

670	27364	92836	09428	61208	74982	36498	32764	81276	01
4986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	70
6723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
591	87364	87265	96710	27630	12673	84769	28743	98127	50
658	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43286	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
676	87698	69876	87698	69876	87612	12341	34867	86798	632
867	43298	65656	56756	56123	32143	14321	32143	14321	321
871	02787	58765	76587	58765	76587	58765	76587	58756	765
75476	76543	54365	36543	54365	36543	54365	36543	54365	543

# *Numbers & Oddities*

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

*Edition #217, October 2015*

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.

Hi and welcome to the 217<sup>th</sup> edition of Numbers & Oddities. This month we have some interesting items for you. First of all the re-discovery of M90 by André and Chris; further part of the M89 transmissions appear to be V26 /M95 and Chris found a number of unscheduled M01c transmissions. Also quite some M21, M41 logs and a more extended Russian military section than usual.

I really must thank several people for their support to UDXF/N&O and for the huge amount of logs. So, THANK YOU JP, Eddy, the Priyom team, André, Chris, Brian, and also Jim & Nick for compiling the UDXF logs. Thanks to all the other contributors. Remember, without your support there would be no UDXF or Numbers & Oddities.

## VOICE STATIONS



E06

### **5186 kHz, 15-10, 2030 UTC**

891 613 20  
14259 22676 32782 32782 76723 89409 12215 74326 64070 90235  
38085 59543 12319 74238 36664 12256 18841 73311 98089 12250  
613 20 00000

### **5197 kHz, 16-10, 2130 UTC**

634 728 20  
14259 22676 32782 32782 76723 89409 12215 74326 64070 90235  
38085 59543 12319 74238 36664 12256 18841 73311 98089 12250  
613 20 00000

### **14943 kHz, 20-10, 1730 UTC**

826 947 50  
31538 23637 23230 82040 32112 46460 82737 34565 09800 10922  
88561 98351 87527 20778 80161 49096 10737 13078 66972 29948  
50041 90185 82283 89645 35623 10501 30566 87923 28047 61301  
45452 54151 55198 62158 00545 10134 70009 72346 40249 92997  
08688 00707 22803 39129 54109 41378 92710 15071 34080 83854  
947 50 00000

### **10204 kHz, 22-10, 1840 UTC**

634 927 51  
98814 58586 48667 01980 42122 30753 38729 53822 85842 56177  
21353 51392 30602 37869 85975 88815 56775 01402 53996 15754  
00917 45838 77142 47939 02218 44743 86310 30162 11166 58246  
95589 75128 77599 42061 91146 26642 60348 64427 59664 20530  
25637 66895 36014 41769 26450 29893 74856 01237 80042 29024  
75856  
927 51 00000

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E07

**9064/10264/11464 kHz, 03-10/07-10, 0600/0620/0640 UTC**

024 1 452 77 452 77  
11564 21284 98191 08247 39680 63644 19627 19591 29702 05677  
02207 86912 96970 77506 08319 16029 06648 22622 53707 57919  
21392 57003 82822 00118 60635 48634 81674 17938 55230 10044  
74443 14738 02742 40446 14348 18877 95223 05400 51597 54644  
11166 91027 13940 33155 12811 12826 75849 29567 85731 36138  
17637 87047 47459 07792 67851 65500 61755 09223 35084 42336  
80546 77293 66402 92182 45330 98655 46462 83100 91362 45761  
24643 55905 67830 50214 01745 58630 86728  
000 000

**10243/9243/7943 kHz, 05-10, 1900/1920/1940 UTC**

229 1 854 37  
27807 27379 91891 88931 10271 48902 42313 31569 69684 94813  
87397 78679 33477 86386 33753 39086 29667 53637 71522 94729  
63125 05541 24971 58668 73811 10114 66488 05669 91738 99234  
27770 39112 94584 73633 23717 84627 17916  
000 000

**10243/9243/7943 kHz, 19-10/21-10, 1900/1920/1940**

229 1 671 28 671 28  
13050 26919 00483 79207 77648 60443 05322 41779 32750 55988  
38093 94491 96379 89850 15102 38808 54284 75142 75068 78042  
85116 27001 16246 51097 54709 34112 16321 48746  
000 000

**9064/10264/11464 kHz, 21-10/28-10, 0600/0620/0640 UTC**

024 1 126 103 126 103  
61108 50645 29725 63751 15766 65141 59625 08447 20688 77038  
77971 22893 57999 36879 84482 25691 30816 41812 98069 21695  
20490 52202 22108 18890 10001 57847 00603 77206 19885 85239  
94335 90465 75446 29173 12288 18748 74888 54339 16152 01214  
56083 81814 81799 20575 84513 20919 85431 69308 23509 39034  
25281 28973 25993 00090 12789 90045 87164 86159 41112 73041  
23786 26985 51506 09653 71180 80923 94430 08514 77709 18131  
62642 22272 64234 54207 38849 37665 37323 30282 51463 75268  
37641 77791 51328 41371 11662 04936 94616 87185 44019 47610  
97552 20758 02129 42730 95444 38463 71946 38571 55100 68575  
49953 81441 14591  
000 000

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E07a

**8144/6944 kHz, 14-10, 2000/2020 UTC**

197 1 14834 8054 31  
14908 55751 98840 03487 27911 95409 94193 31027 73342 38142  
43159 99780 60285 23842 29454 67491 45091 99059 24851 51545  
56549 21323 28678 77399 30639 47284 75840 90550 68945 25370  
40093  
000 000

**11424/10124/8124 kHz, 16-10, 1510/1530/1550 UTC**

411 1 16753 302 97  
55394 25477 64649 31452 69933 93594 32034 30939 48853 50764  
54821 25630 36515 82467 26732 21200 20296 23495 48252 59267  
26666 65667 34798 23889 93515 92258 28235 54560 23410 69846  
30040 74587 33476 94562 26778 95709 53905 97466 52110 57148  
42675 63933 32068 30784 29984 07337 04156 71807 28055 14577  
66510 70070 83582 18563 90656 43061 24901 59246 20499 70887  
77803 01855 11458 54868 27243 16339 63950 15749 66984 45629  
15900 75709 34905 13331 91340 86538 50716 07159 88370 72784  
22611 22019 67837 42604 37823 72702 06131 05772 36037 82573  
44999 20078 79431 24007 98662 45931 98382  
000 000

**11484/12184/13384 kHz, 17-10, 0800/0820/0840 UTC**

413 1 16753 302 97  
55394 25477 64649 31452 69933 93594 32034 30939 48853 50764  
54821 25630 36515 82467 26732 21200 20296 23495 48252 59267  
26666 65667 34798 23889 93515 92258 28235 54560 23410 69846  
30040 74587 33476 94562 26778 95709 53905 97466 52110 57148  
42675 63933 32068 30784 29984 07337 04156 71807 28055 14577  
66510 70070 83582 18563 90656 43061 24901 59246 20499 70887  
77803 01855 11458 54868 27243 16339 63950 15749 66984 45629  
15900 75709 34905 13331 91340 86538 50716 07159 88370 72784  
22611 22019 67837 42604 37823 72702 06131 05772 36037 82573  
44999 20078 79431 24007 98662 45931 98382  
000 000

**8144/6944/5744 kHz, 21-10, 2000/2020/2040 UTC**

197 1 19389 5649 65  
06592 85671 64437 20325 67066 09546 79525 01336 96247 87708  
62159 16822 78749 24845 96046 41860 97669 32127 16304 81179  
49897 58654 64310 20585 66619 77690 38974 24030 61998 48526  
11894 24391 43584 87837 29413 24464 54929 81959 15712 67614  
68667 98766 12343 84877 85651 05956 78309 63367 90060 38631  
82263 82694 42153 01069 01425 76740 68920 66912 18350 84716  
44038 36591 91700 49806 17521  
000 000

**6788/7488/8188 kHz, 22-10, 0430/0450/0510 UTC**

741 1 19389 5649 65

06592 85671 64437 20325 67066 09546 79525 01336 96247 87708

62159 16822 78749 24845 96046 41860 97669 32127 16304 81179

49897 58654 64310 20585 66619 77690 38974 24030 61998 48526

11894 24391 43584 87837 29413 24464 54929 81959 15712 67614

68667 98766 12343 84877 85651 05956 78309 63367 90060 38631

82263 82694 42153 01069 01425 76740 68920 66912 18350 84716

44038 36591 91700 49806 17521

000 000

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*E11/E11α*

**9960 kHz, 05-10/08-10, 0820 UTC**

435/32 Attention

73438 63234 41478 29390 47964 83306 93075 11631 52056 50163

74388 77878 07859 79974 77905 78360 32301 96220 70031 94845

32191 84014 85390 22779 97760 32645 00725 05485 79153 81236

51765 11344

Attention, rpt msg, out

**9399 kHz, 05-10/07-10, 0900 UTC**

533/30 Attention

54595 03908 32431 61422 47594 99088 15241 83215 24484 67407

81926 34855 35687 65625 69206 54286 02924 79743 79977 32512

06968 95786 43303 66587 40563 82920 72716 05504 03623 57443

Attention, rpt msg, out

**15825 kHz, 11-10, 0730 UTC**

355/30 Attention

28961 01627 68881 86284 97702 03567 58179 47730 29764 99634

47465 81760 92724 58577 23284 71378 43714 48762 14258 12807

96210 39642 32573 44878 52228 29788 62307 68626 27854 36984

Attention, rpt msg, out

**10213 kHz, 19-10, 0745 UTC**

264/37 Attention

88983 26150 14916 39796 05774 60797 48866 14637 27494 22632

87168 72223 31485 40500 59025 12873 22310 23785 61516 86323

07376 69517 36863 41449 66275 81884 24027 37580 26725 04225

35243 93622 89165 07356 67546 53623 21419

Attention, rpt msg, out

**10800 kHz, 20-10/22-10, 0645 UTC**

512/32 Attention

97804 42162 16087 23470 55237 21937 25926 25373 46016 60984

70010 34971 05553 91753 84169 22547 92759 86558 11128 69889

92697 46862 66917 85063 81579 09304 58697 84463 75898 74341

86098 52428

Attention, rpt msg, out

**10448 kHz, 21-10/25-10, 1625 UTC**

976/37 Attention

34479 92891 33942 24533 81818 78863 70042 13446 46471 42851  
30190 33849 39418 07662 96309 99651 17423 39436 75080 14427  
03640 05723 85182 90974 17787 85847 65480 90803 11416 77617  
54841 46817 54454 43602 42400 15182 03446

Attention, rpt msg, out

**10690 kHz, 26-10, 0830 UTC**

640/31 Attention

58659 67920 12099 19749 27756 56549 66829 94831 16078 78515  
23257 98563 76796 54411 38091 95238 75253 16615 44646 52203  
15622 49719 66089 87149 09306 25656 72380 69402 03026 62883  
26303

Attention, rpt msg, out

**10221 kHz, 27-10/30-10, 0710 UTC**

633/32 Attention

37661 89487 06154 12620 59658 50063 79288 90774 67815 56103  
76517 63968 96354 37625 92804 38051 20567 19317 14922 77250  
12151 90297 79509 39966 35959 43749 04774 56636 99627 92393  
29006 52285

Attention, rpt msg, out

**10213 kHz, 28-10/31-10, 1705 UTC**

399/35 Attention

66558 21064 60371 13129 22988 35720 91597 26899 28118 53987  
42020 32356 00153 61458 34655 65869 04583 89570 70034 41249  
30924 43315 35825 66665 52246 78583 85333 49691 40498 50214  
72131 59913 62509 96238 75047

Attention, rpt msg, out

**8803 kHz, 29-10, 0930 UTC**

277/33 Attention

08790 80055 22805 53332 02079 66158 09009 34680 49593 36475  
43074 27274 43946 34075 75758 31964 85356 42128 01420 02538  
51282 79666 86388 01652 04462 43072 63770 95809 86577 58255  
68130 16121 58781

**10690 kHz, 30-10, 0830 UTC**

640/31 Attention

58659 67920 12099 19749 27756 56549 66829 94831 16078 78515  
23257 98563 76796 54411 38091 95238 75253 16615 44646 52203  
15622 49719 66089 87149 09306 25656 72380 69402 03026 62883  
26303

Attention, rpt msg, out

**10213 kHz, 03-10, 0530 UTC**

981/10 Attention 99744 42526 10624 42771 94240 84219 55568 48158 06720 41231 Attention, rpt msg, out

**13375 kHz, 03-10, 1400 UTC**

982/10 Attention 57623 29230 01267 63607 18717 76753 88176 91304 68522 56411 Attention, rpt msg, out

**13455 kHz, 03-10, 1810 UTC**

982/10 Attention 48518 23553 90330 41536 64325 65280 82049 01093 13013 05356 Attention, rpt msg, out

**13375 kHz, 06-10, 1400 UTC**

982/10 Attention 51730 28867 60581 78017 73489 92200 51310 44494 21677 81754 Attention, rpt msg, out

**13455 kHz, 10-10, 1810 UTC**

984/10 Attention 63098 17105 74097 78959 49500 07381 28404 25201 97311 71458 Attention, rpt msg, out

**13375 kHz, 13-10, 1400 UTC**

982/10 Attention 92382 73535 70307 70013 56261 65943 25975 99785 08788 39049 Attention, rpt msg, out

**13455 kHz, 17-10, 1810 UTC**

980/10 Attention 84281 98063 71133 80696 21647 96194 50870 98633 33655 48650 Attention, rpt msg, out

**10213kHz, 20-10, 0530 UTC**

981/10 Attention 68776 29933 14311 68968 44894 36131 33756 86751 74940 63505 Attention, rpt msg, out

**13375 kHz, 20-10, 1400 UTC**

982/10 Attention 90508 69307 06602 23829 48860 67258 34519 43508 13988 06749 Attrntion, rpt msg, out

**13455 kHz, 20-10, 1810 UTC**

983/10 Attention 88251 71906 07380 97771 42963 56224 69372 18059 69086 70941 Attention, rpt msg, out

**13455 kHz, 27-10, 1810 UTC**

983/10 Attention 36242 50117 16405 23088 80200 33083 92207 14715 16772 53008 Attention, rpt msg out

**13375 kHz, 31-10, 1400 UTC**

982/10 Attention 94833 63445 81156 10575 54439 73692 24853 88569 30631 37179 Attention, rpt msg, out

**13455 kHz, 31-10, 1810 UTC**

980/10 Attention 11632 81195 24755 91765 98540 83523 62165 40147 88475 88579 Attention, rpt msg, out

*E17z***14269/12930 kHz, 15-10/22-10, 0800/0910 UTC**

674 253 8 52401 63919 92799 14600 74248 48754 65125 41879 253 8 00000

**14269/12930 kHz, 29-10, 0800/0910 UTC**

674 674 674 00000

*G06*

6810 kHz, 05-10, 0800 UTC 329 329 329 00000

4632 kHz, 05-10, 1700 UTC Test at 1653 UTC but no transmission at 1700 UTC. Carrier up till 1710 UTC

5380 kHz, 05-10, 1802 UTC 248 248 248 00000 (2 mins late)

5915 kHz, 07-10, 1200 UTC 248 248 248 00000

5458 kHz, 07-10, 1300 UTC 248 248 248 00000

4632 kHz, 12-10, 1700 UTC 248 248 248 00000

5458 kHz, 14-10, 1300 UTC 248 248 248 00000

6810 kHz, 19-10, 0800 UTC 329 329 329 00000



S06

**15721 kHz, 09-10, 0400 UTC**

480 931 50

86637 68540 13428 54705 70114 41416 39941 21246 89794 57207  
23332 47812 07302 54185 80709 23616 63218 79857 47641 91638  
72801 88328 58681 19854 26888 63534 53312 19680 27647 16792  
77446 22283 13899 32112 63714 48740 55657 57691 22703 34988  
22612 67041 22338 97483 56209 38183 81599 50538 00051 24339  
931 50 00000

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S11a

**9960 kHz, 06-10/09-10, 1020 UTC**

426/37 Vnimanie

71936 05317 88127 38287 38845 76991 41299 51763 40340 84704  
24903 26710 64137 70338 17319 56309 98549 84769 66391 10063  
71058 59010 50872 13261 86798 40617 73598 79272 51990 78423  
15784 38130 66010 08216 66804 84631 05589

Vnimanie, rpt msg, koniec

**7317 kHz, 20-10/23-10, 0915 UTC**

486/34 Vnimanie

51805 11075 41545 39996 09389 15736 70099 87710 50275 58377  
67143 25292 74319 20177 07066 71863 99869 64230 56086 01903  
30641 83634 83926 03950 83828 84815 81597 66276 09552 05338  
82660 63096 27231 25291

Vnimanie, rpt msg, koniec

**16112 kHz, 26-10/29-10, 1015 UTC**

475/32 Vnimanie

69647 37408 84493 86720 47630 57339 36905 36627 56410 59806  
12199 85290 64581 98649 16099 23671 01510 03245 37751 86187  
40428 95875 18011 83412 64883 13635 58460 93777 99664 56134  
86800 68676

Vnimanie, rpt msg, koniec

**5358 kHz, 27-10/30-10, 0455 UTC**

320/31 Vnimanie

39098 37603 36587 07891 67670 24085 89374 69574 22265 04326  
70584 38421 96161 64910 62245 19256 31056 30690 97626 51926  
39297 46310 45168 99425 58228 06920 94330 66538 36573 65068  
43486

Vnimanie, rpt msg, koniec

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## S28 - The Buzzer

Mode: USB  
Frequency: 4625 kHz

**The Buzzer started on 15-10 on parallel frequency 6998 kHz and was still active on 31-10.**

05-10, 0725 UTC	MDZhB 52 478 CIMBIDIUM 9976 8433
05-10, 1046 UTC	MDZhB 73 454 BIL'BOKYe 0503 2167
05-10, 1039 UTC	MDZhB 58 608 TIL'DA 8228 1156
05-10, 0939 UTC	MDZhB 03 736 DIL'DRIN 2902 6982
05-10, 0807 UTC	MDZhB 65 730 GIL'DIYa 6494 8983
06-10, 1325 UTC	Test count 1 2 3 4 5 6 7 8
07-10, 0803 UTC	MDZhB 42 991 SILANOL 7113 5176
07-10, 0724 UTC	MDZhB 33 417 VILAShA 5813 2231
07-10, 0722 UTC	MDZhB 63 646 LILOVYJ 6746 1675
07-10, 0643 UTC	MDZhB 89 362 FILOKARTIYa 6353 8415. Sboj (error) in the beginning
07-10, 0637 UTC	MDZhB 70 809 VILOTA 8490 5732
07-10, 0620 UTC	MDZhB 85 343 BIL'BOKS 2673 4954. Second read is cancelled
14-10, 0627 UTC	MDZhB 30277 BIGOVKA 32214908
14-10, 0638 UTC	MDZhB 44802 FIGIT 09385499 error in reading(sboj)
14-10, 0641 UTC	MDZhB 01973 MIGAZ 49708333
14-10, 0731 UTC	MDZhB 09057 VIVACHYe 74269589
14-10, 0746 UTC	MDZhB 59185 MAL'TIDIT 01511035
14-10, 0905 UTC	MDZhB 25616 97818 01409 24171 63122 LATYSh 42826821
14-10, 0907 UTC	MDZhB 17590 KOGYeYeR 65516426
14-10, 0958 UTC	MDZhB 80731 88542 30468 65438 83832 56322 27696 RASTUN 64763831
14-10, 1001 UTC	MDZhB 28875 FIBROZNYJ 76444372
14-10, 1200 UTC	MDZhB 75355 38570 49922 85787 52466 71503 25209 Naryvnoy 66940375
14-10, 1224 UTC	MDZhB 69128 KASTYeLYaN 20496458 RASSYeV 73774270 VASSAL'NYJ 83193156 VASOVITYJ 34672176
14-10, 1228 UTC	MDZhB 74262 KASTYeLYaN 20496458 VASSAL'NYJ 83193156
15-10, 0937 UTC	MDZhB 81637 DIASPORA 30683162
19-10, 0622 UTC	MDZhB 42393 DIAFAUZA 49005116
19-10, 0631 UTC	MDZhB 42393 DIAPAUZA 49005116 Repeat of the previous failed signal
19-10, 0642 UTC	MDZhB 53508 ChIANURI 40772921
19-10, 0643 UTC	MDZhB 83540 PIANOLO 70867648
19-10, 0648 UTC	MDZhB 60552 DIALOMA 30525981
19-10, 0653 UTC	MDZhB 03541 DIAKARB 29535623
19-10, 0735 UTC	MDZhB 20176 VIADUK 41466706
19-10, 0958 UTC	MDZhB 61085 VZYaTOK 58107249
19-10, 1222 UTC	MDZhB 08286 AZURIJ 37110328
19-10, 1223 UTC	MDZhB 21819 VZRYShNIK 22055941 Sboj (error) in the beginning
19-10, 1258 UTC	MDZhB 40606 VZRAShchYeNIYe 38196525
20-10, 1441 UTC	MDZhB 11060 OZORA 42785908
20-10, 1452 UTC	MDZhB 89954 OZONID 76502887
20-10, 1456 UTC	MDZhB 67903 IZOZOMA 40131723
20-10, 1531 UTC	MDZhB 97629 IZOBATA 62653229
20-10, 1541 UTC	MDZhB 95713 VZODRANIYe 76040213
20-10, 1546 UTC	MDZhB 72121 IZOGALINA 29778268
21-10, 0920 UTC	MDZhB 28850 VZMYeTNOST' 01766552
21-10, 0930 UTC	MDZhB 10505 UZKIJ 03694782
21-10, 0932 UTC	MDZhB 57329 VZDYeRZhKA 29672439
21-10, 0939 UTC	MDZhB 02630 IZGOLUBA 95050338
21-10, 0947 UTC	MDZhB 49456cVZVOZ 54043163
21-10, 1007 UTC	MDZhB 30809 IZACHYeN 78377002
21-10, 1347 UTC	MDZhB 85958 AZARINA 92317566
21-10, 1522 UTC	MDZhB 98739 YeZhYeMUHA 84507272
21-10, 1543 UTC	MDZhB 87602 DZhYeMPYeR 13483324
21-10, 1545 UTC	MDZhB 52598 DZhAVYeC 53135009 part of other signal read can be heard in the beginning

21-10, 1605 UTC	MDZhB 45203 VYeShNIJ 52388698 (female voice on background)
21-10, 1630 UTC	MDZhB 98385 NYeChUTKOST' 86929878
22-10, 1124 UTC	MDZhB 92953 VYeChYeYa 26262962 PYeHOTINYeC 66555011
22-10, 1233 UTC	MDZhB 21816 SYeUNCh 27123459
22-10, 1234 UTC	MDZhB 37104 NYeUMNYJ 67703294
23-10, 1212 UTC	MDZhB 33668 CYeTRARIJ 98287654
23-10, 1214 UTC	MDZhB 14332 MYeTROKIN 79081670
23-10, 1217 UTC	MDZhB 62229 VYeTOHA 06557092
23-10, 1224 UTC	MDZhB 28638 LYeTOPICYeC 48922408
23-10, 1227 UTC	MDZhB 64306 VYeTIVYeNOK 23783591
23-10, 1254 UTC	MDZhB 10147 MYeTIACIL 80137846
23-10, 1450 UTC	MDZhB 56512 PYeTYeL'ShchIK 20619486
25-10, 1250 UTC	MDZhB 38673 NYeTVYeRDYJ 39120447
25-10, 1252 UTC	MDZhB 90063 PYeTALIT 57851186
25-10, 1419 UTC	MDZhB 69760 MYeTAKSIT 28392100
26-10, 0532 UTC	MDZhB 97822 NYeSUSShchIJ 36983417
26-10, 0753 UTC	MDZhB 36759 FYeSTUKA 67263463
26-10, 1235 UTC	MDZhB 92014 BYeSSChYeTNYJ 04857799
26-10, 1414 UTC	MDZhB 86481 VESSOUyZNYJ 65101139
28-10, 1540 UTC	MDZhB 63926 LYeSOHIMIYa 52269099
28-10, 1551 UTC	MDZhB 02236 NYeSOVKA 83025191
28-10, 1714 UTC	MDZhB 59083 BYeSNOVATYJ 13206622
29-10, 0916 UTC	MDZhB 91549 VYeSLYeNIK 54676508
29-10, 1252 UTC	MDZhB 80614 VYeSLATA 47955331
29-10, 1325 UTC	MDZhB 68040 MYeSIL'ShchIK 39354765
30-10, 0733 UTC	MDZhB 43541 VYeRShADYeC 90294576
30-10, 0746 UTC	MDZhB 27036 ZYeRNOFURAZh 50181244
30-10, 0751 UTC	MDZhB 66875 KYeRNIT 91815772 Sboj (error) in reading
30-10, 0808 UTC	MDZhB 52223 PYeRLOVICA 99899604
30-10, 0812 UTC	MDZhB 58750 TYeRKA 56018520



## S30 - The Pip

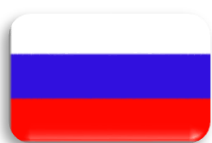
Modes: CW (Pip), USB (messages)  
Frequencies: 3756 kHz (night), 5448 kHz (day)

5448 kHz, 01-10, 1411 UTC	8S1Shch 55 184 ZAHOLUST'Ye 5803 1184
5448 kHz, 02-10, 1425 UTC	8S1Shch 94 151 BOTVUSHKA 1524 2815
3756 kHz, 03-10, 1859 UTC	BO6C F56Shch 9GSA ZhBZI 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR
5448 kHz, 04-10, 1507 UTC	V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch'
5448 kHz, 05-10, 0437 UTC	S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3
5448 kHz, 05-10, 1632 UTC	Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZI
5448 kHz, 05-10, 1509 UTC	8S1Shch 49 075 STRYeLA 2345 6783
5448 kHz, 05-10, 1354 UTC	49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNSHch
5448 kHz, 06-10, 1442 UTC	8S1Shch 36 548 KALIL'ShchIK 6148 3932
5448 kHz, 06-10, 1433 UTC	8S1Shch 68 829 ZYeNITNYJ 8316 3380
5448 kHz, 06-10, 1430 UTC	8S1Shch 85 912 UMYVAL'NIK 1429 1988
5448 kHz, 06-10, 1427 UTC	8S1Shch 02 838 MASTODONT 4558 6261
5448 kHz, 06-10, 1425 UTC	8S1Shch 17 262 IDKU 9930 5785
5448 kHz, 06-10, 1423 UTC	8S1Shch 22 982 IBYeR 4642 9924
5448 kHz, 06-10, 1417 UTC	5J7Shch 04 358 VYROZhDYeNIYe 4453 3110
5448 kHz, 06-10, 1409 UTC	8S1Shch 60 365 NOVOTRON 9743 3335
5448 kHz, 08-10, 1429 UTC	8S1Shch 23 288 98 976 KYuRIT 8509 1473
5448 kHz, 10-10, 1644 UTC	DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1
5448 kHz, 14-10, 0533 UTC	S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3
5448 kHz, 14-10, 0618 UTC	8S1Shch 11393 LASHMAN 00233146
5448 kHz, 14-10, 0641 UTC	8S1Shch 63796 MORIL'ShchIK 99440877
5448 kHz, 14-10, 0733 UTC	8S1Shch 28750 BOMBONA 07659470

5448 kHz, 14-10, 0741 UTC	8S1Shch 29107 ORTROFIN 43824675
5448 kHz, 14-10, 1511 UTC	49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNSHch
5448 kHz, 15-10, 1438 UTC	TshchSchchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ
5448 kHz, 16-10, 1303 UTC	8S1Shch 18841 LYePYeShNIK 91041580
3756 kHz, 17-10, 1639 UTC	ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh
5448 kHz, 19-10, 0458 UTC	49FT 90553 OGOROSheNYJ 25732590
5448 kHz, 19-10, 0459 UTC	49FT 58362 ELIZAR 18342007
5448 kHz, 19-10, 0527 UTC	37CN MUDR 7VNSHch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C
5448 kHz, 19-10, 0621 UTC	8S1Shch 73167 VYeRTOGRAD 52760736
5448 kHz, 19-10, 0633 UTC	8S1Shch 42027 HUNGARA 93356323
5448 kHz, 19-10, 0636 UTC	8S1Shch 55951 TYeVONDA 74516243
5448 kHz, 19-10, 0646 UTC	8S1Shch 72400 PODKLADNOJ 87840612
5448 kHz, 19-10, 0649 UTC	8S1Shch 10345 LIVNICA 18885958
5448 kHz, 19-10, 0730 UTC	8S1Shch 98789 DYeLIMIN 05405595
5448 kHz, 19-10, 1211 UTC	8S1Shch 38573 RAZGRAFKa 48436019
5448 kHz, 19-10, 1220 UTC	8S1Shch 18140 GRIVACHi 21388436
5448 kHz, 19-10, 1258 UTC	8S1Shch 00350 VOLNORYeZ 27772500
5448 kHz, 19-10, 1421 UTC	8S1Shch 87503 SLICHATYeL' 12650918
5448 kHz, 19-10, 1441 UTC	8S1Shch 66508 AGROTYeHNIYa 82906206
5448 kHz, 19-10, 1454 UTC	8S1Shch 57684 PRISTAVShchIK 87036826
5448 kHz, 19-10, 1459 UTC	8S1Shch 67608 TYeRMINATOR 28814622
5448 kHz, 20-10, 0458 UTC	NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSHchJ 27Shch' N1DU
3756 kHz, 20-10, 1412 UTC	53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG
3756 kHz, 20-10, 1537 UTC	8S1Shch 36236 YeHIDSTVO 89358438
3756 kHz, 20-10, 1543 UTC	8S1Shch 90461 MYeRChISON 33647804
3756 kHz, 20-10, 1653 UTC	8S1Shch 33497 KANKA 90351568
3756 kHz, 20-10, 1824 UTC	Z'1B CI9V ZhSK4 HZ5T 5FSSHch 8MUO TUZR 5J7Shch DMC3 49FT
5448 kHz, 21-10, 0526 UTC	C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNSHch Zh7NZh
5448 kHz, 21-10, 1344 UTC	8S1Shch 23406 NYeVZhIVANIYe 93974515
3756 kHz, 21-10, 1520 UTC	8S1Shch 29944 PRYeLYuTYJ 97075719
3756 kHz, 21-10, 1535 UTC	8S1Shch 06416 IZYeR 24702469
3756 kHz, 21-10, 1626 UTC	8S1Shch 57178 MOTOVAGON 54514262
3756 kHz, 21-10, 1804 UTC	3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS
5448 kHz, 22-10, 1338 UTC	8S1Shch 39983 ANTROINAYa 08006108
3756 kHz, 22-10, 1653 UTC	'O6P Y8VM 6I2Zh 8CSHchJ 27Shch' N1DU 53OB 78MV DEAY JH'J
5448 kHz, 23-10, 1408 UTC	8S1Shch Weather warning: 24.10.15 i v pervoy polovine 25 oktyabrya mestami v Rostovskoy oblasti i v tom chisle v Rostove-na-Donu ozhidayutsya ochen' sil'nyye dozhdj. 24 oktyabrya na Chernomorskom poberezh'ye ot Anapy do Sukki mestami ozhidayutsya ochen' sil'nyye dozhdj, intensivnyye livni (10/24/15 In the first half of 25 October heavy rain is expected in several places in the Rostov region, including in Rostov-on-Don. On 24 October heavy rain and severe rain storms are expected at the Black Sea coast from Anapa to Sukkah.)
5448 kHz, 23-10, 1450 UTC	8S1Shch 92674 PULYeMYeTChIK 24196133
5448 kHz, 23-10, 1905 UTC	OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV
5448 kHz, 24-10, 1450 UTC	L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSHchJ
5448 kHz, 25-10, 1240 UTC	8S1Shch 03207 OKSAZOLON 32375015
5448 kHz, 25-10, 1414 UTC	8S1Shch 87996 STANOVShchIK 23686387
5448 kHz, 25-10, 1600 UTC	DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR
3756 kHz, 26-10, 1714 UTC	V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSHchJ 27Shch' N1DU 53OB 78MV
5448 kHz, 26-10, 0533 UTC	8S1Shch 56125 NYeUMYeSTNYJ 11073771
5448 kHz, 26-10, 1233 UTC	8S1Shch 79966 RASCYeNSHchIK 90134883
5448 kHz, 26-10, 1335 UTC	KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27
5448 kHz, 26-10, 1413 UTC	8S1Shch 16959 SALASA 86198627
5448 kHz, 27-10, 0546 UTC	DEAY JH'J 12CI 9AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V
3756 kHz, 28-10, 1542 UTC	8S1Shch 75932 OTBROSNYJ 17837379
3756 kHz, 28-10, 1553 UTC	8S1Shch 79329 DICIAN 34487407
3756 kHz, 28-10, 1650 UTC	ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF
3756 kHz, 28-10, 1721 UTC	8S1Shch 30739 OFTAL'MIYa 24202611
3756 kHz, 28-10, 1830 UTC	61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM
5448 kHz, 29-10, 0529 UTC	6I2Zh 8CSHchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ
5448 kHz, 29-10, 1252 UTC	8S1Shch 03569 KANTILYeNA 32256976

5448 kHz, 29-10, 1307 UTC ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO  
5448 kHz, 29-10, 1323 UTC 8S1Shch 64595 ShUFLA 55445940

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## S32 - Squeaky Wheel

Mode: USB

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

3828 kHz, 04-10, 1832 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07  
3828 kHz, 06-10, 2129 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39  
3828 kHz, 06-10, 1620 UTC ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34  
3828 kHz, 06-10, 1539 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39  
3828 kHz, 06-10, 1447 UTC AL'FA-45 00 449 GLIZANTIN 7545 2342  
3828 kHz, 06-10, 1435 UTC AL'FA-45 11 150 UHOZh' 6590 8406  
5473 kHz, 06-10, 1432 UTC AL'FA-45 13 651 RAZRYeZKA 7613 5937 with S30 in the background  
5473 kHz, 06-10, 1428 UTC AL'FA-45 94 104 AVYeRS 5128 6373 with S30 in the background  
5473 kHz, 06-10, 1414 UTC AL'FA-45 17 996 PANORAMNYJ 0230 3641  
3828 kHz, 07-10, 1504 UTC SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27  
3828 kHz, 11-10, 1527 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07  
3828 kHz, 14-10, 1621 UTC AL'FA-45 20204 PALCCO 25780836  
3828 kHz, 16-10, 0723 UTC RUZh'E-26 BIZON-64  
5473 kHz, 19-10, 0625 UTC AL'FA-45 29756 GYeLDRIYeC 21837063  
5473 kHz, 19-10, 0640 UTC AL'FA-45 19999 NYeBYTIYe 60479478  
5473 kHz, 19-10, 0642 UTC AL'FA-45 38357 LUAPULA 93255060  
5473 kHz, 19-10, 0651 UTC AL'FA-45 84498 ATTYa 06673803  
5473 kHz, 19-10, 0653 UTC AL'FA-45 06404 KULUMBARIJ 31376658  
5473 kHz, 19-10, 1223 UTC AL'FA-45 74987 ELYeKTROBUS 23285441  
5473 kHz, 19-10, 1226 UTC AL'FA-45 83886 TVORKA 64428358  
5473 kHz, 19-10, 1301 UTC AL'FA-45 74485 FARCOVShchIK 31636798  
5473 kHz, 19-10, 1325 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39  
5473 kHz, 19-10, 1417 UTC AL'FA-45 36393 SFYeROID 91699998  
5473 kHz, 19-10, 1445 UTC AL'FA-45 38910 KUShACHNYJ 37377571  
5473 kHz, 20-10, 0758 UTC SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27  
3828 kHz, 20-10, 1541 UTC AL'FA-45 34901 SOLONICA 44100498  
3828 kHz, 20-10, 1549 UTC AL'FA-45 09709 ESTADIL 66613495  
5473 kHz, 20-10, 1730 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32  
3828 kHz, 21-10, 1530 UTC AL'FA-45 06253 NALIVChATYJ 65621315 with S30 in the background  
3828 kHz, 21-10, 1535 UTC AL'FA-45 69587 MONTRYeL 12455243  
3828 kHz, 21-10, 1540 UTC AL'FA-45 59654 POPIRANIYe 70175407 with S30 in the background  
3828 kHz, 21-10, 1632 UTC AL'FA-45 17726 KOKVIMBIT 22943449 with S30 in the background  
3828 kHz, 21-10, 2032 UTC AL'FA-45 57522 KUVAR 96619151 with S30 in the background  
5473 kHz, 22-10, 1343 UTC AL'FA-45 78586 VYeRUHA 08059705 error while reading  
3828 kHz, 22-10, 1730 UTC KURGAN-40 DUBLYoR-68 STUPA-32 ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34  
3828 kHz, 22-10, 1806 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 SLIVA-94 LANDYSh-74 STAZhER-29  
ALEUT-09 ZASLONKA-27  
5473 kHz, 26-10, 1440 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39 with S30 in the background  
5473 kHz, 26-10, 1414 UTC AL'FA-45 26811 VYeLYeN' 92793986 with S30 in the background  
5473 kHz, 26-10, 0538 UTC AL'FA-45 03192 GYeLYeBINBON 02147018 first read has failed due to line failure  
5473 kHz, 25-10, 1418 UTC AL'FA-45 80402 RYeVYeNNYJ 50622378  
5473 kHz, 25-10, 1300 UTC AL'FA-45 83910 BOLYuGA 97551918  
5473 kHz, 24-10, 1733 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32  
5473 kHz, 24-10, 1403 UTC ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34  
5473 kHz, 23-10, 1503 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39 RUZh'E-26 BIZON-64 PYeSOChNYJ-21  
ShULER-60 PENZA-07  
5473 kHz, 23-10, 1454 UTC AL'FA-45 51151 LYeSISTYJ 39121505  
3828 kHz, 23-10, 1440 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39 RUZh'E-26 BIZON-64 PYeSOChNYJ-21  
ShULER-60 PENZA-07  
5473 kHz, 24-10, 1403 UTC ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34

5473 kHz, 24-10, 1733 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32  
 5473 kHz, 25-10, 1300 UTC AL'FA-45 83910 BOLYuGA 97551918  
 5473 kHz, 25-10, 1418 UTC AL'FA-45 80402 RYeVYeNNYJ 50622378  
 5473 kHz, 26-10, 0538 UTC AL'FA-45 03192 GYeLYeBINBON 02147018 first read has failed due to line failure  
 5473 kHz, 26-10, 1414 UTC AL'FA-45 26811 VYeLYeN' 92793986 with PIP (S30) on background  
 5473 kHz, 26-10, 1440 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 with  
 3828 kHz, 28-10, 1542 UTC AL'FA-45 65654 FRYeZYeROVShchIK 20939389  
 3828 kHz, 28-10, 1553 UTC AL'FA-45 06959 NYeVYeShVANIYe 45744358  
 3828 kHz, 28-10, 1714 UTC AL'FA-45 22991 CIBULYa 90569182 with PIP (S30) on background  
 3828 kHz, 28-10, 1943 UTC ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34  
 3828 kHz, 29-10, 2022 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 RUZh'E-26 BIZON-64 PYeSOChNYJ-21  
 ShULER-60 PENZA-07 PIP (S30) on background  
 5473 kHz, 29-10, 1255 UTC AL'FA-45 94869 BAVYuLON 00974735  
 5473 kHz, 29-10, 1327 UTC AL'FA-45 64170 FRAZIROVKA 82585615 error in second read

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## S3850

Frequency: 3850 kHz  
 Mode: USB

A couple of very nice catches from DJ Peter.

3850 kHz, 06-10, 2259 UTC Pilot-28, Pilot-28, Ya Baron-78, moskovskoye vremya 1 chas  
 (Pilot-28, Pilot-28, here is Baron-78. Moscow Time 1:00)  
 3850 kHz, 07-10, 0329 UTC Pilot-28, ya Baron-78 oksazolon 80971297

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## S4525

Frequency: 4525 kHz  
 Mode: USB

Channel marker (dash) heard on:

03-10, 1646 UTC      19-10, 1842 UTC      28-10, 1825 UTC

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## S5292

Frequency: 5252 kHz  
 Mode: USB

11-10, 1329 UTC FAZAN-37 48920 VAKUOL' 38469954  
 19-10, 1235 UTC SYeKRYeT-39 36941 DOSTATOK 24166383  
 19-10, 1237 UTC RYeGATA-75 89234 RYeMONT 28234479  
 19-10, 0800 UTC BARZhA-08 18746 PROTIVEN' 17633843 (Sound of printing device on background, count before the signal)  
 21-10, 1230 UTC BOYeC-43 04698 UPROShchYeNIYe 27463932  
 22-10, 1402 UTC SYeKRYeT-39 57803 UMOLShchIK 27361192  
 22-10, 1405 UTC RYeGATA-75 59840 BAGUL'NIK 23728473  
 25-10, 1157 UTC FAZAN-37 46754 KURAGA 27229842  
 28-10, 0909 UTC BARZHA-08 BOYeC-43 26382 DISCIPLINA 16358758  
 28-10, 1244 UTC RYeGATA-75 35812 VAZhNOST' 35786532  
 28-10, 1259 UTC BOYeC-43 35812 VAZhNOST' 35786532

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V02a

Dirección General de Inteligencia

7554 kHz, 08-10, 2026 UTC YL/SS in LSB announcing 5FGs with pause after every 10 groups. Should be M08a  
 7554 kHz, 29-10, 1959 UTC Atencion YL/SS announcing 3 callup groups into traffic. Too noisy to copy. Ends at 2039 UTC.  
 Should be M08a



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

**Frequencies:** 7654, 7688, 8300, 9276, 9522, 9725, 10182, 10522, 11430, 13750, 15388 kHz

**Partly unconfirmed new schedules. Please let us know if you hear the station.**

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



V21

Cuban Babbler

5637 kHz, 16-10, 1330 UTC Cuban Babbler reading series of figures



V26

8073 kHz

We investigated the transmissions on 8073 kHz (logged by JPL) that appeared in the M89 column in the past few months. The mixture of voice callup, 4+4 QPSK modem, morse and voice traffic appears to be V26 and M95, not M89. The 4+4 modem does not have a designator of its own. For the time being we will call these Q26.

7553 kHz, 30-09, 1014 UTC	4LGs
8073 kHz, 01-10, 0028 UTC	XSV85 voice traffic, male operator
8073 kHz, 02-10, 1132 UTC	XSV85 voice traffic, female operator
8073 kHz, 03-10, 0001 UTC	XSV85 voice callup, male operator
8073 kHz, 03-10, 0039 UTC	XSV85 voice traffic, male operator
8073 kHz, 05-10, 1159 UTC	XSV85 voice traffic, female operator
8073 kHz, 06-10, 0001 UTC	XSV85 voice callup, male operator
8073 kHz, 06-10, 0017 UTC	XSV85 voice traffic, male operator
8073 kHz, 06-10, 1130 UTC	XSV85 voice callup, female operator
8073 kHz, 07-10, 0001 UTC	XSV85 voice callup, male operator
9054 kHz, 07-10, 0005 UTC	Mechanical female
8073 kHz, 07-10, 0015 UTC	XSV85 voice traffic, female operator



7553 kHz, 07-10, 0859 UTC	female voice traffic
8073 kHz, 07-10, 1129 UTC	XSV85 voice callup, male operator
8073 kHz, 08-10, 0020 UTC	XSV85 voice traffic, male operator
8073 kHz, 09-10, 1128 UTC	XSV85 voice traffic, male operator
8073 kHz, 10-10, 0001 UTC	XSV85 voice traffic, male operator
7553 kHz, 10-10, 0908 UTC	Female voice traffic
7553 kHz, 10-10, 0913 UTC	Female voice i.p.
8073 kHz, 10-10, 1209 UTC	XSV85 voice traffic, male operator
8073 kHz, 11-10, 1131 UTC	XSV85 voice callup, male operator
8073 kHz, 11-10, 1156 UTC	XSV85 voice traffic, male operator
8073 kHz, 12-10, 0037 UTC	XSV85 voice traffic, female operator
8073 kHz, 13-10, 0001 UTC	XSV85 voice traffic, male operator
7553 kHz, 13-10, 1002 UTC	i.p. female voice
8073 kHz, 13-10, 1129 UTC	XSV85 voice traffic, female operator
8073 kHz, 14-10, 1129 UTC	XSV85 voice callup, male operator
8073 kHz, 15-10, 0001 UTC	XSV85 voice callup, male operator
8073 kHz, 15-10, 0023 UTC	XSV85 voice repeat of M95 and Q26
8073 kHz, 16-10, 0001 UTC	XSV85 voice callup, male operator
7553 kHz, 16-10, 0948 UTC	i.p. female voice //9153 kHz USB
9153 kHz, 16-10, 0948 UTC	i.p. female voice //7553 kHz USB
8073 kHz, 16-10, 1129 UTC	XSV85 voice callup, male operator
8073 kHz, 17-10, 1129 UTC	XSV85 voice callup, male operator
8073 kHz, 23-10, 1130 UTC	XSV85 voice callup, male operator
8073 kHz, 25-10, 0001 UTC	XSV85 voice callup, male operator
8073 kHz, 25-10, 1130 UTC	XSV85 voice callup, male operator
7553 kHz, 26-10, 0920 UTC	Message USB
8073 kHz, 27-10, 1130 UTC	XSV85 voice callup, male operator
8073 kHz, 28-10, 0001 UTC	XSV85 voice callup, female operator
8073 kHz, 28-10, 1129 UTC	XSV85 voice callup, female operator
8073 kHz, 30-10, 0001 UTC	XSV85 voice callup, male operator
8073 kHz, 30-10, 1130 UTC	XSV85 voice callup, male operator
8073 kHz, 30-10, 1223 UTC	XSV85 voice traffic, male operator

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## *VC01 - Chinese Robot* *Chinese Air Defense*

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

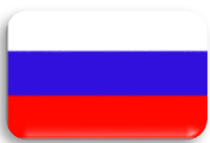
3036, 3749, 3837, 4075, 4140, 4165, 4175, 4180, 4258, 4343, 4410, 4422, 4427, 4480, 4530, 4580, 4726.5, 5114, 5172, 5195, 5232, 5288, 5303, 5328, 5330, 5343, 5393, 5461, 5466, 5471, 5592, 5700, 5740, 5742, 5799, 5802, 5820, 5832, 5892, 6209, 6479, 6771, 6840, 6858, 6860, 6949, 6960, 7090, 7351, 7608, 7684, 7726, 7739, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 7938, 8000, 8025, 8046, 8170, 8346, 8779, 9000, 9129, 9132, 9169, 9192, 9290, 9340, 10508, 17392 kHz.

Log:

5172 kHz, 10-10, 1645 USB

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## MORSE STATIONS



MX

### Russian Military beacons

#### Current cluster frequencies:

3594, 4558, 5154, 7039/7508, 8495, 10872, 13528, 16332, 20048 kHz

#### Other frequencies:

L 5156.8, 6917.5, 8497.8 kHz

V 3658, 4150, 6809, 6928, 7027.5 kHz

R 5466 kHz

W, R, N, G, C, K, Z, L, V, Ü 5620, 5835, 8029, 8112, 8162, 8895 kHz (Tu-Bear net)

#### Cluster beacon slots:

.7 "D", Sevastopol

.8 "P", Kaliningrad

.9 "S", Severomorsk

.0 "C", Moscow

.1 "A", Astrakhan (inactive)

.2 "F", Vladivostok

.3 "K", Petropavlovsk Kamchatskiy

.4 "M", Magadan

6928.0 kHz, 01-10, 1723 UTC, Beacon V

8497.8 kHz, 10-10, 1713 UTC, Beacon L

6928.0 kHz, 16-10, 2020 UTC, Beacon V

6928.0 kHz, 19-10, 1845 UTC, Beacon V

8497.8 kHz, 19-10, 1846 UTC, Beacon L

5156.8 kHz, 19-10, 1850 UTC, Beacon L

3658.0 kHz, 19-10, 1921 UTC, Beacon V

6928.0 kHz, 20-10, 2150 UTC, Beacon V

8497.8 kHz, 20-10, 2150 UTC, Beacon L

3658.0 kHz, 20-10, 2153 UTC, Beacon V

3658.0 kHz, 26-10, 2320 UTC, Beacon V

7091.5 kHz, 26-10, 2325 UTC, Beacon V

3168.4 kHz, 26-10, 2340 UTC, Beacon L

3658.0 kHz, 27-10, 1737 UTC, Beacon V

3168.4 kHz, 27-10, 1738 UTC, Beacon L

5156.8 kHz, 27-10, 1743 UTC, Beacon L

8497.8 kHz, 27-10, 1744 UTC, Beacon L

7091.5 kHz, 27-10, 1843 UTC, Beacon V

8821.0 kHz, 30-10, 0830 UTC, Beacon S

8497.8 kHz, 30-10, 1728 UTC, Beacon L



### M01 / M01a / M01b / M01c

Chris logged a number of unscheduled M01c transmissions. Thanks for sharing them.

#### M01c, 5041 kHz, 05-10, 1208 UTC

111 333 111 999 574 10 =

13200 37209 76199 01920 89425 91381 19121 43319 44007 69424 =

574 10 111 000

#### M01c, 4479 kHz, 06-10, 1425 UTC

745 745 745 2916 2916 2916 745 745 745 111 111 =

103 10 =

5..25 96543 24967 34480 45580 43842 13468 64889 57213 63783 =

103 10 000

111 333 950 51 111 333 673 22 333 111 333 4580

#### M01c, 4347 kHz, 09-10, 0848 UTC

823 823 823 823 138 69 138 69 13103 111

333 13103 13103 333 13103 13103



**M01c, 4130 kHz, 09-10, 0753 UTC**

981 981 981 981 981 938 86 938 86  
981 981 981 931 28 931 28 111  
333 94767 94767 333 94767 96767 (R)  
333 94179 94179 (R)  
333 95985 95985 (R)  
333 96353 96353 (R)  
981 981 333 96777 96777 (R)  
333 96182 96182 (R)  
981 981 981 111 000

**M01c, 4130 kHz, 09-10, 0753 UTC**

981 981 981 981 981 938 86 938 86  
981 981 981 931 28 931 28 111  
333 94767 94767 333 94767 96767 (R)  
333 94179 94179 (R)  
333 95985 95985 (R)  
333 96353 96353 (R)  
981 981 333 96777 96777 (R)  
333 96182 96182 (R)  
981 981 981 111 000

**M01c, 4347 kHz, 09-10, 0848 UTC**

823 823 823 823 138 69 138 69 13103 111  
333 13103 13103 333 13103 13103

**M01d, 8819 kHz, 13-10, 1116 UTC**

51 444 51 444 51  
444 3693 3693 69  
51 444 51 444 51 444  
111 111 000 000  
753 753 753 753  
000 101 000 15  
48081 44780 54321 98123 45910 81437 89219 12345 05439 98183 00101  
753 753 00101 00010  
48081 44780 54321 98123 45910 81487 89219 12345 05439 98183 00101

**M01b?, 9129 kHz, 15-10, 0530 UTC**

498 498 498 535 20 535 20 (R)  
498 498 498 525 43 525 43 (R)  
No message.

**M01b?, 6811 kHz, 15-10, 0800 UTC**

723 723 723 621 81 621 81 (R)  
No message.

**M01, 5475 kHz, 15-10, 1800 UTC**

463 507 30 = =  
31581 05316 01697 00683 54628 79433 44390 07709 92097 47332  
74842 40868 55676 47584 86256 92345 38143 97595 71206 12891  
65700 11586 94090 45862 93426 82090 38329 59702 82031 06657  
= = 507 30 000

**M01, 5020 kHz, 15-10, 000 UTC**

463 903 30 = =  
88672 12264 39112 68257 02410 75866 53119 14200 68046 88395  
94831 45333 75004 26279 72157 27854 50174 70357 52557 14722  
72460 36423 32426 77998 15246 69535 69667 35075 38256 17833  
= = 903 30 000

**M01, 6510 kHz, 18-10, 0700 UTC**

463 (R) 937 937 30 30 = =  
33989 33989 79838 79838 25386 25386 94967 94967 99312 99312  
54786 54786 76943 76943 74828 74828 77048 77048 78665 78665  
78299 78299 75007 75007 94589 94589 64879 64879 23019 32019  
75266 75266 15261 15261 09411 09411 73878 73878 54310 54317  
22927 22927 90508 90508 97533 97533 34548 34548 51021 51021  
09687 09687 53716 53716 92382 92382 58509 58509 54743 54743  
= = 937 937 30 30 00000

**M01c, 4313 kHz, 21-10, 1200 UTC**

873 873 873 882 44 882 44

**M01c, 3812 kHz, 21-10, 1208 UTC, i.p.**

... 57396 72096 12307 98956 91738 60667 71250 33310  
26519 17449 43947 11852 18187 36290 53695 08805 97113 25489  
68110 28550 54981 28616 00612 63420 08260 60231 62562 14787  
01620 11733 12784 90205 21645 91098 09948 28915 40341 14736  
46164 26810 32261 33836 53275 21075 =  
146 76 000 333 111 32593 000

**M01b, 4605 kHz, 22-10, 1835 UTC**

201 201 201 531 531 33 33 = =  
96379 81285 ... 41757 60228 = =  
531 531 33 33 000

**M01c, 4036 kHz, 26-10, 0724 UTC**

618 618 618 618 919 39 919 39  
618 618 618 911 33 911 33  
333 03  
111 999  
111 10 =  
80399 45644 16610 21773 51259 73128 18193 14371 05406 89085 =  
111 10 111 = 80399 111 000

**M01c, 4164 kHz, 26-10, 0758 UTC**

386 386 386 239 17 239 17  
333 00  
30409  
303 05  
111 000

**M01, 5475 kHz, 27-10, 1800 UTC**

463 (R) 617 617 30 30 = =  
37658 37658 29016 29016 53870 53870 19166 19166 91690 91690  
76291 76291 86817 86817 46992 46992 71092 71092 78781 78781  
12816 12816 33926 33926 09339 09339 61342 61342 82690 82690  
93473 93473 95191 95191 39054 39054 78430 78430 94458 94458  
46335 46335 26819 26819 40156 40156 42211 42211 24121 24121  
15375 15375 91203 91203 98981 98981 25187 25187 43242 43242  
= = 617 617 30 30 00000

**M01c, 4901 kHz, 28-10, 1000 UTC**

520 520 520 282 58 282 58  
999 580 10 =  
09437 43547 58043 10235 36245 97906 62713 02313 91550 46296 =  
580 10  
111 000

**M01, 5475 kHz, 29-10, 1800 UTC, VVV at 1748 UTC**

463 (R) 211 211 30 30 = =  
84417 84417 24889 24889 02698 02698 76020 76020 83545 83545  
27730 27730 70308 70308 47353 47353 78053 78053 77378 77378  
20046 20046 17346 17346 58760 58760 \*8438 \*8438 96211 96211  
15108 15108 26\*24 26\*24 12152 12152 04379 04279 52177 52177  
18158 18158 98182 98182 99427 99427 94482 94482 47870 47870  
79820 79820 98971 98971 71975 71975 48114 48114 97967 97967  
= = 211 211 30 30 000

**M01c, 3944 kHz, 29-10, 1411 UTC, i.p.**

... 60893 47529 41853 66865 10058 42922 17133 57595 03154  
460262 8847 23015 98470 77986 83303 73827 53063  
= 253 18 000

**M01, 6260 kHz, 30-10, 1500 UTC**

463 332 30 =  
47160 64033 68025 00809 07654 34559 26017 64929 53056 74972  
55391 94149 29726 60011 07188 21258 09273 37887 66697 14016  
03238 9470. 40194 35161 78772 50391 23019 21905 96563 35570  
= 332 30 000

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M03

**9150 kHz, 01-01, 1320 UTC**

438/37 = =  
51466 03658 25953 97984 80136 01586 28231 81904 80944 53393  
94204 60894 37886 53617 76209 24557 45603 14488 43506 26524  
38072 01846 39038 27157 66021 82010 55555 82173 32425 33664  
27639 06355 16090 47340 42249 89848 97321 = =  
438/37 = = rpt msg = = 000  
VVV at 1313 UTC

**5463 kHz, 19-10, 1320 UTC**

540/37 = =  
44826 01888 94222 93507 18324 64708 55371 28303 11667 44233  
98289 27191 91514 54351 88205 81512 78471 12660 92339 19483  
98042 26604 47933 43238 30741 28643 30923 63253 31832 08584  
84618 08159 76465 13644 74968 51609 62993 = =  
540/37 = = rpt msg = = 000

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*M08a*

*Dirección General de Inteligencia*

**M08a oddities**

8009 kHz, 05-10, 2257 UTC	UNDUA stops then RAWDA GUGRN TRDGN into tfc
8009 kHz, 10-10, 2301 UTC	AGNRN NNWTA DWTNN. Mixing with HM01
7554 kHz, 14-10, 1940 UTC	Tuned xmtr but no tfc
8135 kHz, 16-10, 2305 UTC	Goes right into tfc, no callup
8096 kHz, 18-10, 1349 UTC	Tuned xmtr but no traffic followed
8135 kHz, 22-10, 2245 UTC	HM01 instead of M08a. Another transmitter being tuned on top of HM01 signal at 2247z. HM01 signal off at 2248z. On again, sending yesterday's 1600z sked groups. At 2307z M08a but HM01

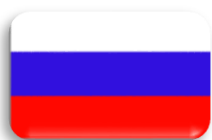
signal continues.

8135 kHz, 25-10, 2257 UTC AGNRN NNWTA DWTNN (mixing with HM01 signal)  
8009 kHz, 26-10, 2257 UTC RNAAA IWUDN TGIRA, mixing with HM01. HM01 stops at 2300 UTC  
8096 kHz, 30-10, 1328 UTC Xmtr tuned then noise comes on freq. No callups. Goes right into callups at 1408 UTC: IUIIR WITUG  
WIITN ...

**NOTE:**

Message texts are most always the same on weekend skeds. Possibly an indication that such skeds are for practice purposes??

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**M12**

**14728 kHz, 05-10, 1140 UTC**

973 1 6962 126 6962 126  
47036 00807 54805 73559 13649 66354 03029 83599 80297 15596  
00937 69813 88390 74944 90965 16085 18291 65917 84347 59797  
84992 04365 71860 30461 08912 35004 34176 72453 52559 44350  
26628 89037 18456 00554 33261 31370 59425 92450 36565 99009  
40783 21211 78658 91641 02052 49515 87915 44051 16864 48207  
55505 10052 23376 57843 97822 42830 54361 81510 13234 87897  
58400 92208 01569 60465 65949 70787 44535 01142 53435 57997  
29534 50781 88360 00679 54717 91542 41568 48718 45559 50156  
93184 61721 30844 40981 86041 88922 90584 21193 65686 53730  
66418 98274 88603 11179 82524 54922 91073 14695 37263 90543  
19493 52797 71146 82410 65391 65908 76647 25533 91742 12951  
87386 75887 64802 61677 05099 98909 68512 69736 65670 88676  
85071 85014 35475 05295 71502 13449  
000 000

**11435/10598/9237 kHz, 05-10, 1700/1720/1740 UTC**

938 1 8577 107 8577 107  
23726 10395 67448 24683 90811 57231 19865 21459 36275 03983  
77244 57676 86972 21113 79796 13354 29111 64417 32404 57436  
49663 70033 08304 43423 39841 46525 19448 07539 21182 85218  
82493 33103 33258 45731 71009 71673 64552 31421 45143 93384  
50170 70681 41155 73885 97484 67887 69657 16255 14613 11990  
53808 66278 72367 24151 86681 91260 07995 22647 60769 59507  
72930 24132 76916 53308 37414 46456 48844 08422 30409 66768  
02882 93822 75982 81401 57419 43071 62742 37376 65284 26999  
80987 93764 61893 09648 63907 66375 48678 11623 16537 90233  
97520 23021 49906 65094 87398 03890 52460 12422 04311 62489  
74645 86368 69300 21501 00043 33610 73963  
000 000

**8047/6802/5788 kHz, 19-10, 2000/2020/2040 UTC**

463 1 8315 73 8315 73  
35096 99598 70529 49208 38915 64257 57598 51996 78305 27761  
07797 19255 66001 60794 78703 81270 94368 80897 15632 86251  
53547 04457 80304 64084 71519 27928 50492 35578 57010 44492  
61594 22085 42084 78882 80054 29742 63871 55552 08777 45095  
05977 20917 32597 75494 78987 19723 09820 78210 22530 95323  
75546 36558 86133 10875 06231 48026 19967 90617 41161 55110  
07616 98487 38840 41229 19565 87438 65596 02728 52858 74167  
58513 67116 47741  
000 000

**8047/6802/5788 kHz, 24-10, 2000/2020/2040 UTC**

463 1 4343 72 4343 72  
48809 25978 30894 63657 91143 61214 71860 27677 56313 90937  
45449 22353 89718 49459 30080 30419 35890 19930 54491 06346  
90195 35904 91317 05417 23532 61066 39666 91594 25685 38248  
52638 12296 03034 17413 87760 97597 08759 54161 96337 72868  
60462 31978 55498 86078 15565 60777 72757 62916 88520 03126  
33648 38845 79712 14180 41762 86608 06755 43235 71766 85624  
45412 80626 71002 34908 75588 46062 64254 55446 98680 51909  
24596 32561  
000 000

**9176/7931/6904 kHz, 28-10, 1800/1820/1840 UTC**

257 1 845 84 845 84  
42918 01474 24504 63934 80141 99305 27961 69236 62401 96523  
45250 87292 79064 74366 62666 91505 51342 42098 86185 46791  
74874 35874 74272 59648 27792 72893 04236 75846 20809 49412  
09750 85057 78723 75620 30261 56750 40286 58089 05112 20399  
83724 35087 72505 83175 59547 60766 06284 87737 50909 99107  
43024 18966 81007 38663 05913 63373 54603 22272 05005 54563  
96240 28610 45018 88390 75136 71406 43106 11080 25920 95746  
73373 86613 55422 49510 04023 79915 68550 95477 49703 56234  
16624 64331 56838 22534  
000 000



**M14**

Danix copied a possible M14 on 6460 kHz, 04-10, 0838 UTC in hand sent MCW/USB with 1260Hz CW pitch + a 2520Hz harmonic and spurs. It had to restart twice during this broadcast, and the key often got stuck.

**6460 kHz, 04-10, 0838 UTC**

951 951 951 (R)  
04250 04250 01916 01916 44073 44073 21019 21019 22287 22287  
83343 83343 36412 36412 94142 94142 57788 57788 34642 34642  
96126 96126 35928 35928 22827 22827 26831 26831 14694 14694  
72321 72321 24623 24623 62231 62231 24850 24850 17451 17451  
59268 59269 42435 42435 60202 60202 58065 58065 29834 29834  
42333 42333 60622 60622 94732 94732  
= = 235 235 63 63 000  
951 951 951 (R)  
58065 58065 29834 29834 42333 42333 60622 60622 94732 94732  
= = 235 235 63 63 00000

**A faulty M14 on 5430 kHz, 10-10, 0800 UTC / Msg repated on 5560 kHz, 10-10, 0900 UTC**

171 (R) 823 823 020 020  
35091 35091 47919 47919 71061 71061 47137 47137 49053 49053  
91535 91535 76828 76828 32502 32502 58546 58546 23102 23102  
10871 10871 68236 68236 65764 65764 90152 90152 17615 17615  
80721 80721 38962 38962 04169 04169 25634 25635 95438 95438  
823 823 020 020 0000/  
Note the / instead of a 0 in both transmissions.

Then at 1812 UTC

E 00 0000E 0 0 000 E 0000 0 000 00 000 000 02546 99242 00731 38812 738 stops in the middle of the next figure

**5240 kHz, 11-10/25-10, 2300 UTC / 5825 kHz, 12-10/26-10, 0000 UTC**

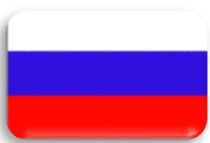
376 (R) 524 524 020 020  
93295 93295 26704 26704 14838 14838 56438 56438 79563 79563  
29243 29243 87610 87610 83817 83817 86036 86036 29313 29313  
36191 36191 62701 62701 76747 76747 37420 37420 15841 15841  
41958 41958 10736 10736 14238 14238 26365 26365 23051 23051  
524 524 020 020 00000

**5947 kHz, 13-10/27-10, 1820 UTC**

346 (R) 972 972 020 020  
43765 43765 19832 19832 72308 72308 59265 59265 71534 71534  
67442 67442 02617 02617 59292 59292 81721 81721 62043 62043  
91533 91533 40237 40237 51189 51189 52966 52966 21205 21205  
48810 48810 52981 52981 48206 48206 28881 28881 93711 93711  
972 972 020 020 00000

**5463 kHz, 28-10, 1920 UTC**

537 (R) 592 592 020 020  
27856 27856 43321 43321 93276 93276 50908 50908 41178 41178  
51086 51086 92745 92745 01655 01655 81653 81653 03865 03865  
81815 81815 92341 92341 67345 67345 98219 98219 58216 58216  
60221 60221 92770 92770 29845 29845 10456 10456 72878 72878  
592 592 020 020 00000



**M21**

***Russian Air Defence Forces***  
**Во́йска ПВО Voyska PVO**

4639.5 kHz, 02-10, 0432 UTC	=990732??0????? =990733??0????? =990734??0????? =990735??0?????
7426 kHz, 04-10, 0746 UTC	=16000986312648 =16000883312648 =993049??0 ?????? =110098833 49
	=991050??0?????? =16000988312 10.... 6000...
3536 kHz, 05-10, 1651 UTC	=991951??0????? =991952??0????? =991953??0?????
5245.5 kHz, 06-10, 0709 UTC	9500 997 04 31 12 9701 996 36 98 14
	9600 996 36 99 14 9500 997 94 58 15
	9610 997 07 54 15 9700 996 36 92 15
	9701 996 36 91 15 9501 997 52 81 16
	9500 997 94 58 18 .... / ...
	9500 997 94 47 18 9701 996 36 29 18
	9700 996 36 29 18 9501 997 52 95 18
7426 kHz, 06-10, 0726 UTC	=991026??0????? =991027??0????? =991028??0?????
5189.5 kHz, 06-10, 0714 UTC	9700 996 36 29 17 517 9700 41 10 511 500
	9701 996 36 29 18 517 9701 41 10 511 600
	9500 997 94 51 16 517 9500 41 03 511 500
	9501 997 52 85 18 517 9501 41 60 511 700
	9610 868 6188 19 517
4537.5 kHz, 06-10, 1220 UTC	9600 71 80 511 600 00 9600 864 21 87 15 20 517
3228.5 kHz, 08-10, 0216 UTC	=990516??0?????? =990517??0?????? =990518??0?????? =990519??0??????
3798.5 kHz, 09-10, 1854 UTC	9909998357752 9902997988853
6231 kHz, 13-10, 0455 UTC	=990754??0?????? =990755??0?????? =990756??0?????? =990757??0??????
4272 kHz, 19-10, 0451 UTC	=990651??8?????? =990652??8?????? =990653??8?????? =990654??8??????
4272 kHz, 30-10, 1926 UTC	=992226??8?????? =14000329023726 =14001329058326



## M23

Lots of M23 activity this month. Unfortunately the conditions were so poor that I couldn't hear most of them. Luckily Brian did copy them.

Freq.	Date	UTC	Details
8030 kHz	02-10	1227	564 (R25)
8030 kHz	02-10	1327	564 (R25)
8030 kHz	03-10	1800	00000 (R10) long dashes
8028 kHz	05-10	1802	i.p. 77291 82461 80553 28714 73946
8030 kHz	06-10	1202	i.p. ...67. Ends 1202 UTC
8030 kHz	06-10	1205	VVV 46167 38931 74809 82528 77291
82461	80553	28714	73946 27247 rpt msg
8030 kHz	07-10	1250	00000 (R12)
8030 kHz	07-10	1302	55555 (R6)
8030 kHz	07-10	1320	66666 (R8)
8030 kHz	07-10	1336	88888 (R10)
8030 kHz	07-10	1346	55555 (x3)
8030 kHz	07-10	1348	66666 (x3)
8030 kHz	07-10	1410	55555 (R12)
8030 kHz	07-10	1425	66666 (R6)
8030 kHz	07-10	1436	66666 (R8)
8030 kHz	07-10	1452	QQQ (x3)
8030 kHz	07-10	1456	66666 (R2)
8030 kHz	07-10	1501	66666 (R10)
8030 kHz	07-10	1520	55555 (R8)
8030 kHz	08-10	1200	00000 (R1)
8030 kHz	08-10	1201	552 (R1)
8030 kHz	08-10	1201	553 (R1)
8030 kHz	08-10	1201	999 (R1)
8030 kHz	08-10	1207	552 (R1)
8030 kHz	08-10	1229	553 (R1)
8030 kHz	08-10	1231	553 (x3)
8030 kHz	08-10	1346	111 (R1)
8030 kHz	08-10	1348	553 (R1)
8030 kHz	08-10	1350	553 (x2)
8030 kHz	12-10	1200	00000 (R10)
8030 kHz	12-10	1245	66666 (R1)
8030 kHz	12-10	1321	11111 (x3) =
8030 kHz	12-10	1330	VVV also at 1332z
8030 kHz	12-10	1505	=
8030 kHz	12-10	1700	66666 (R1m)
8030 kHz	12-10	1730	66666 (R8)
8030 kHz	13-10	1300	00000 (R10)
8030 kHz	13-10	1700	00000 (R10) Long zero
8030 kHz	13-10	1900	22222 (R10)
8030 kHz	13-10	1930	22222 (R10)
8030 kHz	15-10	1331	773 (x10)
8030 kHz	15-10	1333	882 (x10)
8030 kHz	15-10	1346	111 (x10)
8030 kHz	16-10	1237	55555 (R10)
8030 kHz	16-10	1304	00000 (R4)
8030 kHz	16-10	1351	00000 (R10)
8030 kHz	23-10	1905	00000 (R)



## M41

### *Russian Air Defence Forces*

### *Во́йска ПВО* *Voyska PVO*

4265.5 kHz, 05-10, 0400 UTC	IB4T IB4T and 549834 ... = 99169985411041928916 .....and QDW ZWT ZQD QDW IB4T AR 991899336850800 991999396390839 799199100511800
5896.5 kHz, 05-10, 0412 UTC	IB4T IB4T and 993343212 9919993366912 9918998546316 9919993368816
4870.5 kHz, 06-10, 0511 UTC	1998319808 1909799 IZOL ZZF ZUM ZXD ZEH ZZB ZKP RPT ZOF ZUM ZXD ZEH ZZB ZKP K 0097 03 9960 8 8 679100 81 511800 9702 9965 85720 9702 99658 57 20 9701 996588721 9701 996588721 9700 996089921
4265.5 kHz, 06-10, 1423 UTC	IB4T IB4T 72219499219989210628712701722 RPT 72219499219989210628712701722 IB4T IB4T AR 9917982 ...
3844.5 kHz, 11-10, 1510 UTC	VVV VVV QE8V 7221949710 996319916 173250175 M4ZS RPT 7221949710 996319916 173250175 M4ZS

3844.5 kHz, 11-10, 1524 UTC	VVV VVV J2TR 722194 9503997 9693161 722301814 RPT 7221949503 99796931617223 722194 9503997 9693151722301815 5S6F K
3798.5 kHz, 20-10, 1601 UTC	7PU4 7PU4 7PU4 AR 9938998546856 9938998542700 9938046904
4870 kHz, 23-10, 0506 UTC	IZOL QLW QSA ? QRK ? QXS AR 977996583404 9776996582204 9776996589306 9775996518806
3717.5 kHz, 26-10, 1430 UTC	0526 837 2529 30 = 0257 836 2541 30 = 0526 837 7475 30 = 0526 83835 1832 = 0257 836 2543 32 = 0526 837 748752= 0526 836 3134 34 = 0257 836 2489 34 = 0525 837 85 ....
3363 kHz, 26-10, 1508 UTC	6G5Y 6G5Y 6G5Y 6G5Y 6G5Y AR
6914 kHz, 26-10, 1631 UTC	TF5H TF5H TF5H TF5H TF5H AR
3598 kHz, 26-10, 1501 UTC	HN49 HN49 HN49 HN49 HN49 HN49 AR



## M89 - Chinese military

**We investigated the transmissions on 8073 kHz (logged by JPL) that appeared in the M89 column in the past few months. The mixture of voice callup, 4+4 QPSK modem, morse and voice traffic appears to be V26 and M95, not M89. So from now on you can the messages in the relevant columns.**

### Stations and strings:

V A7TR A7TR A7TR DE DI9Q DI9Q	V RXP7 RXP7 RXP7 DE CZT2 CZT2	V DF4J DF4J DF4J DE D3MR D3MR
V 5RAB 5RAB 5RAB DE M9AB M9AB	V S2LZ S2LZ S2LZ DE YBA6YBA6	V 43A 43A 43A DE A34 A34
V 7NPE 7NPE 7NPE DE QV5B QV5B	V SR3H SR3H SR3H DE FGH8 FGH8	V K6EN K6EN K63N DE D3MR D3MR
V 6TRW 6TRW 6TRW DE J9NS J9NS	V SXL6 SXL6 SXL6 de 9QFZ 9QFZ	VVV 2GHY 2GHY 2GHY DE RBR7 RBR7
V 7NPE 7NPE 7NPE DE QV5R QV5R (faulty txm)	V TKLO TKLO THLO DE TYUI TYUI	VVV 3XSY 3XSY 3XSY DE RBR7 RBR7
V 8CPZ 8CPZ 8CPZ DE XW6W XW6W	V TY9D TY9D TY9D DE EOX2 EPX2	VVV 4GN 4GN 4GN DE DE QJ7 QJ7
V 8DKB 8DKB 8DKB DE ODY8 ODY8	V VTX7 VTX7 VTX7 DE TZ7B TZ7B	V U2MD U2MD U2MD DE 3PWG 3PWG
V 8PEX 8PEX 8PEX DE TISF TISF	V VXL1 VXL1 VXL1 DE XIW2 XIW2	VVV Q3TI Q3TI DE U2ID U2ID U2ID
V BNGC BNGC BNGC DE XSV85 XSV85	V WZG6 WZG6 WZG6 DE 4VTG 4VTG	V 6LUA 6LUA 6LUA DE 3QWG 3QWG
V BIQ9 BIQ9 BIQ9 DE ISL2 ISL2	V YUQW YUQW YUQW DE ASDF ASDF	YZD1 YZD1 DE IDJM IDJM
V BRH0 BRH0 BRH0 DE 8NGG 8NGG	V ZRM7 ZRM7 ZRM7 DE LCM0 LCM0	XSBY
V B9SR B9SR B9SR DE AL6R AL6R	V N4FM5 N4FM5 N4FM5 DE DUT491 DUT491	JAH3 JAH3 DE CIVW
V CQ CQ CQ DE DP91 DP91	V Q5U8 Q5U8 Q5U8 DE 8QPP 8QPP	VVV CQ CQ CQ DE 3GY 3GY 3GY
V CQ CQ CQ DE DP0491 DP0491	V QHV8 QHV8 QHV8 de 8QPP 8QPP	WE6A WE6A DE 1NKP 1NKP
V DKG6 DKG6 DKG6 DE 3A7D 3A7D	V VVQ Q2M Q2M Q2M DE NYZ NYZ	KXG9 KXG9 DE 1NKP 1NKP
V DKSL DKSL DKSL DE ALSK ALSK	V DKSL DKSL DKSL DE ALSK ALSK	SD2Y SD2Y DE CV6K CV6K
V DKIL DKIL DKIL DE ALSK ALSK (faulty txm)	V 3A3J 3A3J 3A3J DE B4ZJ B4ZJ	IHUK K
V DP9J DP9J DP9J DE CQ CQ	V HER6 HER6 HER6 DE WU6L WU6L	8VNJ
V EI0B EI0B EI0B DE JHG2 JHG2	V BR3S BR3S BR3S DE JU9D JU9D	LM89 DE RJRN
V GKLO GKLO GKLO DE TYUI TYUI	V DGG6 DGG6 DGG6 DE 3A7D 3A7D (faulty ?)	YV7K
V GKN7 GKN7 HKN7 DE F3J5 F3J5	V TY9D TY9D TY9D DE EPX2 EPX2	
V H2FL H2FL H2FL DE DRV8 DRV8	VVV VVV VVV 4GN 4GN 4GN DE DE QJ7 QJ7	
V JKDJ JKDJ JKDJ DE SLBC SLBC	VVV CQ CQ CQ DE UKNO UKNO	
V M8JF M8JF M8JF DE RIS9 RIS9	VVV WNF WNF WNF DE FXM FXM	
V MW3D MW3D MW3D DE 2SLC 2SLC	VK6EN K6EN K63N DE D3MR D3MR	
V N4FM5 N4FM5 N4FM5 DE NAT491 NAT491	V DF4J DF4J DF4J DE D3MR D3MR	
V PGG9 PGG9 PGG9 DE MI6Y MI6Y	V FJ4B FJ4B FJ4B DE D4MR D4MR	
V RA5J RA5J RA5J DE BP2S BP2S	V SNT9 SNT9 SNT9 DE D3MR D3MR	



**Messages:**

7788 kHz, 01-10, 1126 UTC

```

RMKS 15.5 TO 97.. K
R R R R R R R == ==
28.. K
R ==
..28 AR K
R R R R == E R R 1W GA =
A647 76A3 D75D 4764 T6T5 D735 N.AA 3N65 T5AU TT3A (Cont'd)

```

4532 kHz, 02-10, 1739 UTC  
/1585/10/03/0210/596/A/58/97 AR  
UGT COMM = 328/1875/1585/10/03/0210/596/A/58/97 AR  
UGT COMM = 328/1875/1585/10/03/0210/596/A/58/97 AR

5555 kHz, 05-10, 1220 UTC

4774 7G NR 37  
7G GA NR 3710 CK CK 200 41 1005 1959 RMKS 0505 T0 1626 = =  
NU64 A73D 63T5 UDA7 53T6 36AU N4D5 N435 TTTT TTTT  
TTTT 40TTTT TTTT 4537 NU64 A73D 63T5 UDA7 (Cont'd)  
QSY QSY 11010  
457 7G NR 34 EEEEE 3  
7G NR 305  
7G 57 G4 T I E E  
MSG  
5TT. VE HE 443 444

5555 kHz, 06-10, 0026 UTC

LLG5 7G  
LLG557. VVV  
L5H5LL. R  
VV LR VVV RR G57 LRE LR LLG55555  
T T  
05 05 7G 57 LLG57 LLM7G5

9131 kHz, 06-10, 0040 UTC

NR 186 1830 RMKS 2617 TO 2217 2647 =  
.4C QRW 2647 QR. L18...  
7717/261./2277 HR WK NR 13

55555 kHz, 08-10, 1111 UTC

```

/CCK CK 28733 1005 2220 RMKS 9973 TO 4593 9DG
GNR 1M V 0
7G NR
7G NR 16/CCK CK 28 73 1005 2220 RMKS RMKS 9973 TO 459EEEE
BT 4R RMKS 9973 TO 4593 3 .89850 EEEEE
7G NR 16/CCK CK 28 73 1005 2220 RMKS 9973 TO 4593 9857 9974 94A8
7G NR
4T3N D7A5 6U34 U576 6.57 DAN DT.3 NDT3

```

8036 kHz, 08-10, 0147 UTC

ASU5 5TAT UNDT D6AA 7AT ND.7 3T34 T64N 7346  
AR K (Both stations on this frequency)  
R 10W = TT46 AR K  
N 1 ... K  
R 16W = DNT4 AR K  
N 20W K  
R 20W = 737T AR K (Cont'd repeat groups)  
R 41W TO 59W = 3UAT (Cont'd)

7554 kHz, 02-10, 1009 UTC

VVV 50 = D6.E  
434A  
VVV R K AR AR  
R K  
VVV YZD1 YZD1 DE IDJM IDJM K  
R EEE JX DE XSBY K (Both stations on this frequency)  
R QSA 2 QSA ? K  
R QSA 2 K  
R IEC DE= 8213 AR K  
R IEC = 5565 K  
R HR 7G GA PSE CY K  
R GA  
R IER NR 1002/CCK CK 19 33 1002 1831 RMKS 3534 TO 3511 III K (R GA  
R 1P 1W =  
TA7U 3UA6 NAT3 A3NU T5NT N4TA N7TA 4D74 T3AD TTAA  
6TND NU5T TD45 U4AD NDN5 3T45 4363 TD76 36AD III AR K  
R K  
1P 1W = TA7U 3UA6 NAT3 A3NU T5NT (Repeats message)  
III AR  
R R  
= AR H NR 100... CK 1. EEEEE 835  
QSL ? K  
R R QSL 1836 K  
R GA K  
R 7G GA NR 1002/CCK CK 19 33 1002 1837 RMKS 3511 TO 3534 K  
R U 7G GA K  
R 7G 7G = =  
TA7U 3UA6 (Changed DTG of previous message, reversed FM and TO and  
resent message)  
AR  
QSL 1841 K  
R  
HR WK NR KK 1042 K  
R HR WK  
RPT K  
HR WK NR 1042 K  
R HR WK NR 24 K  
R NIL SK GB  
R NIL GB K

7777 kHz, 10-10, 1425 UTC

3T433T53NT73DD5N ? 537N 7467 T5AU AR W  
AR AR YR YA YA YA YG YA YA Y TWA TWA  
LLLLYY 3 GYYYYY. YKYY VVV  
CQ CQ CQ DE 3GY 3G. EEEE  
VVV CQ (x3) DE 3GY 3GM Y EEEEEEEE  
VVV CQ (x3) DE 3GY 3GY 3GY MSG  
CQ NR 0086/CCK CK 259 09 1012 EEEE  
VVV CQ CQ GA 0 EEEEEEE  
TOOO  
3.. QQ FY FY FM MM ==  
4535 D5NN AD53 T4N4 54DU 376 AR AR

55555 kHz, 10-10, 0931 UTC

TU34 4444 4444 4444 444E = USUA UUUU  
UUU CY HW A ?  
QSL ?  
QSL 10800 K M  
K K K K K K K K ?????? 444444 S 444 UTTE E 5 5EEEEEEEEEEEEEE  
000000 (Long zero)  
45 45 AR BT 344444  
4444444444444444444444444444 = = = = = AUU3333433S 444DE 473NT7  
4NAI ? 4NASE 67D4 6DAU DIII BT ST4U  
VV EEEEE 44 = 433334 370  
05 05 05

4444 kHz, 11-10, 1202 UTC

3AU34567DNT  
JAH3 JAH3 DE CIVW K  
R DE CIVW K  
QSA 2 QSA ?  
R QSA 2 K  
R IEC 5GK  
M AR K  
R IEC = AR K  
IEC R NR 112 K  
R IEC R NR 331 K  
IER 7G GA K GA K  
MSG NR 01/CCK CK 125 37 0714 0200 K  
R GA K  
VV = =  
AUTA NN67 T7AN 5UNU U5DN U4DT A534 A435 =  
AUTA NN67 T7AN 5UNU U5DN U4DT A534 A435 UT57 UA5U  
N437 N53U TDUN T343 3UTT 33TN AT3N AA3T UU34 U335 (Cont'd)  
AR AR QST QSL QSL K  
VVV A NN67 T7TN 5UNU U5DN EE EE

4664 kHz, 15-10, 1708 UTC

NR 01 QSY NR 01 K  
R 6MWP QSA 3 K  
R HR NR 209 K  
R ORWME EEEEE  
QRW 4 CPS K  
R QRW 2 PHI K  
R SK GB K  
VV KXG9 KXG9 DE 1NKP 1NKP K  
VV KXG9 DE 1NKP K  
R R R 2PHI QSA 3 K  
QSA 1 QSA 1  
QSY NR 04 QSY NR 04 K EEEE QSY NR 04 K  
QSA 1 OEEEE QSA 1 QSY NR 11 QSY NR 11 QSY NR 11 K  
R R 2PHI QSA 3 K  
R HR NR 209 K  
R QRW 4CPS K  
R R QRW WE6A K  
R SK GB K  
R R R R R VCPS QSA 3 K  
4EEEE VCPS QSA 3 K  
R HR NR 209 K  
R HR NR 209 K  
R QRW WE6A K  
R SK GB K  
VV WE6A WE6A DE 1NKP 1NKP K  
VV WE6A DE 1NKP K  
R QSA 1 QSA 1 QSA 1  
QSY NR 02 QSY NR 02 QSY NR 02 K  
QSA 1 QSA 1  
QSY NR 21 QSY NR 21 QSY NR 21 K  
QSA 1 QSA 1  
QSY NR 13 QSY NR 13 K  
QSY NR 13 K  
QSA 1 QSA 1 QSA 1  
QSY NR 16 QSY NR 16 EEEE QSY NR 16 QSY NR 16 K  
QSY NR 11 QSY NR 11 K  
QSA 1 AS  
QSY QSY NR 18 QSY NR 18 K

8124 kHz, 15-10, 1104 UTC

QSA 2 K  
... 0K K 5. 05 05 05  
05 05 05 K K 50 K K 50 K K 50 K K 50 K K  
(Switched to voice USB at 1109z)

7553 kHz, 01-10, 1116 UTC

QSL 1915 K  
R HR 7G GA K  
7G NR NR 40MEEEEE  
NR 4017 CK 80 48 1001 1916 RMKS 8395 TO 8335 K  
1916 K  
R TIME 1916 K  
R = =  
NU6D 7535 T47N D64N 575T 6..3 K ? 6437 5745 U63A .T75 TTAD (Cont'd)  
AR K  
OK OK GA K

7553 kHz, 06-10, 1354 UTC

773 353 4T3 446 4D6 3DU TAU  
773 357 4T3 446 4D6 3DU TA3  
773 353 4T3 446 4D6 3DU  
7G AGN  
NR 918 CK 86 35 1006 1601  
46A UT3 TTT6 3U6 3A4 TT4  
773 35A U46 353 N3D 354 4T7 445 4D6 33D 75D 4DU 3DU TT5  
773 353 4T7 445 4D6 3DU TT6  
773 353 N3D 354 4T7 445 4D6 33D 75D 4DU 3DU TTD  
773 354 37U 4T4 445 4D6 75D 4D3 3DU TTN  
773 353 4T3 446 4D6 3DU TAT  
773 354 37U 4T3 445 4D6 75D 4D3 3DU TAA  
773 353 4T3 446 4D6 3DU TAU  
773 357 4T3 446 4D6 3DU TA3  
773 353 4T3 446 4D6 3DU  
A HR MSG GA  
NR 919 CK 191 35 1006 1601  
46A UT3 TT6 3U6 TT4  
773 3AD 357 4T7 N3D 4A5 445 N3D 446 467 4D6 33D D5D 4DU 3AN 357 37U  
4A5 N3D 4A4 446 467 4D6 75D 4D3 TT5  
773 3AD 357 4T7 N3D 4T5 445 N3D 446 467 4D6 33D 4D3 3DN 357 37U 4A5  
446 4D6 75D 4D3 TT6  
773 3AD 357 4T7 N3D 4UT 445 N3D 446 4D6 33D 75D 4DU 3AN 357 37U 4UT  
446 4D6 75D 4D3 TTD  
773 3AD 354 37U 4A7 N3D 4T3 446 4D6 33D 4D3 3AN 354 U46 353 37U 4T3  
446 4D6 33D 4D3 TTN  
773 3AD 353 III 4T3 446 4D6 3AN 357 37U 4T3 446 4D6 TAT  
773 3AD 354 37U 4T3 446 4D6 33D 4D3 3AN 354 U46 353 37U 4T3 446 4D6  
33D 4D3 TAA  
773 3AD 354 37U 4T3 446 4D6 75D 4D3 3AN 354 373 4T3 446 4D6 75D 4D3  
TAU  
773 3AD 354 373 4T3 446 4D6 75D 4D3 3AN 354 U46 353 373 4T3 446 N3D  
446 467 4D6 75D 4D3 TA3  
773 3AD 357 373 4T3 446 4D6 75D 4D3 3AN 357 373 4T3 446 N3D 446 467  
4D6 75D 4D3  
7G AGN  
NR 919 CK 191 35 1006 1601  
46A UT3 TT6 3U6 TT4 (repeat message)  
ZNN SK

88888 kHz, 12-10, 1052 UTC

7G 7G .... K  
.U34 AR 85AR K  
HA. AR 5IRD AR AR7D AR7D  
AR 05  
UE5 AR . AU355 EEE AU36 SAR. 5.  
HIA

3330 kHz, 14-10, 1028z UTC

VVV F GA CQ63 010097../0931 UGT COMM =  
01841/9758/2000/117NR/3301 AR = 1741K/ EE  
01841/9758/2000/117NR/3301 AR =  
01841/9758/2000/117NR/1301 AR AR

8123 kHz, 15-10, 1100 UTC

ND63 3TT. NTU4 54NA 4T5N 4TD5  
AR K  
R QSL 1905 K (Both stations on this frequency)  
R HR NP6 K  
HR /27 K  
R HR NR ..  
SK GB

5176 kHz, 16-10, 1209 UTC

NR 27/CCK CK 55 21 1016 2000 RMKS CQ = =  
UADA TNND 7N7. NDN6 3UU3 DD6A 2384 (Cont'd)  
AR  
YUQ3 K  
R 46W = T774 AR K  
R SK  
EF5B K  
R 7W AGN 7W BT U374 AR K  
R 54W BT TUD3 AR K  
R SK  
SS3 K  
QSA ? K  
R SK  
N.CD K  
QSL ? K  
R SK

5555 kHz, 16-10, 1218 UTC

3A6D 5D3T 7T5U 4N7U 6A4N 3D7U 4N3N  
05 05 05 (Cont'd) EEEEEEEEEEE 555555 = =  
5476576III AR AR K  
7U6T4A6N6D3A3T5D5TGA 7N4U676III AR AR K  
AU447 AU.5AU3476III AR AR K  
OK MU EEE 476543T EEEEEEE 5476 III 5. 54TT 77050  
05 05 05 AU3. 457D.III AR AR K  
III AR AU345676 III AR K  
OK GA HW ? K  
5437 6AU3 476 III AR AR  
EEEE 50 50 50 50  
GA HW ? K  
= = = 466T6T4AA5T65U7T4N6A5T3.7N4U 5T7U 3T5D (Cont'd)

12210 kHz, 17-10, 0810 UTC

= 79...352NN9 440/39/ EEE =  
794/C35F EEEEE =  
794/C3.2/9440/39/.2/05/331.. =  
794/C352/9440/39/32/05/3313 ...9 AR  
HR NR .030 SR NR HR NR 1030 EEE  
NIL SK NIL NIL SK

4136 kHz, 18-10, 1505 UTC

GB SK  
R E  
7G .. 72.. 12 11 1018 2130 RMKS .3 TO ... 3 K =  
..553 4U. . K  
RPT RPT RPT 20W BT DNDA DNDA AR K  
RPT RPT RPT RPT RPT RPT  
QSL QSL. 31.. K  
R OK  
SK GB SK GB SK GB

3870 kHz, 21-10, 1611 UTC

365A DAN4 ADN4 D54N 467A A57T 76N3  
= 53A4 NT3U 3T4A TE  
= 53A4 NT3U 3T4A T6UN NU54 5N37 (Cont'd)

4137 kHz, 19-10, 1852 UTC

V 6LUA (x3) DE 3QWG (x2)  
CL DE  
.7TI QSA 2 QAF  
NL SK GB NIL CL CL CL CA  
DE  
R CE6Q QSA 2 QSA ?  
DE CL DE  
R EX.4 QSA 2 QSA ? (Fading)  
NIL SK  
GL M EEEEE NIL SK  
GA EEEE GB  
CL DE  
R TE CL  
DE  
R Q68M QSA 2 QSA ?  
NIL SK GB CL ET EEEE DE  
R XV6EQ EEEEE GB6E QSA 2 QSA ?  
CL DE  
R FG7R QSA 2 QSA ?  
NIL SK  
GB CL  
CL  
DE DE  
R CE6Q EEEEEEE  
CE6Q 4A2 QSA ?  
NIL SK  
GB CL  
DE DE  
R D2VA QS2 QA?  
NIL  
GB SK CL  
CL CL CL CL TE TE EEEEEEE DE  
R SOPG QSA 2 QSA ?  
CL CL KL CL DE  
SOPG QSA 2 QSA ?  
NIL SK  
CL CL DE DE

6775 kHz, 20-10, 1937 UTC

CVBKM EEEEE  
VV SD2Y SD2Y DE CV6K CV6K  
HR SVC GA HR SVC GA EEEEE SVC GA HR SVC GA  
= = 6932/32 =  
6932/32/13/29/22/COMM/6703/DUTY AR R N = =  
6932/32/13/29/22/COMM/6703/DUTY AR AR

4385 kHz, 21-10, 1619 UTC

RPT 14W TO 16W BT UTD5 537N 57A4 AR K  
R R R EEEEE R RPT 22W K (Both stations on  
R RPT 22W .... K (Cont'd repeat groups)  
R QSL 0030 K  
R HR WK NR 0023 K  
R HR WK NR 011. K  
R HR WK NR 0119 K  
R HR NIL SK R HR NIL SK

5555 kHz, 24-10, 1738 UTC

U 12CLI K  
R AS K K  
VVV KKK KKKK  
VVV VVV V U12CLI DU 1 K  
BOZ NIL SK BOZ NIL SK  
SK SK SK SK SK SK SB SB SB SB  
12 K 12  
HR NR SB K

5708 kHz, 22-10, 1145 UTC

88 1021 0911 RMKS 758 7585 CWTO 7117 CW TO 7.69WX TO 7167 CW TO  
7539 .. 541cW. TO 7585  
NR 8356/CCK CK .22 1020 0925 RMKS .25CW TO 3507CW TO 3548WX TO  
37..CW TO 3758 TO A? .. 3M84WX TO 3525 AR W  
55 == = .545465 == = = 6NNK 5  
05 05 05 05 05 05  
223..9 9191 RMKS K  
54/NT CK 5 555555555555555555  
CK 666  
05 05 05  
= = 5.54D  
NR 1249 NR 1249... NR 1249/JKCB CK 50 22 2019 0814 RMKS 3..56CW TO  
3541CW TO 3507WX TO 3787CW TO 3785CW TO 3758WX TO 3575  
..34/1X/B.. 23  
NR 6531.. NR NR 1602/JKCB CK 50 99 1013 0819 RMKS 3494CW TO 3427CW  
TO 3416WX TO 3764CW TO 3746CW TO 3761WX TO 3494  
555555555 55AAU3 K  
519TU 5T9...3TDAN 3494N NN..TO 34U7 NNW TO3 AA  
555555555

7754 kHz, 24-10, 0228 UTC

VVV IHUK VVV IHUK K  
VVVV 8VNJ 8VNJ K N K K K  
MNIT KKK  
.R49 K  
R R MSG NR MSG NR  
MSG NR 3009 CK 100 11 1024 1040 =  
4AU3 47T6 6UD7 7T6A 6UD3 63UD 47T6 6UD3 47T6 6UD3 3D47 (Cont'd) AR  
VVV 84NJ QSL ?  
R R  
AS AS  
VVV IHUK K  
OK FF GA  
FF FF NR 3008 1030 = DP3/CF5 III  
FFF NR 3008/EX 1030 = DP3/CF5 III  
FFF NR 1030 = DP3/CF5 AR  
QSL ?  
RPT K  
RPT RPT RPT  
QSL 1045  
SK SK SK AS AS AS  
MSG NR CJCK MSG  
VVV IHUK  
GA  
MSG NR MSG NR MSG NR MSG NR 3009 CK 100 11 1024 1040 =  
4AU3 47T6 6UD7 7T6A 6UD3 63UD 47T6 6UD3 47T6 6UD3 3D47 (Cont'd)  
AR QSL ?  
OK OK  
UTOU SK ST K K U SK

8065 kHz, 24-10, 0228 UTC

T5U3 7UT4 547D 6D74 4DN6  
AR K  
VAQ 5W = 63DU AR K (Cont'd repeating groups)  
R U MSG GA K  
R GA

5801 kHz, 25-10, 1218 UTC

2000 RMKS 2617 TO 2647 2697 9784 9087 9737 EEEEE  
RMKS 9427 9467 .752 6157 6707 6817 = =  
AT63 U56A 63N7 6T5U 4UN5 4D53 ANU3 374D TU53 TT3D N6UD (Cont'd)

7810 kHz, 25-10, 0839 UTC

473T N3AU NNN3 N5DU TTT6 NU6A N6A6  
III III = = T535 TTT4 TTTU NNNU N554 TDD5 N7UU N7N4 TD53 N3U6 N77U  
TTT5 T4T5 (Cont'd)

8006 kHz, 25-10, 1127 UTC

R 10W ?  
R 10W = TTAT K (Both stations on this frequency)  
R GA K  
R 11W = D5T7 .736 6DDN .A3T DU6A (Cont'd)

8096 kHz, 25-10, 1201 UTC

CQ CQ  
AS (Different station)  
GA  
CQ CQ  
GA  
7TTT 6TUT ND76 56T4 TU3A A57 AR K  
1W 1W = 4... K  
1W GA  
2W GA  
2W = .TTT UUAU D764 6U4T U3.A 57 AR K  
3W GA  
3W = UUAU UUAU  
OK  
CQ CQ  
GA  
GA = = 4T34 D4TTTN 6UTTT 64T.64 U3D A5T CW  
3W GA  
3W = = 6UTTT 64TUNI4 U.DA. T AR K  
AS  
7W 7W GA  
7W = = A5T.  
CQ  
GA  
CQ CQ  
GA  
OK = = 4TD7 TTTT 6UTTT D363 336T U53U 34A  
5W GA  
5W = = = 36T4 .3.3 4.6U4W  
2W 2W = = 5. AR W  
5W 5W = .36T AR W  
OK

3755 kHz, 26-10, 1448 UTC

VVV RPQV de RPLC  
HR MSG GA NR 94/CCK28 73 10 26 2250 RMKS 9973 TO 9493 4587 4669  
9400 9996 4444 6436 =  
A76A AFG6 54AD

6775 kHz, 26-10, 1624 UTC

SD2Y de CV6K  
HR MSG GA NR 6923 /10 /22 / 42 / COMM / 6703 / RUTY  
AR  
QRU NIL SK

4373 kHz, 26-10, 1654 UTC

7U6A 6UN6 U454 35T5 T73N N6U5 7676  
??  
3T64 U5AT UNA3 NU4T (Cont'd)  
IIII 2P 1W GA BT 353A NUD6 3A7U NTNU

6775 kHz, 26-10, 1638 UTC

10/23/22/COMM/N.03/DUTY AR  
HR SVC GA BT 6965/..EEEE  
HR SVC GA BT 6955/10/23/12/COMM/6703/DUTY AR

6666 kHz, 26-10, 0930 UTC

V LM89 DE RJRN  
R QSA 2 K R QSA 2 K (Both stations on this frequency)  
R QSA 2 K  
IEC = EF AR K  
R IEC = EF AR K  
R BT DW AR K  
R HR NR 34 K. R HR NR 34 K. R HR NR 34 K  
R HR NR 43 K  
R HR NR NOT K  
R HR MSG GA K  
R GA K  
VV LM89 LM89 DE RJRN K  
R DE YV7K K  
DE YV7K K  
R HR QSA 2 K  
R QSA 2 K  
R H EEEEEEE R HR NR  
R IEC = EF AR K  
R BT DW AR K  
R HR NR NOT K  
R HR NR 134 K

6775 kHz, 30-10, 1355 UTC

V SD2Y (x3) DE CV6K (x2)  
HR SVC GA HR SVC GA  
= = 6943/72/11/12/COMM/6703/DUTY AR  
HR NR 1060 HR NR 1060 NIL SK NIL SK  
V SD2Y (x3) DE CV6K (x2)  
HR SVC GA = =  
6953/72/1./72/COMM/6703/DUTY AR  
NIL SK HR NR 1060 K

6775 kHz, 29-10, 1446 UTC

V SD2Y (x3) DE CV6K (x2)  
HR SVC R GA HR SVC =  
= = 6924/33/18/17/32/COMM/6703/DUTY  
V SD2Y DE CV6K  
GA HR SVC GA HR SVC  
V SD2Y DE CV6K  
HR SVC GA HR SVC GA  
V SD2Y DE CV6K  
HR SVC GA  
....67../DUTY AR  
= = ....75/18/17/72/COMM/6703/DUTY AR  
= = /.../COMM/... AR

8888 kHz, 28-10, 1113 UTC

FF NR 115/EX 1607 RA RMKS 1429 TO 253D 44EEEEEE  
FF NR 364DN/TX21T3 RMKS 80818 8174 TO 5496 K  
V FF 364/EX 210303 RMKS 8174 TO 45496 K  
= T64 A6AB BBAB55AB5./CD8 AB AR =  
AB AB 5/CD8 AR K  
QSL ? L? ?  
FF NR 369/EX 0804 RMKS 8184 TO 5480 K  
= AB5/CD8 AR = AB5/CD8  
FF NR 374/EX 1622 RMKS 8184 TO 54D6 K  
= M73/KG7 T AR K = M73/KG7 N AR K  
QSA QSL ? QSA ? ? ? ? ? ? ?  
BOZ USE UPSB W K  
7G NR 01 CK 30 73 1028 1922 K  
VV C BT DE /????  
FF 2 ?  
WP 1 06RO12 W =  
AUAA AB43 N47T N57N A6N3 A7N6 DTN7 DANU (Cont'd)



## M90 Czech army

### M90 Station profile

<b>General</b> Frequencies: 4133, 4193, 4852, 4861, 5098 kHz Mode: Morse and Voice (USB) Simplex net Net control station and various out stations	<b>Message format</b> ITJA (callsign of the addressee 3x) AR = 072 1 10 12 0830 072= ITJA (callsign of the addressee) = 5LG message = YPN3 (callsign of the sender) = callsign of the addressee and the message are repeated = YPN3 (callsign of the sender) =  072 - addressee 1 - message nr 10 - group count 12 - day 0830 - UTC+2 (summertime)  <b>Example:</b> ITJA ITJA ITJA AR = 072 1 10 12 0830 072= ITJA = DMYX C PJUSI GYQFJ IXMWO KDCLR AGXOY WKSRS PBCZY FZLPA TGEOA = (message repeated 2 times) = YPN3 =
<b>Traffic</b> Voice communication checks, all other traffic in Morse Markers Flash messages Messages consist of 5 letter groups	
<b>Formats and examples</b> <b>Marker:</b> ITJA ITJA ITJA AR  <b>Flash message format:</b> HRT6 de U4NP XXX NOCLEH 578 NOCLEH 578 K	

André and Chris copied a quite active Czech army net, better known as M90 and M91 in the past. As M90 and M91 are in fact the same, we will use the M90 designator for this net. This is probably a training net, like it was in the “old days”. M90/M91 were last heard in 2007.

Thanks for the logs guys and thanks to Karel and Zděnek for their help with the voice stations.

4852 kHz, 01-10, 0723 UTC 5LGs message i.p.

4852 kHz, 06-10, 0801 UTC XVSQ with 8 outstations CQXJ, TSXS, K6ZJ, MXV5, V7Z6, DNSF, ICFV, EHBJ

4133 kHz, 06-10, 0551 UTC (ends 0706 UTC) X4GO X4GO AR = = QTR 0815 AR X4GO X4GO AR  
X4GO QTC 158 = 150 05 0833 158 = X4GO =  
TYXKJ ECLTW VEFHM HZCGX ANPHB FPSEM VTVDJ SDOCV UYUIE TCRID  
FRYEL JXCXL LHCVF JLVMA TBOHR BDAMR MBZJU JILSY LWZNG HXDRL  
YFUSZ LJOIP FXHWF XFKOD JWAOP YITLY KSUOB JTSAB CXYTN DYPXU  
QBUMC EVPKC VUPRX POJEH DOBCW DCLUV YTRCD HELZR LJDXL BDKWP  
AORQR ZLYAL TYOAY UBHSC UTYFW EQMUG GOVRP TNTJS LCJWR LNZQZ  
= NKUO = 150 05 0833 158 = X4GO =  
TYXKJ ECLTW VEFHM HZCGX ANPHB FPSEM VTVDJ SDOCV UYUIE TCRID  
FRYEL JXCXL LHCVF JLVMA TBOHR BDAMR MBZJU JILSY LWZNG HXDRL  
YFUSZ LJOIP FXHWF XFKOD JWAOP YITLY KSUOB JTSAB CXYTN DYPXU  
QBUMC EVPKC VUPRX POJEH DOBCW DCLUV YTRCD HELZR LJDXL BDKWP  
AORQR ZLYAL TYOAY UBHSC UTYFW EQMUG GOVRP TNTJS LCJWR LNZQZ  
= NKUO =  
FOR X4GO RPT QLN AR X4GO X4GO AR = =  
QTR 0900 AR X4GO X4GO AR = =  
FOR X4GO 748 400 900 502 740 AR  
X4GO X4GO AR

4852 kHz, 08-10, 0622 UTC Garáž71 Garáž 71 zde (HERE) Obora 83 Obora 83 příjem (OVER)  
\*) see translation Varta50 Varta 50 Obora 83 Obora 83 kontrola spojení (CHECK CONNECTION)  
Varta 50 slyším vás dobře (I HEAR YOU WELL) Obora 83 slyším vás slabě (I HEAR YOU FAINT)  
same radio checks with Vrak 42, Honec74, Ryzec 79

4861 kHz, 08-10, 0702 UTC i.p. FZHDG LVMBC ZAJYL NMODR YWRMQ  
Ohlas71 zde Obora83 – mám zprávu – příjem (I HAVE A MESSAGE, OVER)  
Vatra 50 Rytec71 Vrak45 Honec74 Potlach35  
Obora 83 zpráva: (MESSAGE) čas (TIME) 0906 B cvičný skupin 20 (TRAINING GROUPS 20),  
rozděl (SEPERATOR =)  
VUSJT IKVGH XKNZU UJNVB VZYBC NKJUQ BSXAH JDIKJ QTNQP UGSHI  
PXMMN KTIJW UNHTR GEFAS UNSKO JGNIN FMWZH DXWTB ADYTX ZEFLA  
příjem (OVER) Vatra50 rozumím (I UNDERSTAND) příjem (OVER)  
Rytec71 Vrak45

4133 kHz, 09-10, 0812 UTC ASDF ASDF ASDF AR

4193 kHz, 12-10, 0622 UTC YPN3 clg ITJA (collective callsign) ITJA ITJA ITJA AR  
= 072 1 10 12 0830 072= ITJA =  
DMYX C PJUSI GYQFJ IXMWO KDCLR AGXOY WKSRS PBCZY FZLPA TGEOA =  
(REPEAT MESSAGE 2x)  
FOR ITJA RPT QLN AR  
ITJA ITJA ITJA AR  
= 072 2 20 12 0838 072 =ITJA =  
DNFVZ KADQS FKIEU YMISI IRFBP QWXTY RZBNM BGMNX QRKRK JEYCR  
VNASC ARECA HKXPY HOURP DCNCX BIOIP MSKLY NVKMG KRIQL LAYGZ  
= YPN3 = (REPEAT MESSAGE 2x)  
FOR ITJA RPT QLN AR  
ITJA ITJA ITJA AR = = QTR 0847 = ITJA ITJA ITJA AR = =  
FOR ITJA 652 553 353 955 103 AR  
ITJA ITJA ITJA AR

5098 kHz, 13-10, 0801 UTC XVSQ wkg EGK6, TSXS, K6ZJ, PJP6

4852 kHz, 15-10, 0730 UTC XVSQ wkg DNSF, K6ZJ, MXV5, ICFV. Collective Callsign: HR3H

4193 kHz, 19-10, 0601 UTC WTY5 WTY5 WTY5 AR (Bcast)  
0619 UTC WTY5 QTC 226 = 1 50 19 0820 226 = WTY5 = KXEOY BXMPF 06929 QLUZY NUETY 42454 GJZAX EI-UBA 70574 KTKVY ALSXF 71469 EKCBU ZLTDJ 20825 QCXEY RFLPQ 69136 ... : ... = J9XE = 1 50 19 0820 226 = WTY5 = (REPEAT MESSAGE) = J9XE = FOR WTY5 RPT AL QLN AR (Bcast)  
0635 UTC WTY5 = QTR 0835 WTY5 (Bcast)  
0638 UTC QTC 2 26 = 2 50 19 0838 226 = WTY5 = TYOAY UBHSC 56745 SILCJ RPLNZ 58713 BMQYW TYQVP 92909 ... / ... (REPEAT MESSAGE) = J9XE = FOR WTY5 RPT AL QLN AR  
0653 UTC WTY5 = FOR WTY5 686 410 310 012 680 AR – END TRAFFIC : 07H29z (Bcast)

4852 kHz, 20-10, 0745 UTC XVSQ wkg DNSF, CQXJ, TSXS, ICFV, PJP6, EHBJ (collective callsign: HR3H)  
Comms checks and messages ZBO K and 5LGs  
Preamble : « - R – 1000B (Time UTC+2) - ZEU GR10 or GR20»  
Alert messages: XXX KNIHA 967 - REPAS 389 – MAKETA 613 -  
0855 UTC HR3H de XVSQ 678 ? 678 K. All Outstations send R K  
XVSQ sends AR

5410 kHz, 22-10, 0843 UTC NUBM de U9PG QTC 658 K  
U9PG de NUBM QRV K  
NUBM de U9PG = 1 25 22 1044 658 = NUBM = RCGIS MNORI KMGTE RAMRT OCEMA ... = U9PG K  
U9PG de NUBM R 1 K  
U9PG de NUBM 593 760 795 K \*)  
NUBM de U9PG R 593 760 795 K

\*) 593 760 795 is information for QSY : the next frequency is 5040 kHz

5040 kHz, 22-10, 0857 UTC NUBM de U9PG 142 600 K (probably authentication)  
U9PG de NUBM C K  
U9PG de NUBM QTC K  
U9PG QRV K  
U9PG de NUBM = 02 25 22 1058 658 = U9PG= TEXT GROUPS 5 FIGURES = NUBM  
NUBM de U9PG R 2 K  
U9PG de NUBM 258 528 K  
NUBM de U9PG R 258 528 K  
U9PG de NUBM R AR

5040 kHz, 22-10, 0857 UTC NUBM wkg U9PG (Calling, authentication, Exchanges QTCs, etc)

**\*) Tactical callsigns translated:**

garáž/garage  
obora/enclosure (control station)  
honec/Chaser  
ryzec/lactarius  
varta /watch...guard  
potlach/obsessed  
vrak/the wreck  
ohlas/the response

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## M95

8073 kHz

We investigated the transmissions on 8073 kHz (logged by JPL) that appeared in the M89 column in the past few months. The mixture of voice callup, 4+4 QPSK modem, morse and voice traffic appears to be V26 and M95, not M89. The 4+4 modem does not have a designator of its own. For the time being we will call these Q26.

8073 kHz, 01-10, 0018 UTC	i.p. 773 357 373 4TA III 4TD NN3 445 3DU
8073 kHz, 01-10, 1152 UTC	V BNGC (x3) DE (x2)
8073 kHz, 02-10, 1149 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 03-10, 0008 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 03-10, 0021 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 05-10, 1152 UTC	XSV85
8073 kHz, 06-10, 0004 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 06-10, 1134 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 07-10, 0007 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 07-10, 1135 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 08-10, 0016 UTC	XSV85 i.p. NN3 434 3DT TTA N34 TTA ND4
8073 kHz, 08-10, 1145 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 09-10, 1139 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 10-10, 0008 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 10-10, 1140 UTC	V BNGC (x3) DE XSV85 (x2) (Cont'd)
8073 kHz, 11-10, 1140 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 12-10, 0023 UTC	XSV85
8073 kHz, 12-10, 1137 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 13-10, 0005 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 13-10, 1143 UTC	V BNGC (x3) DE XSV85 (x2)
7554 kHz, 14-10, 1017 UTC	NR 941 CK 75 35 1014 0648 4DA UT3 TA4 3U4 3A4 TT4 ... 7773 353 4T3 446 4D. 4N6 3D3 ZNN SK
8073 kHz, 14-10, 1138 UTC	V BN GC (x3) DE XSV85 (x2)
8073 kHz, 15-10, 0004 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 15-10, 0038 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 16-10, 0005 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 16-10, 1141 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 17-10, 1142 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 22-10, 1135 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 23-10, 1142 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 25-10, 0005 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 25-10, 1151 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 27-10, 0001 UTC	i.p. 4D6 TU4 773 TU5 773 356 4T3 NN3 445 3DU
8073 kHz, 27-10, 1148 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 28-10, 0007 UTC	V BNGC (x3) DE XSV85 (x2) (V BNGC (x3) DE XSV85 (x2))
8073 kHz, 28-10, 1136 UTC	V BNGC (x3) DE XSV85 (x2)
7553 kHz, 29-10, 0913 UTC	V BNEC DE XSV70 (JPL-HK)
8073 kHz, 29-10, 1138 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 30-10, 0007 UTC	V BNGC (x3) DE XSV85 (x2)
8073 kHz, 30-10, 1140 UTC	V BNGC (x3) DE XSV85 (x2)



7554 kHz, 07-10, 1319 UTC  
 DE XSV70  
 HR MSG .. PSE CY  
 NR 927 CK 115 35 1009 1515  
 46AU TU3 TTN 3U6 3A4 TT4  
 773 353 4A4 446 467 N3D 447 4D6 33D 4D3 3DU TT5  
 773 353 4A4 446 N3D 447 4D6 3D3 TT6  
 773 (Cont'd)

7553 kHz, 29-10, 0915 UTC

V BNEC (x3) DE XSV70 (x2)  
 MSG 02 PSE CY  
 NR .4 CK 5. 49 1029 .700  
 704 564 3 (Cont'd)  
 MSG AGN  
 NR 54 CK 5. 49 1029 1700  
 704 564 DU5 736 5D5 (Cont'd)  
 NR 00999 CK 94 35 1029 1547  
 46A UT3 TUN 3U6 3A4 (Cont'd)  
 MSG AGN  
 NR 999 CK 94 35 1029 1547  
 46A UT3 TUN 3U6 (Cont'd)

7554 kHz, 14-10, 1017 UTC, i.p.  
 NR 941 CK 75 35 1014 0648  
 4DA UT3 TA4 3U4 3A4 TT4  
 733 35A U46 3.3 4AD 445 4D6 33D 75D 4DU 3DA TT5  
 773 35A U46 353 4D5 N3D ..D 445 .D6 3.U TT6  
 773 35A U46 353 .AD 445 4D7 33D 75D 4D. 3DU TTD TTN  
 773 35A .46 353 4.. 4.. 4D6 3DU TAT TAA  
 773 35A U46 353 4T3 446 4D6 3DU TAU  
 773 353 ..3 447 4D6 3D3 TA3  
 773 353 4T3 446 467 4D6 3D3  
 MSG NR 941 CK 75 35 1014 0648  
 4DA UT3 TA4 3U4 3A4 TT4  
 773 35A U46 343 4AD 445 4D5 33D 75D 4DU 3.U TT5  
 773 35A U46 353 4A5 N3D 4AD 445 4D6 3DU TT6  
 773 35A U46 353 4AD 435 4D6 3.D 75D 4DU 3DU TTD TTN  
 773 35A U46 353 4T3 445 4D6 3DU TAT TAA  
 773 35A U46 353 4T3 446 4D6 3DU TAU  
 773 353 4T3 447 .D6 3D3 TA3  
 7773 353 4T3 446 4D. 4N6 3D3  
 ZNN SK



Source: Central Intelligence Agency 1996.

## M95 on 8073 kHz

8073 kHz, 01-10, 0018 UTC

773 TA7  
773 357 373 4TA III 4TD NN3 445 3DU 336 N3D 4T3 NN3 TT5 N34 437 3D4  
4DT 4D6 TAD  
773 TA.  
773 TUT  
773 TU3  
773 353 37. 4T7 NN3 445 3DT TTA N34 TTA ND4 TT5 346 N3D 4TU NN3 446  
3D3 4DT 4D6 TUA  
773 TUU  
773 TU7  
773 TUN N34 T33  
773 353 37U 4TD NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU4  
773 356 37U 4T7 NN3 445 3DU 4DT 4D6 TU5  
773 356 37U 4T6 NN3 445 3DU 336 N3D 4T6 NN3 446 3D3 4DT 4D6 TU6 III =  
773 357 373 4A6 NN3 445 3DU 336 N3D 4A5 NN3 447 46D 3D4 4DT 4D5 AR

8073 kHz, 01-10, 1152 UTC

V BNGC (x3) DE XSV85 (x2)  
HR 7G GA  
NR 0817 CK 46 35 1001 1635 = =  
TAT N5U TTA N53 TAD N54 7TT TTA 746 6TU  
6T6 6TU 6AT TA4 6A4 A45 6A5 U36 6A6 TTD  
6A7 TA5 74D 6UU TAT N34 TAU 635 4A4 645  
N35 D7T DA7 U4N 6T3 TU4 DAA D5D NU7 DD4  
A5 66A 5AN A6A 7TAD AR AR  
MSG GA  
NR 0818 CK 290 35 1001 1640 = =  
TTA 3U6 3AN 3U7 TAU  
773 TA7  
773 357 373 4TU NN3 436 4D7 3.. 4DT 4D6 TAD  
773 TAN  
773 TUT  
773 TU3  
773 353 374 4TU NN3 445 3DU 33N N3D 4T3 (Cont'd)

8073 kHz, 02-10, 1149 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
HR 7G GA PSE CY  
NR 0823 CK 232 35 1002 1557 = =  
TTU 3U6 3AN 3U7 TAU  
773 353 373 4T3 NN3 447 46D 3D5 34A N3D 4T3 NN3 446 467 3D4 4DT 4D6  
TA7  
773 357 373 4T3 NN3 447 3D5 4DT 4D6 TAD  
773 357 373 4T3 NN3 435 466 335 DUU N7T NUU N34 4T3 NN3 456 3D6 4DT  
4D3 TAN  
773 357 373 4T3 NN3 435 466 335 DUU N7T NUU N34 4T3 NN3 447 46D 3D5  
4DT 4D6 TUT  
773 357 37U 4T3 NN3 435 466 3DT TTU 4DT 4D6 TUA  
773 357 37U 4A6 NN3 445 3DU3 35 DUU N7T NUU N34 4A5 NN3 446 3D3 III  
BT 4DT 4D6 TUU  
773 354 367 4A5 NN3 445 474 437 3DU 335 DUU N7T NUU N34 4A4 NN3  
456 3D6 4DT 4D6 TU3  
773 357 37U 4T7 NN3 445 3DU 335 DUU N7T NUU N34 4T3 NN3 454 47U  
3D7 4DT 4D6 TU4  
773 354 37T 4T3 NN3 453 3D5 346 N3D 4U4 455 3DD 4DT 4DU TU5  
773 354 373 4T3 NN3 447 474 43D 3D5 34U N3D .... NN3 446 3D4 4DT 4D6  
TU6  
773 354 36D (Cont'd) AR  
AS R 7G GA  
NR 0824 CK 232 35 1002 1558 = =  
TTU 3U6 3AN 3UD TAU  
773 353 37U 4T3 NN3 446 467 3D4 (Cont'd)

8073 kHz, 03-10, 0008 UTC, morse  
8073 kHz, 03-10, 0014 UTC, XSV85 4+4 QPSK 75/1000 LSB data  
8073 kHz, 03-10, 0021 UTC, morse

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CP  
NR 5528 CK 198 35 1003 0..8 182 8E EEEEE  
NR 0828 CK 198 35 1003 08EEEEEE  
NR 0827 CK EEEEEEEEE (Horrible operator!!!)  
(Switched to 4+4 data mode again)  
V BNGC (x3) DE XSV85 (x2)  
HR 7G GA EEEEE  
HR 7G S GA PSE NNY  
NR 0829 OEEEEEE  
NR 082MS CK EEEEEEE  
NR 0827 CK 198 35 1003 0737 = =  
TT3 3U4 3A4 TAU  
773 353 373 4T3 NN3 446 467 3D4 4DT 4D6 TA7  
773 357 373 4T3 NN3 447 46D 3D5 4DT 4D6 TAD  
773 357 373 4T3 NN3 436 467 3D5 336 N3D 4T3 NN3 454 3D7 4DT 4D3 TAN  
773 357 373 4T3 NN3 436 467 3D5 336 N3D 4T3 NN3 454 3D7 4DT 4D6 TUT  
773 357 37U 4T3 NN3 435 466 3DT TTU 336 N3D 4T3 NN3 446 3D4 4DT 4D6  
TUA  
773 357 37U 4A6 NN3 435 466 3D3 34U N3D 4A5 NN3 453 3D5 4DT 4D6  
TUU  
773 354 367 4A5 NN3 III BT TT5 N34 437 3D4 34U N3D 4A4 NN3 456 3D6  
4DT 4D6 TU3  
773 357 37U 4T3 NN3 453 3D5 336 N3D 4U4 443 3DN 4DT 4D4 TU4  
773 354 37T 4U4 455 3DD 4DT 4DU TU5  
773 354 373 4T7 NN3 446 3D4 4DT 4D6 TU6  
773 354 36D 4AA NN3 454 3D7 3.6 N3D 4AA NN3 453 3D5 4DT 4DU TU7  
773 354 367 4AA NN3 347 474 43D 3D5 3DT 4D5 TUN  
773 357 373 4AA NN3 446 3D3 4DT 4D6 T3T N34 T33  
773 357 373 4AA NN3 435 467 3DT TTU 4DT 4D6 AR  
7G GA  
NR 0828 CK 45 35 1003 0738 =  
TAT N5U TT3 3TT N54 7TT TT6 746 6T5 6T7  
6TA TUU 6T4 6AT TT6 6A4 ADU 6A5 A6A 6A6  
NDU 6A7 TUD 6U4 UUT 74D 6UU TAA N34 TA3  
635 4UA 65N TU4 NA D5 D NU7 DD3 6A4 AND  
6A5 AA4 6A7 T4T .AN AR  
(Switched to voice USB - Male operator)

8073 kHz, 05-10, 1152 UTC

773 357 373 4T7 NN3 435 466 3D3 346 N3D 4T7 NN3 445 3DU 4DT 4D6 TUT  
773 373 4T7 NN3 446 3D3 34N N3D 4T7 NN3 445 3DU 4 DT 4D6 TUA  
773 TUU  
773 TU3  
773 357 373 4TD NN3 445 3DU 4DT 4D6 TU4  
773 356 4T6 NN3 435 3DT TTU 4DT 4D6 TU6  
773 TU7  
773 TUN N4 T33 III =  
773 343 373 4T3 NN3 445 3D4 4DT 4D6 3UD TAU  
773 ...  
773 353 4N3 4T3 NN3 446 3D3 335 N3D 4T3 NN3 435 3DT TTU 4DT 4D6 476  
3UN 475 AR AR  
(Switched to voice USB - Female operator)

8073 kHz, 08-10, 1145 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY (1147z)  
NR 0847 CK 235 35 1008 1618 =  
TTD 3U6 3AN 3U7 TAT  
773 353 373 4UT NN3 (Cont'd)

8073 kHz, 06-10, 0004 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY (0006z)  
NR 0842 CK 75 35 1006 0707 = =  
TT6 3U4 3A4 TAU  
773 TU4  
773 TU5  
773 353 4T3 NN3 435 466 3DT TTU 4DT 4D6 TA7  
773 TAD  
773 354 373 4T7 NN3 435 3DT TTU 4DT 4D6 TAN  
773 TUA  
773 TU3  
773 357 373 4T7 NN3 445 466 3DT TTU 4DT 4D6 TUT  
773 TUU  
773 353 37U 4T7 NN3 445 3DU 4DT 4D6 TU6  
773 TU7  
773 TUN N34 T33  
773 353 373 4T3 NN3 445 3DU 4DT 4D6 AR AR  
7G AGN NR 0842 CK 75 35 1006 0707 =  
TT6 3U4 3A4 TAU (Cont'd repeat message)  
AR AR AR (Switched to voice USB - Male operator)

8073 kHz, 06-10, 1134 UTC

V BNGC (x3) DE XSV85 (x2)  
HR 7G GA PSE CY  
NR 0843 CK 120 35 1006 1607 =  
TT6 3U6 3AN 3U7 TAU  
773 353 4T3 NN3 435 3DT TTU 335 N3D 4T4 NN3 445 3DU 4DT 4D6 TA7  
773 TAD  
773 353 37U 4A7 NN3 445 3DU 4DT 4D6 TAN  
773 TUA  
773 TU3  
773 373 4T7 NN3 445 466 3DT TTU 4DT 4D6 TUT  
773 TUU  
773 353 4T7 NN3 445 3DU 4DT 4D6 TU4  
773 TU5  
773 353 4T3 NN3 435 466 3DT TTU 34T N3D 4A7 NN3 445 3DU 4DT 4D6 TU6  
773 TU7  
773 TUN N34 T33 733 533 7U4 T3NN3 445 3DU 4DT 4D6 3UD 475 3UN TAU  
773 353 III BT BT 37U 4A7 NN3 434 3DT TTA N34 TTA ND4 TT5 335 N3D 4T3  
NN3 435 466 3DT TTU 4DT 4D6 AR AR  
7G AGN  
NR 0843 CK 120 35 1006 1607 = =  
TT6 3U6 3AN 3U7 TAU (repeat message)

8073 kHz, 07-10, 0007 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
7G NR 0844 CK 70 35 1007 0701 =  
TT7 3U4 3A4 TAU  
773 TU5  
773 353 46T NN3 445 466 3DT TTU 4DT 4D6 TA7  
773 TAD  
773 TU4  
773 353 37U 4A7 NN3 445 3DU 4DT 4D6 TAN  
773 TUA  
773 TU3  
773 353 37U 4T7 NN3 445 3DU 4DT 4D6 TUT  
773 TUU  
773 353 4A7 NN3 445 3DU 4DT 4D6 TU6  
773 TU7  
773 TUN N34 T33  
773 353 4T3 NN3 445 3DU 4DT 4D6 AR (Switched to voice. Female operator)

8073 kHz, 07-10, 1135 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
NR 0845 CK 151 35 1007 1621 = =  
TT7 3U6 3AN 3U7 TAU  
773 TA7  
773 TAD  
773 TAN  
773 TU3  
773 TU4  
773 357 373 4T4 NN3 445 3DU 4DT 4D6 TUT  
773 357 373 4T3 NN3 445 3DU 4DT 4D6 TUA  
773 TUU  
773 TU6  
773 356 37U 4T3 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU5  
773 356 4A7 NN3 445 3DU 4DT 4D6 TU7  
773 357 373 4T6 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUN N34 T33  
773 357 373 4AA NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 3UD TAU  
773 TA7  
773 357 III BT 373 4T3 NN3 445 3DU 33N N3D 4T3 NN3 446 3D3 4DT 4D6  
476 3UN TAU  
773 TA7  
773 353 37U 4T3 NN3 446 467 3D3 4DT 4D6 TAD  
773 TAN  
773 TUT  
773 354 367 4UT NN3 445 3DU 34A N3D 4UT NN3 446 474 43D 3D3 4DT 4D5  
476 AR AR  
MSG AGN  
NR 0845 CK 151 35 1007 1621 = =  
TT7 3U6 3AN 3U7 TAU (Cont'd repeat message)

8073 kHz, 08-10, 0016 UTC

NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUA  
773 357 373 4T3 NN3 445 474 43D 3DU 4DT 4D6 TUU  
773 TU3  
773 TU4  
773 TU6  
773 356 4T3 NN3 434 3DT TTA N34 TTA NN3 TT5 4DT 4D6 TU5  
773 356 4A7 NN3 445 3DU 4DT 4D6 TU7  
773 357 373 4T6 NN3 434 III BT BT 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUN  
N34 T33  
773 356 37U 4AA NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 AR AR  
(Switched to voice USB - Male operator)

8073 kHz, 11-10, 1140 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA  
NR 0858 CK 167 35 1011 1615 = = =  
TAA 3U6 3.3 AN 3U7 TAU  
773 TA7  
773 TAD  
773 357 37. (Cont'd) AR AR  
NR 0859 CK 34 35 1011 1619 =  
TAT N5U TAA N53 TAD N54 7TT TT6 746 7T5  
77T DN3 7T7 TAU 773 TA7 773 TAD 773 TAN  
773 TUT 773 TU3 773 TU4 773 TU5 773 7AN  
7AD N47 3AN 7U5 AR AR  
(Switched to voice USB - Male operator)

8073 kHz, 14-10, 1138 UTC

V BNGC (x3) DE XSV85 (x2)  
HR 7G S GA PSE CY  
NR 0869 CK 270 35 1014 1606 =  
TA4 3U6 3AN 3U7 TU7  
733 356 4T3 NN34 4.. 467 3D4 4DT 4DT TA7  
773 TU4  
773 356 4T3 NN3 446 (Cont'd)

8073 kHz, 13-10, 1143 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY (1146z)  
NR 0865 CK 188 35 1013 1624 =  
TT3 373 U63 AN3 T7T AU7 73 TA7  
773 TU4  
773 TU5  
773 353 (Cont'd)

---

8073 kHz, 09-10, 1139 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
NR 0850 CK 277 35 1009 1635 =  
TTN 3U6 3UN 3U7 TAU  
773 TA7  
773 357 373 4TU NN3 436 467 3D4 4DT 4D6 TAD  
773 353 343 466 3DT TTU 4DT 4D6 TAN  
773 TU3  
773 353 373 4TU NN3 445 3DU 34T N3D 4TU NN3 435 3DT TTU 4DT 4D6 TUT  
773 756 357 373 4UT NN3 446 467 3D3 4DT 4D6 TUT  
773 754 357 373 4AD NN3 445 3DU 34A N3D 4UT NN3 446 3D3 4DT 4D6  
TUA  
773 TUU  
773 353 4AD NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU4  
773 TU5  
773 356 4AD NN3 445 III = 3DU 4DT 4D6 TU6  
773 TU7  
773 TUN N34 T33  
773 356 4AD NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 3UD TAU  
773 TA7  
773 353 4T3 NN3 447 46D 3D5 4DT 4D6 TAD  
773 TAN  
773 357 373 4UT NN3 446 467 3D3 345 N3D 4TU NN3 447 3D5 4DT 4D6 TUT  
773 357 373 4UT NN3 447 46D 3D5 4DT 4D6 TUA  
773 TU3  
773 357 373 4UT NN3 435 466 33N N3D 4UT NN3 436 467 3D4 4DT 4D6 TU4  
773 TU5  
773 353 373 NN3 446 3D3 345 N3D 4T3 NN3 447 III BT 3D5 4DT 4D6 476  
3UN TAU  
773 TA7  
773 353 4T3 NN3 447 46D 3D5 4DT 4D6 TAD  
773 TAN  
773 TU3  
773 357 373 4T3 NN3 447 3D5 4DT 4D6 TUT  
773 357 373 4T3 NN3 447 46D 3D5 4DT 4D6 TUA  
773 357 373 4T3 NN3 436 467 3D4 4DT 4D6 TUU  
773 357 373 4T4 NN3 435 3DT TTU 4DT 4D6 TU4  
773 TU5  
773 353 373 4T3 NN3 447 3D5 4DT 4D6 476 AR AR  
7G AGN  
NR 0850 CK 277 35 1009 1635 = = (repeat message)

---

8073 kHz, 15-10, 1138 UTC

V BNGC (x3) DE XSV85 (x2)  
HR 7G GA CY  
HR MSG GA CY  
NR 0872 CK 237 35 1015 1656 = =  
TA5 3U6 4AN 3U7 TAU  
773 TU5  
773 356 4T3 NN3 (Cont'd)

---

5555 kHz, 17-10, 1129 UTC

V BNGC (x3) DE XSV85 (x2)  
Switched to 8073 kHz for XSV85 1130z schedule

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8073 kHz, 10-10, 1140 UTC

VV V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
NR 0854 CK  
NR NR 0854 CK 259 35 1010 0550 = =  
TAT 3U6 3AN 3U7 TAU  
773 TA7  
773 357 4T3 NN3 446 3D3 345 N3D 4T3 NN3 447 4DD 3D5 4DT 4D6 TAD  
773 TAN  
773 357 373 4T3 NN3 446 3D3 345 N3D 4TU NN3 447 3D4 4DT 4D6 TUT  
773 357 373 4UT NN3 447 46D 3D5 4DT 4D3 TUA  
773 357 373 4T3 NN3 435 474 43D 3DT TTU 335 N3D 3D3 4DT 4D3 TUU  
773 353 373 4AD NN3 434 3DT TTA N34 TTA NN4 TT5 4DT 4D6 TU3  
773 TU4  
773 TU5  
773 357 373 4T3 NN3 435 3DT TTU 33N NN3 D 4TU NN3 436 III  
VV V = = 46D 3D4 4DT 4D6 TU6  
773 TU7  
773 TUN N34 T33  
773 356 4AD NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 3UD TAU  
773 TA7  
773 TAD  
773 TU4  
773 TU5  
773 353 4T3 NN3 447 46D 3D5 4DT 4D6 TAN  
773 357 37U 4T4 NN3 447 3D4 4DT 4D6 TUT  
773 TU3  
773 357 367 4T3 NN3 447 46D 3D5 4DT 4D6 TUA  
773 354 37T 4T3 NN3 446 474 43N 3D3 4DT 4D5 TUU  
773 354 37T 4AD NN3 434 3DT TTA N34 TTA ND4 TT5 335 N3D 4T3 NN3 435  
474 43N 3D3 4DT III BT 4D5 476 3UN TAD  
773 357 4T4 NN3 447 3D5 4DT 4D6 TUT  
773 353 4T3 NN3 446 467 3D3 4DT 4D6 TUA  
773 TUU  
773 357 367 4T3 NN3 446 474 43N 3D3 4DT 4D5 TU6  
773 357 373 4T3 NN3 446 3D3 4DT 4D6 734 N47 3UD AR  
A HR MSG GA  
7G NR 0855 CK 42 35 1010 1552 =  
N5U .TN.. TAD N54 7TT TT. 7 T. 7T5 7TA 4TA  
N7D N3. 7T5 4TN NAN 74D 345 N3U 7A3 777  
TAU 773 TA7 773 TAD 773 TAN 773 TUT 773  
TU3 773 TU4 773 TU5 773 7AD N47 3AN 7U5 AR  
(Switched to voice USB - Male)

---

8073 kHz, 12-10, 0023 UTC, i.p.

TAU 3U4 3A4 TAU  
773 TA7  
773 TAD  
773 TU5  
773 357 373 4T3 NN3 447 46D 3D5 4DT 4D6 TAN  
773 TUT  
773 357 373 4TU NN3 436 467 3D5 4DT 4D6 4D6 TUA  
773 TUU  
773 357 367 4T3 NN3 446 474 43D 3D4 4DT 4D5 TU3  
773 357 373 4T3 NN3 447 474 43N 3D5 4DT 4D5 TU4  
773 357 373 4T3 NN3 447 474 43D 3D5 4DT 4D5 TU6  
773 353 37U 4T4 NN3 446 3D3 4DT 4D6 TU7  
773 TUN N34 T33  
773 356 4AD NN3 434 3DT TTA N34 TTA ND4 TT. 4DT 4D6 AR AR  
A HR R MSG AGN  
NR 0861 CK 34 35 1012 0707 = =  
TAT N5U TAU N53 TT6 N54 7TT TT7 746 7T5  
77T DN3 7T7 TAU 773 TA7 773 TAD 773 TAN  
773 TUT 773 TU3 773 TU4 773 TU5 773 7AN  
7AD N47 3A4 7U5 AR AR  
GA NW  
NR 0861 CK 34 35 1012 0707 = = (Repeats message) AR AR  
(Switched to voice USB – Female operator)

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8073 kHz, 12-10, 1137 UTC

V BNGC (x3) DE XSV85  
HR 7G GA PSE CY  
NR 0862 CK 246 35 1012 1622 == =  
TAU 3U6 3AN 3U7 TAU  
773 TA7  
773 TAD  
773 TU4  
773 TU5  
773 357 373 4T3 NN3 447 3D5 4DT 4D6 TAN  
773 TUT  
773 357 37U 4T3 NN3 436 4D7 3D4 4DT 4D6 TUA  
773 TUU  
773 354 367 4T3 NN3 446 474 43D 3D4 4DT 4D5 TU3  
773 354 36D 4T3 NN3 447 474 43D 3D5 4DT 4D6 TU6  
773 353 4T3 NN3 446 3D3 4DT 4D6 TU7  
773 TUN N34 T33  
773 356 4T4 NN3 434 3DT TTA N34 TTA ND3 TT5 4DT 4D6 3UD TAD  
773 357 37U 4T3 NN3 447 3D5 335 N3D 4T3 III BT NN3 446 467 3D4 4DT 4D6 TAN  
773 TUT  
773 357 37U 4T3 NN3 436 467 3D4 335 N3D 4T3 NN3 446 3D3 4DT 4D6 TU6  
773 353 4T4 NN3 446 3D3 4DT 4D6 TU7  
773 353 4T4 NN3 445 3DT TTU 4DT 4D6 TUN 34T 337  
773 356 4T3 NN3 434 3DT TTA N34 TTA ND4 TT. 4DT 4D6 734 N47 3U7 3UN TAU  
773 TA7  
773 TU4  
773 TU5  
773 357 4T4 NN3 436 467 3D4 4DT 4D6 TAD  
773 TUU  
773 TU3  
773 353 4T4 NN3 446 3D3 4DT 4D6 TAN  
773 TUT  
773 353 4T4 NN3 III BT 435 466 3DT TTU 4DT 4D6 TUA  
773 TU6  
773 TU7  
773 753 354 365 4T3 NN3 435 467 3D3 4DT 4D6 TU7  
773 75. 354 367 4T5 4 T3NN3 446 474 43D 3D4 4DT 4D5 TUN N34 T33  
773 353 4A6 NN3 445 3DU 4DT 4D6 AR AR AR  
7G AGN  
NR 0862 CK 246 35 1012 1622 == = (Repeats message)

8073 kHz, 14-10, 0005 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
NR 0863 CK 88 35 1013 0708 = =  
TA3 3U4 3A4 TAU  
773 TA7  
773 TU4  
773 TU5  
773 357 37U 4T3 NN3 447 3T. 4DT 4D6 TA.  
773 TAN  
773 TUT  
773 357 37U 4T3 NN3 446 467 3D4 4DT 4D6 TUA  
773 TUU  
773 354 365 4T3 NN3 446 474 43D 3D3 4DT 4D6 TU3  
773 354 365 4T3 NN3 436 474 43D 3D5 4DT 4D6 TU6  
773 353 373 4T3 NN3 446 3D3 4DT 4D6 TU7  
773 TUN N34 T33  
773 356 4TN NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 AR AR  
NR 0863 CK 88 35 1013 0708 = = (Repeats message)

8073 kHz, 16-10, 0005 UTC

V BNGC (x3) DE XSV85 (x2)  
HR 7G GA PSE CY (0009z)  
NR 0873 CK 130 35 1016 0718 =  
TA6 3U4 3A4 TAU 773 356 4T3 NN3 447 46D 3D5  
4DT 4D6 TA7 773 TU4 773 356 4T3 NN3 436 467  
4D6 TAD 773 356 4T4 NN3 (Cont'd)

8073 kHz, 10-10, 0008 UTC

V BNGC (x3) DE XSV85 (x2)  
HR 7G GA PSE CY  
NR 0852 CK 127 35 1010 0747 = = =  
TAT 3U4 3A4 TAU  
773 TA7  
773 353 4T3 NN3 446 467 3D4 344 N3D 4.. NN3 44. 746D 3D5 4DT 4D6 TAD  
773 TAN  
773 TU3  
773 TU4  
773 353 37U 4TU NN3 435 46T 3DT TTU 345 N3D 4.. NN3 447 3D5 4DT 4D6  
TUT  
773 357 373 4.. NN3 446 474 43D 3D3 343 N3D 4TU NN3 447 46D 3D5 4DT  
4D6 TUA  
773 357 373 4T3 NN3 435 474 43D 3DT TTU 4DT 4D6 TUU  
773 353 4AD NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU5  
773 356 4AD NN3 445 3DU 345 III = = = N3D 4TU NN3 447 3D5 4DT 4D6 TU6  
773 TU7  
773 TUN N34 T33  
773 356 4AD NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 AR  
NR 0853 CK 41 35 1010 0748 =  
TAT N5U TAT N53 TT6 N54 7TT TT3 746  
7T5 7TA 4TA N7D N35 7T5 4TN NAN 74D  
343 N3. .... TAU 773 TA7 773 TAD 773 TAN  
773 TUT 773 TU3 773 TU4 773 TU5 773  
7AD N47 3A4 7U5 AR  
7G AGN  
NR 0852 CK 127 35 1010 0747 =

8073 kHz, 15-10, 0004 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
NR 0871 CK 108 35 1015 0708 =  
TA5 3U4 3A4 TAU  
773 TU5  
773 356 4T3 NN3 446 3D4 4DT 4D6 TA7  
773 TU4  
773 356 463 NN3 446 3D3 4DT 4D6 TAD  
773 356 4T4 NN3 445 3DU 4DT 4D6 TAN  
773 TUT  
773 353 37U 4T4 NN3 445 3DU 4DT 4D6 TUA  
773 357 373 4T4 NN3 435 474 43D 3DT TTU 4DT 4D5 TUU  
773 TU3  
773 353 37U 4T4 NN3 445 3D3 4DT 4D6 TU6  
773 356 4T3 NN3 435 466 3DT TTU 4DT 4D6 TU7  
773 353 4TU NN3 435 3DT TTU 4DT 4D6 TUN N34 T33  
773 353 4A5 NN3 434 III BT 3DT TTA N34 TTA ND4 TT5 4DT 4D6 AR (0015z)  
7G AGN  
NR 0871 CK 108 35 1015 0708 = =  
TA5 3U4 3A4 TAU  
773 (Cont'd repeat message)  
AR (Switched to V26 - Male operator at 0023z)

8073 kHz, 17-10, 1141 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSGS GA PSE CY  
NR 0875 NR 0875 CK 28 CK 28 35 EEE  
NR 0875 NR 0875 CK 28 CK 28 35 1016 1016 1632 1632 = =  
TAT N5U TA6 N53 TAD N54 7TT TTU 746 7T5  
77T DN3 7T7 TAU 773 TA7 773 TU4 773 TU5  
773 TU6 773 7AD N47 3AN 7U5 AR  
A HR MSG GA  
NR 0876 NR 0876 CK 398 CK 398 35 35 1016 0006 1633 1633 = =  
T.6 3U6 3AN 3U7 TAU 773 357 373 4T3 NN3 (Cont'd)

8073 kHz, 22-10, 1135 UTC

V BNGC (x3) DE XSV85 (x2)  
HR 7G ...  
NR 0897 CK 14. 35 1022 15.9 =  
... 3U7..773 ..

---

8073 kHz, 23-10, 1142 UTC

V BNGC (x3) DE XSV85 (x2)  
HR 7G GA PSE CY  
NR 0909 CK 188 35 1023 1540 =  
TU3 UT5 3AN 3U7 TAU 773 353 37U (Cont'd)  
AR AR  
MSG AGN  
NR 0909 CK 188 35 1023 1540 =  
TU3 UT5 3AN 3U7 TAU 773 (Cont'd)

---

8073 kHz, 25-10, 0005 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
NR 0912 CK 125 35 1025 0702 =  
TU5 3U4 3A4 TAU 773 TA7 773 357 37U 463  
NN3 446 467 3D4 4DT 4D6 TAD 773 347 373  
4T4 NN3 446 3D3 336 N3D 4T4 NN3 445 3DU  
4DT 4D6 TAN 773 TUT 773 353 37U 35N 4A7  
NN3 445 3DU 4DT 4D3 TUA 773 TUU 773 353  
463 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT  
4D6 TU3 773 TU4 773 357 37U 463 NN3 445  
4D6 TU6 773 TU7 773 356 463 NN3 445 3DU  
4D6 TUN 773 T3T 773 T3U 773 III  
T43 57 373 463 NN3 435 474 437 3DT 7U4  
DT 4D6 T3A 773 T33 773 353 37U 4T3 NN3  
445 474 437 3DU 4DT 4D6 AR AR  
MSG AGN  
NR 0912 CK 125 1025 0702 = (Repeats message)

---

8073 kHz, 25-10, 1151 UTC

V BNGC (x3) DE XSV85 (x2)  
HR 7G GA PSE CY (1153z)  
NR 0913 CK 193 35 1025 1615 = =  
T53 U63 A.3U7 TAU 773 TA7 773 357 373 (Cont'd)

---

8073 kHz, 27-10, 0001 UTC

4D6 TU4 773 TU5 773 356 4T3 NN3 445 3DU  
346 N3D 4T3 NN3 446 3D3 4DT 4D6 TUN 773  
T3T 773 T3U 773 353 4T3 NN3 435 3DT TTU  
4DT 4D6 AR AR  
MSG AGN NR 0916 NR 0916 CK 142 35 1027 0701 = =  
TU7 3U4 3A4 TAU 773 357 373 35N 4T3 NN3 (Cont'd)

---

8073 kHz, 27-10, 1129 UTC

V BNGC (x3) DE XSV85 (x2)  
HR 7G GA PSE CY  
NR 0917 CK 219 35 1027 1611 = = =  
TU7 3U6 3AN 3U7 TAU 773 353 4T3 NN3 446 467 (Cont'd)

---

8073 kHz, 28-10, 1136 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY (1138z)  
NR 0919 CK 208 35 1028 1543 = =  
TUD 3U6 3AN 3U7 TAU 773 357 37U 4T3 NN3 (Cont'd)

---

8073 kHz, 28-10, 0007 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSG GA PSE CY  
NR 0918 NR 0918 CK 98 CK 98 35 35 1028 1028 0710 0710 = =  
TUD 3U4 3A4 TAU 773 TA7 773 353 403 NN3  
446 3D3 4DT 4D6 TAD 773 356 4T3 NN3 435  
466 3DT TTU 4DT 4D6 TAN 773 TUT 773 356  
4T3 NN3 445 3DU 4DT 4D6 TUA 773 TUU 773  
356 4T3 NN3 445 3DU 4DT 4D6 TU3 773 356  
4T4 NN3 445 3DU 4DT 4D6 TU4 773 TU5 773  
353 4T3 NN3 446 467 3D3 4DT 4D6 TU6 773  
TU7 773 T3A 773 T33 773 356 4T4 NN3 445  
3DU 4DT 4D6 TUN 773 T3T 773 T3U 773 353  
37U 4T3 NN3 435 3DT TTU 4DT 4D6 AR  
MSG AGN MSG AGN  
NR 0918 NR 0918 CK 98 CK 98 35 35 1028 1028 0710 0710 = =  
(Repeats message)

---

8073 kHz, 29-10, 1138

V BNGC (x3) DE XSV85 (x2)  
HR MSGS GA PSE CY  
NR 0922 CK 276 35 1029 1620 =  
TUN 3U6 3A. (Cont'd) AR AR  
MSG AGN  
NR 0922 CK 276 35 1029 BT EEEEE EEEEE NR EEEEE  
NR 0923 CK 44 35 1029 1623 =  
NR 0922 CK 276 35 1029 1620 =  
TUN 3U6 3AN 3U7 TAU 773 356 35D 4T7 (Cont'd) AR AR AR  
7G GA  
NR 0923 CK 44 35 1029 1623 =  
TAT N5U TUN N53 TAD N54 7TT TTU 746 7T5  
77T 6T6 4TA (Cont'd)

---

8073 kHz, 30-10, 0007 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSGS GA PSE CY  
NR 0924 CK 169 35 1030 0705 =  
.. 3A4 ...773 357 363 (Cont'd) AR  
MSG AGN MSG AGN  
NR 0925 CK 42 35 1030 0715 =  
T4. N5U T3T N53 TT6 N54 7TT TT3 746  
7T5 7TA 4TA N7T N35 7T5 4TN NAN 74D  
343 N3U 7A3 777 TAU 773 TA7 773 TAD  
773 TAN 773 3A4 7U5 AR AR  
MSG AGN MSG AGN  
NR 0924 CK 169 35 1030 0705 =  
T4T T3T 3U4 3A4 TAU 773 (Cont'd)

---

8073 kHz, 30-10, 1141 UTC

V BNGC (x3) DE XSV85 (x2)  
HR MSGS GA PSE CY  
HR 7GS GA PSE CY  
NR 0926 CK 251 35 1030 1603 = =  
T3T 3U6 3AN 3U7 TAU 773 357 4T3 NN3 447 (Cont'd) AR AR  
MSG AGN  
NR 0926 CK 251 35 1030 1603 = =  
T3T 3U6 3AN 3U7 TAU 773 357 4T3 NN3 447 (Cont'd) AR AR  
HR MSG NR 0927 CK 42 35 1030 1605 = =  
TAT N5U T3T N53 TAD N54 7TT TT4 746 7T5  
7TA 4TA N7D N35 7T5 4TN NAN 74D (Cont'd) AR AR  
MSG NR 0927 CK 42 35 1030 1605 = =  
TAT N5U T3T N53 TAD N54 7TT TT4 746 7T5  
7TA 4TA N7D N35 7T5 4TN NAN 74D 343 N3U  
7A3 777 TAU 773 TA7 773 TAD 773 TAN 773  
TUT 773 TU3 773 TU4 773 TU5 773 7AD N47  
3AN 7U5 AR AR

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## UM10 - 10-minutes net

3392 kHz, 01-10, 2117 UTC FX7T  
 3340 kHz, 04-10, 1208 UTC BG5Y (Uses 05 and 35 time slots)  
 3363 kHz, 06-10, 1144 UTC BG5Y  
 3329 kHz, 07-10, 1855 UTC WORZ //3987 kHz  
 3329 kHz, 20-10, 1559 UTC WORZ  
 3363 kHz, 23-10, 1837 UTC BG5Y

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## DIGITAL MODES



*HM01*

*Dirección General de Inteligencia*

HM01 oddities

### **5855 kHz, 18-10, 0457 UTC**

74029 51407 83053 82459 01563 87106 stopped at 0503z during a RDFT message and into 74029 51407 83053 etc again.  
 Files transmitted in RDFT: 36467402.F1G 50405140.F1C 01278305.TXT 30568245.TXT 36060156.TXT 21528710.TXT

### **8135 kHz, 22-10, 2245 UTC**

HM01 instead of M08a. Another transmitter being tuned on top of HM01 signal at 2247z. HM01 sig off at 2248z. On again, sending yesterday's 1600z sked groups. At 2307z M08a but HM01 signal continues.

### **11435 kHz, 29-10, 1550 UTC**

Tuned transmitter; no callup, no tuning tones, starts at 3rd callup group. Then 14748 48835 53871 55027 36883 67784 at 1604z. After half-way break starts with complete callup and tuning tones & into traffic.

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*HM02*

### **7351 kHz, 01-10, 0452 UTC**

FSK transmission followed by Morse at 0454 UTC

999 249 34 =

37589 24952 51497 20107 08930 77941 95207 81298 36933 04650  
 15920 07463 29404 04500 72483 54376 35660 69482 24490 41213  
 84353 97812 68500 09276 46114 13080 91979 68559 71489 24 273  
 50869 93271 45432 03197 =

249 34 249 34 =

37589 24952 51497 20107 08930 77941 95207 81298 36933 04650  
 15920 07463 29404 04500 72483 54376 35660 69482 24490 41213  
 84353 97812 68500 09276 46114 13080 91979 68559 71489 24 273  
 50869 93271 45432 03197 =

249 34 000

### 7351 kHz, 03-10, 0508 UTC

FSK transmission followed by Morse at 0509 UTC

999 861 32 =

27702 72372 82433 74146 45358 77749 62490 68504 16446 73315

46413 54581 52586 75824 23677 80929 20715 91790 62605 28622

71092 53317 36218 16821 28100 11977 92786 94352 24298 20062

46373 49191 =

861 32 861 32 =

27702 72372 82433 74146 45358 77749 62490 68504 16446 73315

46413 54581 52586 75824 23677 80929 20715 91790 62605 28622

71092 53317 36218 16821 28100 11977 92786 94352 24298 20062

46373 49191 =

861 32 000

### 7351 kHz, 07-10, 0503 UTC

Carrier up at 0459 UTC, FSK at 0503 UTC, carrier off 0505 UTC. No morse transmission

## M42 & X06



### Modes:

Various digital modes, CW,  
Tones (Мазенка / Mazielka)

## Russian Government, PtP & Intelligence



### M42 – various modes

3300 kHz, 08-10, 0507 UTC

5369.8 kHz, 14-10, 0622 UTC

5894.8 kHz, 14-10, 0622 UTC

19376 kHz, 21-10, 0954 UTC

15812 kHz, 31-10, 1115 UTC

13497 kHz, 31-10, 1215 UTC

17512 kHz, 31-10, 1241 UTC

19867 kHz, 31-10, 1313 UTC

6863 kHz, 31-10, 1626 UTC

RUA41 de RUU76 ZHC ? ZHC? in CW and traffic in FSK 100/1000

RND72 De RWV73 ZHC? ZHC? in CW and traffic in FSK 100/1000

RWV73 de RND72 ZHC? ZHC? in CW and traffic in FSK 100/1000

Russian Intel. Very long message. Mode: Hybrid MFSK80

Russian Intel. Very long message. Mode: Hybrid MFSK80

Russian Intel. Very long message. Mode: Hybrid MFSK80

Russian Intel. Very long message. Mode: Hybrid MFSK80

Russian Intel. Very long message. Mode: Hybrid MFSK80

Russian Intel. Very long message. Mode: Hybrid MFSK80

The hybrid MFSK80 mode (5 x 16-tone MFSK + 250Bd BPSK) that was introduced in 2013, but seldom heard since that time, was back on the 31<sup>st</sup> and copied by Danix. A recording of the mode can be found on the N&O website:

<http://www.numbersoddities.nl/M42-Russian-Intel-MFSK-PSK-19851kHz.mp3>

M42b – FSK 50/500 =50= separator. Traffic in FSK 50/500 and ops chat in CW.

5936 kHz, 12-10, 1815 UTC

6988 kHz, 12-10, 1816 UTC

5941 kHz, 14-10, 0331 UTC

4861 kHz, 22-10, 1224 UTC

4881 kHz, 22-10, 1226 UTC

5252 kHz, 22-10, 1231 UTC

5034 kHz, 22-10, 0901 UTC

14456 kHz, 23-10, 0801 UTC

KU8I de PGUN QSY 68278

PGUN de KU8I QSA NO QSY 60889 K

PRAT wkg MKDW in CW, messages in FSK 50/500

GDVA de VLKH QLP 20 K

VLKH wkg GDVA in CW, messages in FSK 50/500

VLKH wkg GDVA in CW, messages in FSK 50/500

VKGO de NCVZ QSA 1 QSY 86608 K

SVPH de FXKA QSW 79534 K



14441 kHz, 23-10, 0807 UTC  
 9274 kHz, 23-10, 0716 UTC  
 3873 kHz, 26-10, 0549 UTC  
 4581 kHz, 26-10, 0611 UTC  
 4571 kHz, 26-10, 0617 UTC

FXKA wkg SVPH in CW, messages in FSK 50/500. Ends with: QRU NIL SK  
 K4MT wkg NT9P in CW, messages in FSK 50/500. Ends with: QRU NIL SK  
 QSA 3 QTC 1 ends with CFM QRU NIL SK  
 WKEX QSA ? K and QLO 10 K  
 WKEX QSA 3 QYC 1 K

4035 kHz, 26-10, 0635 UTC

i.p. 11166 42525 98660 ... = 527 30 = K.  
 CFM QTC 1 QRV ? K  
 NW = 528 30 = 52046 47026 37283 35436 66184 .... = 528 30 K  
 CFM QRU ? K  
 OK QRV K  
 R 492 0633 K  
 R 246 0644 K  
 QRX 51487 51487 51806 51806 K  
 CFM NIL SK 05311 NCVZ : M42b 0838 CW NCVZ Wkd VKGO (VKGO de NCVZ QSA QSY 84608  
 K and BK QSA 4 K and OK QLP 20 K) (Dx) 26 oct. 15 (C\_A)

5331 kHz, 26-10, 0844 UTC  
 5322 kHz, 26-10, 1703 UTC  
 5271 kHz, 26-10, 0745 UTC  
 5046 kHz, 27-10, 1301 UTC  
 5046 kHz, 27-10, 1305 UTC  
 5086 kHz, 27-10, 1308 UTC  
 4903 kHz, 27-10, 0619 UTC  
 5328 kHz, 28-10, 0625 UTC

NCVZ wkg VKGO in CW, messages in FSK 50/500. Ends with: CFM NIL SK  
 ZE4K wkg P8RK in CW, messages in FSK 50/500. Ends with: QRU NIL SK  
 QSA 3 QTC1 K  
 VLKH wkg GDVA in CW, messages in FSK 50/500. Ends with: QLP10 K  
 VLKH wkg GDVA in CW, messages in FSK 50/500. Ends with: QLP40 K  
 VLKH wkg GDVA in CW, messages in FSK 50/500. Ends with: QRU NIL SK  
 i.p. 5FGs CFM NIL SK  
 WL4I wkg BFRW in CW, messages in FSK 50/500. QTC 1 K. ZTH ZTH K. NW 214 100 K.  
 CFM NIL SK

K4MT-NT9P net. André found out that there is a relation between the QRX codes that this net transmits and the transmission times. You can calculate the transmission times using the last four figures. See below. Great job, André.

QRX 89594 = 1300 89594 1300	QRX 89794 = 1500 89794 1500	QRX 89924 = 1700 89924 1600
QRX 89514 = 1320 89514 1320	QRX 89724 = 1530 89724 1530	QSW 87492 = 9208 8749 ? ? ?
QRX 89694 = 1400 89694 1400	QRX 89894 = 1600 89894 1600	QRX 89834 = 1640 89834 1640
QRX 89614 = 1420 89614 1420	QRX 89814 = 1620 89814 1620	QRX 89044 = 1900 89044 1900
QRX 89634 = 1440 89634 1440	QRX 89834 = 1640 89834 1640	QRX 71289 = 2330 71289 2330

M42c – FSK 200/500. Frequencies mentioned are in USB = center frequency -2 kHz

8005/5842/4631 kHz, 01-10, 1900/1910/1920 UTC	RYRYRY )5761 00000+++++++162
19524/17461/15822 kHz, 03-10, 1200/1210/1220 UTC	RYRYRY )5761 00000+++++++162
11460/9224/7827 kHz, 03-10, 1810/1820/1830 UTC	RYRYRY )5761 00000+++++++162
8005/5842/4631 kHz, 08-10, 1900/1910/1920 UTC	RYRYRY )5761 00000+++++++162
17461/15822 kHz, 10-10, 1210/1220 UTC	RYRYRY )5761 00000+++++++162
11460/9224/7827 kHz, 10-10, 1810/1820/1830 UTC	RYRYRY )5761 00000+++++++162
8005/5842/4631 kHz, 15-10, 1900/1910/1920 UTC	RYRYRY )5761 00000+++++++162
19524/17461/15822 kHz, 17-10, 1200/1210/1220 UTC	RYRYRY )5761 00000+++++++162
11460/9224/7827 kHz, 17-10, 1810/1820/1830 UTC	RYRYRY )5761 00000+++++++162
8005/5842/4631 kHz, 22-10, 1900/1910/1920 UTC	RYRYRY )5761 00000+++++++162
19524/17461/15822 kHz, 24-10, 1200/1210/1220 UTC	RYRYRY )5761 00000+++++++162
11460/9224/7827 kHz, 24-10, 1810/1820/1830 UTC	RYRYRY )5761 00000+++++++162
9300 kHz, 26-10, 1539 UTC	Continuous "464646"

8005/5842/4631 kHz, 29-10, 1900/1910/1920 UTC	RYRYRY )5761 00000+++++++162
19524/17461/15822 kHz, 31-10, 1200/1210/1220 UTC	RYRYRY )5761 00000+++++++162
11460/9224/7827 kHz, 31-10, 1810/1820/1830 UTC	RYRYRY )5761 00000+++++++162

**11134/9072/7721 kHz, 07-10, 1840/1850/1900 UTC**

RYRYRYRY

=8551 67078915540071571  
 =8002 90984709381297247  
 =8413 51292159655204944  
 =8294 94689347059956313  
 =8195 39472268527968743  
 =8716 27108087613211052  
 =8447 57672605699277484  
 =8538 12412820512017398  
 =8359 513201827794358155  
 =85210 71401624075790987  
 =81311 784069684296253134  
 =87412 765817466770345109  
 =84513 33495989596096645  
 =84414 636153652875340102  
 =84715 925510392995547129  
 =80016 43693695113985634  
 =80717 4275657184348115  
 =82618 663724154786982140  
 =85119 154045243057216114  
 =76520 23046434940907488  
 =92221 24180996101287297  
 =78222 312225793085959128  
 =83923 3782497058162171  
 =83324 24420440700000084  
 )58125 ++++++++37

M42d – FSK 200/1000. Frequencies mentioned are in USB = center frequency -2 kHz

Link 16404 / 16405

**20171/18204/16119 kHz, 28-10/29-10, 0800/0810/0820 UTC**

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

Block No 1 : Link ID 16404 : 13th of month : Msg Number 227 : Msg Type 07145 : Group Count (?) 186

32816 20129 37728 33424 64146 33922 65118 19003

Link 20492

**19537/17521/15894 kHz, 14-10/28-10, 0915/0925/0935 UTC**

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

Block No 1 : Link ID 20492 : 14th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

29444 00000 00000 01634 43186 35768 00893 23024

Link 20501

**13424/11114/9173 kHz, 06-10, 1650/1700/1710 UTC**

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

Block No 1 : Link ID 20501 : 6th of month : Msg Number 002 : Msg Type 06889 : Group Count (?) 4

21152 00000 32768 03165 26517 33743 00893 54123

**14857/12182/10271 kHz, 11-10, 1530/1540/1550 UTC**

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

Block No 1 : Link ID 20501 : 11th of month : Msg Number 130 : Msg Type 07145 : Group Count (?) 4

56988 00000 00000 03685 12857 02415 00893 57311

**13424/11114/9173 kHz, 13-10, 1650/1700/1710 UTC**

Block No 0 : Total Message Size 1 blocks : This transmission contains 0 messages.

Block No 1 : Link ID 20501 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4  
39180 00000 00000 02654 12857 36056 00893 14875

**14857/12182/10271 kHz, 18-10, 1530/1540/1550 UTC**

Block No 0 : Total Message Size 26 blocks : This transmission contains one message.

Block No 1 : Link ID 20501 : 16th of month : Msg Number 130 : Msg Type 07145 : Group Count (?) 168  
51852 39524 15234 18414 21447 03053 10746 20073

**13424/11114/9173 kHz, 20-10, 1650/1700/1710 UTC**

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

Block No 1 : Link ID 20501 : 19th of month : Msg Number 145 : Msg Type 07145 : Group Count (?) 172  
31840 31319 19853 13226 21447 02179 12489 24146

**13424/11114/9173 kHz, 21-10, 1650/1700/1710 UTC**

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

Block No 1 : Link ID 20501 : 19th of month : Msg Number 145 : Msg Type 07145 : Group Count (?) 172  
31840 31319 19853 13226 21447 02179 12489 24146

**14857/12182/10271 kHz, 25-10, 1530/1540/1550 UTC**

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

Block No 1 : Link ID 20501 : 25th of month : Msg Number 132 : Msg Type 07145 : Group Count (?) 4  
46316 00000 00000 00949 32012 36804 00893 32525

**13424/11114/9173 kHz, 27-10, 1650/1700/1710 UTC**

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

Block No 1 : Link ID 20501 : 27th of month : Msg Number 147 : Msg Type 07145 : Group Count (?) 4  
51653 00000 00000 03737 21447 34384 00893 38067

Link 32799

**20609/18581/16324 kHz, 20-10, 1400/1410/1420 UTC**

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

Block No 1 : Link ID 32799 : 19th of month : Msg Number 097 : Msg Type 07145 : Group Count (?) 174  
65344 10505 42255 34284 14796 36090 12661 40990

**20609/18581/16324 kHz, 21-10, 1400/1410/1420 UTC**

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

Block No 1 : Link ID 32799 : 19th of month : Msg Number 097 : Msg Type 07145 : Group Count (?) 174  
65344 10505 42255 34284 14796 36090 12661 40990

**20609/18581/16324 kHz, 27-10, 1400/1410/1420 UTC**

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

Block No 1 : Link ID 32799 : 27th of month : Msg Number 100 : Msg Type 07145 : Group Count (?) 4  
55565 00000 00000 01079 09187 04018 00893 17875

Link 32816

**19266/17546/15777 kHz, 28-10/29-10, 0600/0610/0620 UTC**

Block No 0 : Total Message Size 62 blocks : This transmission contains one message.

Block No 1 : Link ID 32816 : 24th of month : Msg Number 060 : Msg Type 07145 : Group Count (?) 167  
57836 44921 42786 35192 62441 04585 26342 20120

Link 32821

**22961/20459/18354 kHz, 17-10, 1520/1530/1540 UTC**

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

Block No 1 : Link ID 32821 : 17th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4  
39180 00000 00000 02555 13740 34095 00893 49935

**22961/20459/18354 kHz, 24-10, 1520/1530/1540 UTC**

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

Block No 1 : Link ID 32821 : 24th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4  
39180 00000 00000 00782 13740 33516 00893 38091

**18354 kHz, 31-10, 1520 UTC**

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

Block No 1 : Link ID 32821 : 31st of month : Msg Number 057 : Msg Type 07145 : Group Count (?) 4  
39181 00000 00000 03491 13740 34950 00893 36941

Link 36882

**15626/13383 kHz, 04-10, 1110/1120 UTC**

Msg Nr 067/2nd Type 07145 on Link 36882

33844 12245 08446 06946 34728 40567 53101 47276

**17421/15626/13383 kHz, 10-10, 1100/1110/1120 UTC**

Block No 0 : Total Message Size 30 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 9th of month : Msg Number 070 : Msg Type 07145 : Group Count (?) 198  
54852 11765 15954 05431 31234 00642 17255 54680

**17421/15626/13383 kHz, 17-10/18-10, 1100/1110/1120 UTC**

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

Block No 1 : Link ID 36882 : 16th of month : Msg Number 072 : Msg Type 07145 : Group Count (?) 174  
10716 12885 64955 06255 37098 35332 43186 43041

**17421/15626/13383 kHz, 24-10, 1100/1110/1120 UTC**

Block No 0 : Total Message Size 93 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 23rd of month : Msg Number 075 : Msg Type 07145 : Group Count (?) 136  
41588 15605 31069 06838 43092 10239 15667 03519

**17421/15626/13383 kHz, 31-10, 1100/1110/1120 UTC**

Block No 0 : Total Message Size 26 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 30th of month : Msg Number 077 : Msg Type 07145 : Group Count (?) 164  
13425 00725 60784 05804 48247 36632 45590 34178

Link 45057

**16266/14484 kHz, 10-10, 0910/0920 UTC**

Block No 0 : Total Message Size 26 blocks : This transmission contains one message.

Block No 1 : Link ID 45057 : 9th of month : Msg Number 190 : Msg Type 07145 : Group Count (?) 168  
32500 63201 64926 05101 44730 03864 63915 54397

**18917/16266/14484 kHz, 24-10, 0910/0920/0930 UTC**

Block No 0 : Total Message Size 26 blocks : This transmission contains one message.

Block No 1 : Link ID 45057 : 9th of month : Msg Number 190 : Msg Type 07145 : Group Count (?) 168  
32500 63201 64926 05101 44730 03864 63915 54397

Link 45075

**16229 /14627 kHz, 14-10, 0810/0820 UTC**

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

Block No 1 : Link ID 45075 : 14th of month : Msg Number 077 : Msg Type 07145 : Group Count (?) 4  
06088 00000 00000 00891 26649 33775 00893 19190

**18544/16229 /14627 kHz, 21-10, 0800/0810/0820 UTC**

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

Block No 1 : Link ID 45075 : 21st of month : Msg Number 057 : Msg Type 07145 : Group Count (?) 4  
32488 00000 00000 03026 26649 34792 00893 01121

**18544/16229/14627 kHz, 28-10, 0800/0810/0820 UTC**

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

Block No 1 : Link ID 45075 : 28th of month : Msg Number 122 : Msg Type 07145 : Group Count (?) 4  
15973 00000 00000 00465 26649 33500 00893 23806

Link 45079

**5461 kHz, 19-10, 0420 UTC**

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

Block No 1 : Link ID 45079 : 19th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4  
30356 00000 00000 02708 42071 34183 00893 63908

Link 45114 / 45115

**16315/14431 kHz, 11-10, 0810/1820 UTC**

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

Block No 1 : Link ID 45114 : 9th of month : Msg Number 047 : Msg Type 07145 : Group Count (?) 240  
09016 01764 27152 38568 57479 35452 34549 22213

**18039/16315/14431 kHz, 24-10, 0800/0810/0820 UTC**

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

Block No 1 : Link ID 45115 : 23rd of month : Msg Number 050 : Msg Type 07145 : Group Count (?) 96  
37576 05604 43547 36939 06443 01494 47839 26078

**18039/16315/14431 kHz, 25-10, 0800/0810/0820 UTC**

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

Block No 1 : Link ID 45115 : 23rd of month : Msg Number 050 : Msg Type 07145 : Group Count (?) 96  
37576 05604 43547 36939 06443 01494 47839 26078

Link 45136 / 45137

**11171/9244/7609 kHz, 01-10, 1200/1210/1220 UTC**

Block No 0 : Total Message Size 56 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 30th of month : Msg Number 055 : Msg Type 07145 : Group Count (?) 175  
17897 63745 10578 35327 55182 00441 59045 58927

**10539/8111/6789 kHz, 02-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45136 : 2nd of month : Msg Number 107 : Msg Type 07145 : Group Count (?) 4  
21424 00000 00000 03620 65099 35862 00893 48622

**10539/8111/6789 kHz, 05-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45136 : 2nd of month : Msg Number 060 : Msg Type 07145 : Group Count (?) 245  
63352 22114 28632 08062 55182 03194 47318 30368

**11171/9244/7609 kHz, 05-10, 1200/1210/1220 UTC**

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

Block No 1 : Link ID 45136 : 2nd of month : Msg Number 060 : Msg Type 07145 : Group Count (?) 245  
63352 22114 28632 08062 55182 03194 47318 30368

**10539/8111/6789 kHz, 06-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45137 : 5th of month : Msg Number 062 : Msg Type 07145 : Group Count (?) 225  
33800 53104 05645 19907 01146 32798 56182 59514

**11171/9244/7609 kHz, 06-10, 1200/1210/1220 UTC**

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

Block No 1 : Link ID 45137 : 5th of month : Msg Number 062 : Msg Type 07145 : Group Count (?) 225  
33800 53104 05645 19907 01146 32798 56182 59514

**10539/8111/6789 kHz, 07-10, 0700/0710/0720 UTC**

Block No 0 : Total Message Size 42 blocks : This transmission contains one message.

Block No 1 : Link ID 45137 : 6th of month : Msg Number 067 : Msg Type 07145 : Group Count (?) 23  
05700 10773 04921 15174 09959 40437 09061 09411

**11171/9244/7609 kHz, 07-10, 1200/1210/1220 UTC**

Block No 0 : Total Message Size 42 blocks : This transmission contains one message.

Block No 1 : Link ID 45137 : 6th of month : Msg Number 067 : Msg Type 07145 : Group Count (?) 23  
05700 10773 04921 15174 09959 40437 09061 09411

**10539/8111/6789 kHz, 08-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45136 : 7th of month : Msg Number 070 : Msg Type 07145 : Group Count (?) 227  
36620 05860 32200 09144 65099 01907 42769 08509

**11171/9244/7609 kHz, 08-10, 1200/1210/1220 UTC**

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

Block No 1 : Link ID 45136 : 7th of month : Msg Number 070 : Msg Type 07145 : Group Count (?) 227  
36620 05860 32200 09144 65099 01907 42769 08509

**10539/8111/6789 kHz, 09-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45136 : 9th of month : Msg Number 167 : Msg Type 07145 : Group Count (?) 4  
36408 00000 00000 03386 65099 34948 00893 60241

**10539/8111/6789 kHz, 12-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45136 : 9th of month : Msg Number 075 : Msg Type 07145 : Group Count (?) 253  
36696 64985 01833 16174 55182 02499 09975 18981

**11171/9244/7609 kHz, 12-10, 1200/1210/1220 UTC**

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

Block No 1 : Link ID 45136 : 9th of month : Msg Number 075 : Msg Type 07145 : Group Count (?) 253  
36696 64985 01833 16174 55182 02499 09975 18981

**10539/8111/6789 kHz, 13-10, 0700/0710/0720 UTC**

Block No 0 : Total Message Size 57 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45137 : 12th of month : Msg Number 077 : Msg Type 07145 : Group Count (?) 183  
56732 50624 58800 38077 01146 36545 14068 62919

**11171/9244/7609 kHz, 13-10, 1200/1210/1220 UTC**

Block No 0 : Total Message Size 57 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45137 : 12th of month : Msg Number 077 : Msg Type 07145 : Group Count (?) 183  
56732 50624 58800 38077 01146 36545 14068 62919

**10539/8111/6789 kHz, 15-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45136 : 14th of month : Msg Number 085 : Msg Type 07145 : Group Count (?) 93  
40268 40833 61480 27663 65099 00308 62200 26156

**11171/9244/7609 kHz, 15-10, 1200/1210/1220 UTC**

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

Block No 1 : Link ID 45136 : 14th of month : Msg Number 085 : Msg Type 07145 : Group Count (?) 93  
40268 40833 61480 27663 65099 00308 62200 26156

**10539/8111/6789 kHz, 16-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45137 : 16th of month : Msg Number 227 : Msg Type 07145 : Group Count (?) 4  
49216 00000 00000 02028 07583 33896 00895 32704

**10539/8111/6789 kHz, 19-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45137 : 16th of month : Msg Number 090 : Msg Type 07145 : Group Count (?) 43  
40032 06885 44277 13034 01146 07218 09933 04425

**11171/9244/7609 kHz, 19-10, 1200/1210/1220 UTC**

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

Block No 1 : Link ID 45137 : 16th of month : Msg Number 090 : Msg Type 07145 : Group Count (?) 43  
40032 06885 44277 13034 01146 07218 09933 04425

**10539/8111/6789 kHz, 20-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45136 : 19th of month : Msg Number 092 : Msg Type 07145 : Group Count (?) 173  
12076 34983 04826 31310 58024 36245 00376 05056

**11171/9244/7609 kHz, 20-10, 1200/1210/1220 UTC**

Block No 0 : Total Message Size 57 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 19th of month : Msg Number 092 : Msg Type 07145 : Group Count (?) 173  
12076 34983 04826 31310 58024 36245 00376 05056

**10539/8111/6789 kHz, 21-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45136 : 20th of month : Msg Number 097 : Msg Type 07145 : Group Count (?) 243  
17896 39601 29657 27714 55182 33481 59857 09880

**11171/9244/7609 kHz, 21-10, 1200/1210/1220 UTC**

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

Block No 1 : Link ID 45136 : 20th of month : Msg Number 097 : Msg Type 07145 : Group Count (?) 243  
17896 39601 29657 27714 55182 33481 59857 09880

**10539/8111/6789 kHz, 22-10, 0700/0710/0720 UTC**

Block No 0 : Total Message Size 57 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 21st of month : Msg Number 100 : Msg Type 07145 : Group Count (?) 185  
63352 25712 09447 38068 55182 02247 35550 38322

**11171/9244/7609 kHz, 22-10, 1200/1210/1220 UTC**

Block No 0 : Total Message Size 57 blocks : This transmission contains 6 messages.

Block No 1 : Link ID 45136 : 21st of month : Msg Number 100 : Msg Type 07145 : Group Count (?) 185  
63352 25712 09447 38064 55182 02247 35550 38322

**10539/8111/6789 kHz, 23-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45136 : 23rd of month : Msg Number 097 : Msg Type 07145 : Group Count (?) 4  
23772 00000 00000 00249 65099 33783 00893 30992

**10539/8111/6789 kHz, 26-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45136 : 23rd of month : Msg Number 105 : Msg Type 07145 : Group Count (?) 223  
27608 06452 32000 31264 55182 01931 50194 60776

**11171/9244/7609 kHz, 26-10, 1200/1210/1220 UTC**

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

Block No 1 : Link ID 45136 : 23rd of month : Msg Number 105 : Msg Type 07145 : Group Count (?) 223  
27608 06452 32000 31264 55182 01931 50194 60776

**10539/8111/6789 kHz, 27-10, 0700/0710/0720 UTC**

Block No 0 : Total Message Size 52 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 26th of month : Msg Number 107 : Msg Type 07145 : Group Count (?) 155  
17845 50755 05830 35489 55182 33086 31552 61892

**11171/9244/7609 kHz, 27-10, 1200/1210/1220 UTC**

Block No 0 : Total Message Size 52 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 26th of month : Msg Number 107 : Msg Type 07145 : Group Count (?) 155  
17845 50755 05830 35489 55182 33086 31552 61892

**10539/8111/6789 kHz, 28-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45136 : 27th of month : Msg Number 112 : Msg Type 07145 : Group Count (?) 17  
64229 21780 18726 28746 55182 39204 22793 51366

**11171/9244/7609 kHz, 28-10, 1200/1210/1220 UTC**

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

Block No 1 : Link ID 45136 : 27th of month : Msg Number 112 : Msg Type 07145 : Group Count (?) 17  
64229 21780 18726 28746 55182 39204 22793 51366

**10539/8111/6789 kHz, 29-10, 0700/0710/0720 UTC**

Block No 0 : Total Message Size 58 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 28th of month : Msg Number 115 : Msg Type 07145 : Group Count (?) 189  
35961 24423 57376 06058 58024 02432 19317 46887

**11171/9244/7609 kHz, 29-10, 1200/1210/1220 UTC**

Block No 0 : Total Message Size 58 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 28th of month : Msg Number 115 : Msg Type 07145 : Group Count (?) 189  
35961 24423 57376 06058 58024 02432 19317 46887

**10539/8111/6789 kHz, 30-10, 0700/0710/0720 UTC**

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

Block No 1 : Link ID 45137 : 30th of month : Msg Number 102 : Msg Type 07145 : Group Count (?) 4  
38777 00000 00000 00851 01146 35724 00893 62086



Link 49202

**18592 kHz, 21-10, 1020 UTC**

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

Block No 1 : Link ID 49202 : 21st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4  
22796 00000 00000 02201 28271 34948 00893 03678

**22861/20672/18592 kHz, 28-10, 0915/0925/0935 UTC**

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

Block No 1 : Link ID 49202 : 28th of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4  
40605 00000 00000 00740 28271 04070 00893 10081

Link 49237

**15839/13374/11106 kHz, 08-10, 1330/1340/1350 UTC**

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

Block No 1 : Link ID 49237 : 8th of month : Msg Number 047 : Msg Type 07145 : Group Count (?) 4  
63888 00000 00000 00862 54891 36755 00893 43460

**15839/13374/11106 kHz, 15-10, 1330/1340/1350 UTC**

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

Block No 1 : Link ID 49237 : 15th of month : Msg Number 165 : Msg Type 07145 : Group Count (?) 4  
47348 00000 00000 00963 58545 00125 00893 24669

**15839/13374/11106 kHz, 22-10, 1330/1340/1350 UTC**

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

Block No 1 : Link ID 49237 : 22nd of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4  
15320 00000 00000 01389 44260 35164 00893 17291

**15839/13374 kHz, 29-10, 1330/1340 UTC**

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

Block No 1 : Link ID 49237 : 29th of month : Msg Number 127 : Msg Type 07145 : Group Count (?) 4  
15321 00000 00000 03565 44260 33656 00893 31721

X06 - Mazielka

Code	Freq	Date	UTC	Details
X06b	12108	28-9-2015	1835	Mazielka. Sequence: 1--6--
X06	17468	1-10-2015	0654	Mazielka. Sequence: 436512
X06	19405	1-10-2015	1235	Mazielka. Sequence: 352416
X06	16132	1-10-2015	1242	Mazielka. Sequence: 352416
X06	16320	2-10-2015	0621	Mazielka. Sequence: 241563
X06	14570	2-10-2015	0827	Mazielka. Sequence: 324615
X06	18197	2-10-2015	0933	Mazielka. Sequence: 645321
X06	19511	3-10-2015	0733	Mazielka. Sequence: 314265
X06	14970	3-10-2015	0900	Mazielka. Sequence: 216354
X06	18245	3-10-2015	1023	Mazielka. Sequence: 231654
X06	19878	3-10-2015	1028	Mazielka. Sequence: 231654
X06b	11464	3-10-2015	0500	Mazielka. Sequence: 1--6--
X06b	9064	3-10-2015	0501	Mazielka. Sequence: 1--6--
X06b	13376	4-10-2015	1632	Mazielka. Sequence: 1--6--
X06	14631	5-10-2015	0807	Mazielka. Sequence: 362154
X06	16103	5-10-2015	1020	Mazielka. Sequence: 645321
X06	14547	5-10-2015	1037	Mazielka. Sequence: 645321
X06	12199	5-10-2015	1537	Mazielka. Sequence: 532614
X06	17454	6-10-2015	1140	Mazielka. Sequence: 325614
X06	11462	6-10-2015	0805	Mazielka. Sequence: 165423
X06	20336	6-10-2015	0909	Mazielka. Sequence: 246531
X06	16153	8-10-2015	0833	Mazielka. Sequence: 153624
X06	13506	8-10-2015	0949	Mazielka. Sequence: 164532

X06	10214	8-10-2015	1448	Mazielka. Sequence: 263145
X06	10535	8-10-2015	1520	Mazielka. Sequence: 564213
X06	10635	9-10-2015	0847	Mazielka. Sequence: 356412
X06	19611	9-10-2015	0956	Mazielka. Sequence: 256134
X06	14358	9-10-2015	1024	Mazielka. Sequence: 154263
X06	12213	9-10-2015	1032	Mazielka. Sequence: 615243
X06	14650	9-10-2015	1221	Mazielka. Sequence: 215346
X06b	13368	10-10-2015	0629	Mazielka. Sequence: 1--6-- followed by test tones at 0632 UTC
X06	15710	11-10-2015	1219	Mazielka. Sequence: 261453
X06	13517	12-10-2015	0929	Mazielka. Sequence: 463125
X06	14683	12-10-2015	1254	Mazielka. Sequence: 364152
X06b	10243	12-10-2015	1818	Mazielka. Sequence: 1--6--
X06	13506	13-10-2015	0809	Mazielka. Sequence: 534216
X06	14547	13-10-2015	1406	Mazielka. Sequence: 645321
X06b	16338	13-10-2015	1406	Mazielka. Sequence: 1--6--
X06b	10343	13-10-2015	1838	Mazielka. Sequence: 6
X06	13369	14-10-2015	0737	Mazielka. Sequence: 412356
X06	13419	14-10-2015	0757	Mazielka. Sequence: 465132
X06	12109	14-10-2015	1659	Mazielka. Sequence: 431625
X06	13448	15-10-2015	0747	Mazielka. Sequence: 162543
X06	13448	15-10-2015	0801	Mazielka. Sequence: 162543
X06	18575	15-10-2015	1234	Mazielka. Sequence: 352416
X06	14570	16-10-2015	0829	Mazielka. Sequence: 324615
X06	16103	16-10-2015	0942	Mazielka. Sequence: 645321
X06	18197	16-10-2015	0947	Mazielka. Sequence: 645321
X06	12215	16-10-2015	1002	Mazielka. Sequence: 361245
X06	12178	16-10-2015	1013	Mazielka. Sequence: 645321
X06	16103	16-10-2015	1104	Mazielka. Sequence: 645321
X06	18197	16-10-2015	1106	Mazielka. Sequence: 645321
X06	14377	19-10-2015	0750	Mazielka. Sequence: 432516
X06	14845	19-10-2015	0805	Mazielka. Sequence: 641523
X06	13452	19-10-2015	0814	Mazielka. Sequence: 165324
X06	13395	19-10-2015	1559	Mazielka. Sequence: 532614
X06	11462	20-10-2015	0757	Mazielka. Sequence: started as 165432 and ended with 165423
X06	14650	21-10-2015	1107	Mazielka. Sequence: 215346
X06	13506	22-10-2015	0955	Mazielka. Sequence: 164532
X06	11561	22-10-2015	1413	Mazielka. Sequence: 263145
X06	10535	22-10-2015	1530	Mazielka. Sequence: 564213
X06	13423	26-10-2015	0902	Mazielka. Sequence: 421635
X06	16117	26-10-2015	0937	Mazielka. Sequence: 463125
X06	9923	26-10-2015	0951	Mazielka. Sequence: 431625
X06	15656	26-10-2015	1244	Mazielka. Sequence: 364152
X06	8131	26-10-2015	1929	Mazielka. Sequence: 164532
X06	16317	27-10-2015	1027	Mazielka. Sequence: 612534
X06	16317	27-10-2015	1036	Mazielka
X06	13510	27-10-2015	1043	Mazielka. Sequence: 612534
X06	13510	27-10-2015	1051	Mazielka. Sequence: 612534
X06	13420	27-10-2015	1123	Mazielka. Sequence: 534216
X06	18177	28-10-2015	0751	Mazielka. Sequence: 164253
X06	18660	28-10-2015	1133	Mazielka. Sequence: 621543
X06	12224	30-10-2015	1104	Mazielka. Sequence: 615243

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XPA

**9362/8062/7462 kHz, 01-10, 1900/1920/1940 UTC**

304 304 304 000

05739 00001 00000 10140

**10868/12168/13368 kHz, 03-10, 0600/0620/0640 UTC**

813 813 813 000

01424 00001 00000 10140

**9362/8062/7462 kHz, 06-10/08-10, 1900/1920/1940 UTC**

304 304 304 1

00767 00267 22170 17710 87206 85008 10100 78608 06773 40678  
96928 14048 59102 30209 31031 80018 54284 21596 44119 58248  
61426 88060 58836 05790 40223 75036 68078 05096 65054 71337  
07637 43030 96610 91968 52287 75090 48622 38901 14253 79464  
42509 42284 49725 29929 45504 18672 48097 45829 89684 49008  
62258 51407 91780 83202 21769 58662 45766 54520 30025 65215  
99811 82284 69657 99992 84356 24308 13421 71603 81328 19310  
29797 53280 63230 44119 82877 77518 53281 18176 27866 17916  
44022 44450 80350 78417 94776 14243 36311 00452 49302 53025  
19517 65629 33381 74515 62407 99354 56304 25542 57566 73177  
55822 04194 54978 56427 97624 66105 82880 41659 76822 06435  
19032 49053 32524 12946 07620 22531 16518 07763 17317 89985  
16390 76583 46051 88321 76699 02446 69989 18201 02689 51228  
46754 96137 93789 02719 07303 58304 96499 64910 94572 34026  
01719 71916 17450 70603 67632 40523 31425 59479 75541 65223  
24675 21302 23013 33905 95079 90402 90375 85760 73429 65061  
20880 09160 36169 59494 05367 91930 97849 96634 78262 15509  
73259 74084 35404 26966 68815 08907 10449 30479 25048 35557  
01188 37431 06115 38777 06394 94356 89404 13660 26873 86902  
55072 75620 04966 28015 51275 23088 33114 16028 86949 90538  
99101 90219 13147 43678 43350 91019 70303 82514 57292 75575  
74138 18999 03952 87761 45332 03301 75898 26418 36025 04746  
01794 86825 16739 20686 84990 93916 35603 14532 23188 43298  
48814 90324 21439 91476 58865 16576 26799 03521 76052 38040  
62238 29540 07877 21666 01144 08775 18598 28400 55429 67477  
09272 76530 14220 35285 48177 63094 79039 80799 40297 11004  
65608 23170 37685 16050 25335 09490 62451 83042 32827 17437

**10868/12168/13368 kHz, 07-10, 0600/0620/0640 UTC**

813 813 813 000

06515 00001 00000 10140

**9362/8062/7462 kHz, 13-10, 1900/1920/1940 UTC**

304 304 304 000

01885 00001 00000 10140

**10868/12168/13368 kHz, 14-10/17-10, 0600/0620/0640 UTC**

813 813 813 1

04521 00175 12055 05986 14394 38077 04872 21783 18227 79438  
18629 02433 21480 78718 08900 80670 60922 80155 22893 11060  
98246 01476 59717 12701 39101 13867 71573 65127 05078 38319  
49662 70153 91522 29375 65118 59815 16837 89757 71767 82803  
03858 47729 58847 32801 60958 89773 31871 81125 87299 74741  
15234 81628 73931 47800 14612 48098 73339 79913 03282 42736  
78969 95705 10517 44519 69133 43022 63173 56263 72874 41365  
25029 10121 28309 50278 58089 63197 24003 44426 44873 97365  
23601 40629 37300 99971 06662 32307 65701 05458 24955 87447  
99375 07433 91827 28311 04414 80306 27913 82876 47325 51252  
70912 01291 74520 93463 04161 13238 22957 59868 19854 78631  
02964 25699 52544 96515 41198 76112 38697 15476 30899 34187  
17150 90219 39421 68319 76869 15376 83461 10041 98120 33649  
15201 50857 00728 98363 91748 67642 35454 66155 98175 46188  
09441 01275 66421 54367 04952 25233 37036 89544 50956 97893  
11211 62665 62766 28827 41122 11365 07330 60117 95773 38539  
20884 70962 50912 93900 33137 49286 89329 47733 41011 32014  
97378 50749 67762 07876 47401 52569 29234 51416

**10868/12168/13368 kHz, 21-10, 0600/0620/0640 UTC**

813 813 813 000

04183 00001 00000 10140

**10868/12168/13368 kHz, 23-10, 0600/0620/0640 UTC**

813 813 813 000

05145 00001 00000 10140

**9362/8062/7462 kHz, 27-10, 1900/1920/1940 UTC**

304 304 304 000

02338 00001 00000 10140

**10868/12168/13368 kHz, 28-10, 0600/0620/0640 UTC**

813 813 813 000

01542 00001 00000 10140

**9362/8062/7462 kHz, 29-10, 1900/1920/1940 UTC**

304 304 304 000

01318 00001 00000 10140

**10868/12168/13368 kHz, 31-10, 0600/0620/0640 UTC**

813 813 813 000

04214 00001 00000 10140



XPA2

**17264/16114/14828 kHz, 02-10, 1400/1420/1440 UTC**

06210 00001 00000 10140

**16147/14947/14447 kHz, 02-10, 1500/1520/1540 UTC**

02481 00001 00000 10140

**17264/16114/14828 kHz, 03-10, 1400/1420/1440 UTC**

02422 00001 00000 10140

**16338/14538/13538 kHz, 04-10, 1500/1520/1540 UTC**

04488 00001 00000 10140

**16147/14947/14447 kHz, 04-10, 1500/1520/1540 UTC**

08217 00001 00000 10140

**16338/14538/13538 kHz, 06-10/11-10, 1500/1520/1540 UTC**

00962 00093 24053 43690 29038 91176 04173 85637 29286 60236  
67946 29969 89965 78071 65925 86104 17622 75928 10610 21632  
04840 46158 70205 68628 16358 35418 65425 71026 09584 41519  
95995 49565 75154 88896 27783 32461 85435 49909 78466 26352  
08479 02688 76924 74637 41038 10756 97960 99448 09687 60476  
22746 44698 58433 01889 43420 22139 26666 54277 26354 91858  
49886 36682 49977 69854 59897 29245 44352 17083 70559 86246  
78139 84271 57291 85185 63362 50671 96261 11878 73110 22928  
16079 28766 49528 64395 58835 62893 82277 36161 55824 88775  
30088 88344 79103 71140 70692 22006

**17264/16114/14828 kHz, 09-10/10-10, 1400/1420/1440 UTC**

07485 00067 98568 00451 26038 60056 77426 03180 40191 09988  
51186 11461 86216 07741 26232 73498 03153 42739 04000 36373  
84528 81569 55497 32125 12231 90580 66525 63107 66650 23881  
63142 13488 80495 71704 49751 04614 76900 60193 39318 00031  
52044 12101 59136 64706 53045 14589 98719 89327 07293 02446  
73151 25558 34959 72828 09179 12741 07814 53858 44554 79852  
55778 97885 34863 87277 60220 84636 51793 80838 85035 52154

**16147/14947/14447 kHz, 09-10, 1500/1520/1540 UTC**

01327 00001 00000 10140

**16147/14847/14447 kHz, 11-10, 1500/1520/1540 UTC**

04962 00001 00000 10140

**16338 kHz, 13-10, 1500 UTC**

08128 00001 00000 10140

**16338/14538/13538 kHz, 13-10, 1500/1520/1540 UTC**

08128 00001 00000 10140

**16284 kHz, 16-10, 0700 UTC**

03885 00001 00000 10140

**17264/16114/14828 kHz, 17-10, 1400/1420/1440 UTC**

05952 00001 00000 10140

**16338/14538/13538 kHz, 18-10, 1500/1520/1540 UTC**

05436 00001 00000 10140

**16147/14947/14447 kHz, 18-10, 1500/1520/1540 UTC**

02037 00135 53084 87410 42966 29719 32084 51957 14816 58557  
12388 82534 31626 46217 08615 48048 47071 68307 14134 82589  
19126 96297 71766 44406 62891 94953 29130 78868 59109 46876  
46356 29982 04689 29633 48419 80640 12433 04201 72452 37041  
42469 87721 47933 96053 39950 92382 69256 57644 39640 28338  
76041 51153 45367 29641 47350 41784 63529 00761 27030 30274  
85767 74832 99036 81804 17737 40069 17345 73434 93779 42152  
01244 08855 20257 77852 75018 12994 60380 63906 91669 25777  
25361 90883 33550 86353 53992 24770 48814 03232 82405 03335  
55487 75656 01446 79295 08528 81993 86057 21438 03065 06949  
87097 21846 60087 03994 31941 90386 70318 73304 33547 33163  
13018 54572 66889 19010 67778 44809 25334 89745 31835 24827  
94125 10917 84293 00825 69783 60711 52231 34981 74491 65900  
64653 27219 41731 79033 86031 02985 49259 65644

**16284/18184/19584 kHz, 20-10/23-10, 0700/0720/0740 UTC**

00475 00121 31708 51141 64395 34813 27202 17845 12228 91839  
70744 83587 51810 67073 78595 47781 12051 19040 22963 67882  
14078 62497 97662 09512 50454 38045 71588 89655 49906 01838  
27802 27099 94339 27602 61752 54104 92139 71789 19878 42833  
07314 89075 15886 72641 57939 37505 76515 22350 63524 90876  
09168 23455 80596 96956 63381 94829 53871 44589 42348 01733  
60452 41007 78066 78879 40818 07530 51182 84179 27093 65561  
17496 91720 51798 49857 74261 76279 10064 81233 16897 21718  
57664 06565 40964 91852 77813 96410 21677 98555 80182 67175  
72968 84107 68617 11489 00131 17316 10669 90707 64637 57855  
77124 49980 99710 05308 28357 43108 58636 61593 07436 16232  
16928 01267 43466 56178 42121 73662 44845 97599 99623 13370  
06990 81713 35824 02523

**16338/14538/13538 kHz, 20-10/25-10/27-10, 1500/1520/1540 UTC**

08167 00069 97215 40389 07336 91194 44512 60785 62098 87526  
28773 16479 28200 83633 88237 82189 92351 86394 64539 78497  
48762 16191 66338 95402 43044 62874 41882 58162 26041 86618  
37283 72825 42521 15039 66756 06804 47191 00205 13077 69992  
37888 99295 84532 21931 58964 08445 32577 53653 49033 60863  
70609 29627 94770 91638 42928 20358 60677 62185 45074 52793  
00716 66477 43153 15287 95881 24254 93453 42970 03604 62409  
22327 15614

**17264/16114/14828 kHz, 23-10, 1400/1420/1440 UTC**

09192 00049 71525 11394 76142 87825 58998 42152 80147 62573  
26436 46853 66242 92373 38816 49640 43630 48992 47839 23487  
18816 15781 46948 92507 04937 61760 98046 51094 79653 47474  
51187 96055 84942 46645 70601 00295 08323 36892 10238 47055  
05286 47597 26547 44871 60560 43223 90808 57717 65044 12251  
04373 00767

**16147/14947/14447 kHz, 23-10, 1500/1520/1540 UTC**

01848 00001 00000 10140

**17264/16114/14828 kHz, 24-10, 1400/1420/1440 UTC**

08490 00000 00000 10140

**16147/14947/14447 kHz, 25-10, 1500/1520/1540 UTC**

07228 00001 00000 10140

**16284/18184/19584 kHz, 27-10, 0700/0720/0740 UTC**

09956 00001 00000 10140

**16284/18184/19584 kHz, 31-10, 0700/0720/0740 UTC**

08946 00001 00000 10140

**17264/16114/14828 kHz, 30-10/31-10, 1400/1420/1440 UTC**

00115 00089 18917 14790 21946 90676 70283 35688 92355 65182  
75481 49256 33478 94228 15988 42511 46365 17786 98013 29682  
59036 40389 55606 80085 34051 44703 48490 25550 42770 46006  
63443 31647 49181 65578 66626 46454 09085 90473 29347 27483  
27581 44627 04237 42336 11485 64730 20969 55076 97210 83213  
62116 38570 38076 12424 68687 60874 96025 56270 52611 36107  
70046 04361 48345 27040 07099 52215 30223 30573 13524 73672  
00254 16403 27735 73094 83875 96403 09769 80814 58291 53541  
70305 21022 20844 75717 05054 83637 81627 20199 39454 88131  
10646 20230

**16147/14947/14447 kHz, 30-10, 1500/1520/1540 UTC**

08530 00001 00000 10140



## Q26 Digital version of V26/M95

Mode: 4+4 QPSK 75/3000 LSB

Q26 is a temporary designator for the 4+4 QPSK mode that precedes V26 and M95. The messages are identical to the V26 and M95 messages.

8073 kHz, 01-10, 1133 UTC XSV85  
8073 kHz, 02-10, 1133 UTC XSV85  
8073 kHz, 03-10, 0001 UTC XSV85  
8073 kHz, 03-10, 0014 UTC XSV85  
8073 kHz, 06-10, 0001 UTC XSV85  
8073 kHz, 06-10, 1131 UTC XSV85  
8073 kHz, 07-10, 0001 UTC XSV85  
8073 kHz, 07-10, 1130 UTC XSV85  
8073 kHz, 08-10, 1139 UTC XSV85  
8073 kHz, 09-10, 1130 UTC XSV85  
8073 kHz, 10-10, 0001 UTC XSV85  
8073 kHz, 10-10, 1134 UTC XSV85  
8073 kHz, 11-10, 1132 UTC XSV85  
8073 kHz, 12-10, 1132 UTC XSV85  
8073 kHz, 13-10, 0001 UTC XSV85  
8073 kHz, 13-10, 1129 UTC XSV85  
8073 kHz, 14-10, 1129 UTC XSV85  
8073 kHz, 15-10, 0001 UTC XSV85 F BNGC BNGC BNGC DE VSF85 VSF85 HR MSG GA PSE CY \$ (see N&O 2017)

8073 kHz, 15-10, 1131 UTC XSV85 F BNGC BNGC BNGC DE VSF85 VSF85 HR MSG GA PSE CY  
8073 kHz, 16-10, 0001 UTC XSV85 digital message  
8073 kHz, 16-10, 1130 UTC XSV85 digital message  
8073 kHz, 17-10, 1131 UTC XSV85 digital message  
8073 kHz, 23-10, 1136 UTC XSV85 digital message  
8073 kHz, 25-10, 0001 UTC XSV85 digital message  
8073 kHz, 25-10, 1131 UTC XSV85 digital message  
7553 kHz, 26-10, 0903 UTC F BNEC BNEC BNEC DE VSF70 VSF70 HR MSG TO YR PSE NOTE CY NR990 CK142 35 1026 1533 –  
461 203 026 326 314 004 773 354 373 938 ...4+4 QPSK 75/3000 LSB(JPL-HK)  
8073 kHz, 27-10, 1131 UTC XSV85 digital message  
8073 kHz, 28-10, 0005 UTC XSV85 digital message  
8073 kHz, 28-10, 1130 UTC XSV85 digital message  
7553 kHz, 29-10, 0901 UTC XSV70 digital message4+4 QPSK 75/3000 LSB(JPL-HK)  
7553 kHz, 29-10, 0911 UTC XSV70 digital message4+4 QPSK 75/3000 LSB(JPL-HK)  
8073 kHz, 29-10, 1130 UTC XSV85 digital message  
8073 kHz, 30-10, 0001 UTC XSV85 digital message  
8073 kHz, 30-10, 1130 UTC XSV85 digital message

The voice callup before the 4+4 transmission on 15-10, 0001 UTC was:

**“DingHai this is 2933, we have a message for you. Please get ready to copy.”** (repeats several times)

Then he says, twice:

**“This electrical message is ready, please pay attention to copy.”**

The word message was said as "electrical message" in this case. It wasn't said that way during the call. Probably because a 4+4 transmission followed, so digital/electrical.

#### **8073 kHz, 15-10, 0001 UTC**

F BNGC BNGC BNGC DE VSF85 VSF85 F BNGC BNGC BNGC DE VSF85 VSF85  
F BNGC BNGC BNGC DE VSF85 VSF85 F BNGC BNGC BNGC DE VSF85 VSF85  
HR MSG GA PSE CY \$

NR0871 CK108 35 1015 0708 --

015 324 314 012 773 025 773 356 403 993  
446 384 480 486 017 773 024 773 356 403  
993 446 383 480 486 018 773 356 404 993  
445 382 480 486 019 773 020 773 353 372  
404 993 445 382 480 486 021 773 357 373  
404 993 435 474 438 380 002 480 485 022  
773 023 773 353 372 404 993 445 383 480  
486 026 773 356 403 993 435 466 380 002  
480 486 027 773 353 402 993 435 380 002  
4801486 029 934 033 773 353 415 993 434-1  
380 001 934 001 984 005 480 486

MSG AGN

NR0871 CK108 35 1015 0708 --

015 324 314 012 773 025 773 356 403 993  
446 384 480 486 017 773 024 773 356 403  
993 446 383 480 486 018 773 356 404 993  
445 382 480 486 019 773 020 773 353 372  
404 993 445 382 480 486 021 773 357 373  
404 993 435 474 438 380 002 480 485 022  
773 023 773 353 372 404 993 445 383 480  
486 026 773 356 403 993 435 466 380 002  
480 486 027 773 353 402 993 435 380 002  
480 486 029 934 033 773 353 415 993 434-1  
380 001 934 001 984 005 480 486

AHR CW WK \$



**7553 kHz, 26-10, 0903 UTC**

\*\*\*FFF BNEC BNEC BNEC DE VSF70 VSF70

F BNEC BNEC BNEC DE VSF70 VSF70

F BNEC BNEC BNEC DE VSF70 VSF70

F BNEC BNEC BNEC DE VSF70 VSF70

HR MSG TO YR PSE NOTE CY

NR990 CK142 35 1026 1533 --

461 203 026 326 314 004 773 354 373 938  
353 411 938 415 445 938 436 467 486 338  
758 482 382 005 773 354 373 938 353 418  
938 415 446 938 436 467 486 338 758 482  
382 938 383 006 773 354 373 938 353 418  
938 415 446 938 436 467 486 338 758 482  
382 008 773 353 938 354 372 418 938 420  
445 938 446 467 486 338 483 382 009 773  
353 938 354 372 418 938 415 445 938 446  
467 486 338 483 382 938 383 010 773 357-1  
411 938 403 445 938 446 467 486 758 483  
382 011 773 353 411 938 420 445 938 446  
486 758 483 382 012 773 357 403 446 486  
758 483 382 013 773 353 403 445 938 446  
486 382

MSG AGN

NR990 CK142 35 1026 1533 --

461 203 026 326 314 004 773 354 373 938  
353 411 938 415 445 938 436 467 486 338  
758 482 382 005 773 354 373 938 353 418  
938 415 446 938 436 467 486 338 758 482  
382 938 383 006 773 354 373 938 353 418  
938 415 446 938 436 467 486 338 758 482  
382 008 773 353 938 354 372 418 938 420  
445 938 446 467 486 338 483 382 009 773  
353 938 354 372 418 938 415 445 938 446  
467 486 338 483 382 938 383 010 773 357-1  
411 938 403 445 938 446 467 486 758 483  
382 011 773 353 411 938 420 445 938 446  
486 758 483 382 012 773 357 403 446 486  
758 483 382 013 773 353 403 445 938 446  
486 382

AHR MSG GA

NR991 CK198 35 1026 1533 --

461 203 026 326 004 773 318 353 415 938  
411 446 467 938 445 486 338 758 482 319  
357 411 938 420 445 938 447 486 338 758  
482 005 773 318 353 415 938 411 446 467  
938 445 486 338 483 319 357 411 938 420  
445 938 447 486 338 758 482 006 773 318  
353 415 938 407 446 467 938 445 486 338  
758 482 319 357 372 407 938 411 445 486  
338 758 482 008 773 318 353 420 938 407  
446 467 938 445 486 338 758 482 319 357-1  
372 407 938 411 445 486 338 758 482 009  
773 318 353 415 938 403 446 467 938 445  
486 338 483 319 357 372 403 938 418 445  
486 758 483 010 773 318 353 403 446 467  
938 445 486 338 483 319 353 403 938 407  
445 486 758 483 011 773 318 353 403 446  
467 938 445 486 319 353 403 938 407 445

486 012 773 318 353 403 446 467 486 319  
353 403 446 486 013 773 318 353 403 446  
486 319 353 403 938 407 446 486  
MSG AGN  
NR991 CK198 35 1026 1533 --  
461 203 026 326 004 773 318 353 415 938  
411 446 467 938 445 486 338 758 482 319  
357 411 938 420 445 938 447 486 338 758  
482 005 773 318 353 415 938 411 446 467  
938 445 486 338 483 319 357 411 938 420  
445 938 447 486 338 758 482 006 773 318  
353 415 938 407 446 467 938 445 486 338  
758 482 319 357 372 407 938 411 445 486  
338 758 482 008 773 318 353 420 938 407  
446 467 938 445 486 338 758 482 319 357-1  
372 407 938 411 445 486 338 758 482 009  
773 318 353 415 938 403 446 467 938 445  
486 338 483 319 357 372 403 938 418 445  
486 758 483 010 773 318 353 403 446 467  
938 445 486 338 483 319 353 403 938 407  
445 486 758 483 011 773 318 353 403 446  
\*\*\*FFF BNEC BNEC BNEC DE VSF70 VSF70  
F BNEC BNEC BNEC DE VSF70 VSF70  
F BNEC BNEC BNEC DE VSF70 VSF70  
F BNEC BNEC BNEC DE VSF70 VSF70

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POL FSK

All transmissions in FSK 100/625 unless other indicated.

**8803 kHz, 01-10, 1305/1310 UTC**

0437 0437 0437 0437 0437  
88888 88888 51466 03658 25953 97984 80136 01586 28231 81904  
80944 53393 94204 60894 37886 53617 76209 24557 45603 14488  
43506 26524 38072 01846 39038 27157 66021 82010 55555 82173  
32425 33664 27639 06355 16090 47340 42249 89848 97321 88888  
88888  
00041 00041

**6906 kHz, 05-10/08-10, 0800/0805 UTC**

0434 0434 0434 0434 0434  
88888 88888 73438 63234 41478 29390 47964 83306 93075 11631  
52056 50163 74388 77878 07859 79974 77905 78360 32301 96220  
70031 94845 32191 84014 85390 22779 97760 32645 00725 05485  
79153 81236 51765 11344 88888 88888  
00036 00036

**9339 kHz, 05-10/07-10, 0845/0850 UTC**

0353 0353 0353 0353 0353  
88888 88888 54595 03908 32431 61422 47594 99088 15241 83215  
24484 67407 81926 34855 35687 65625 69206 54286 02924 79743  
79977 32512 06968 95786 43303 66587 40563 82920 72716 05504  
03623 57443 88888 88888  
00034 00034

**9431 kHz, 06-10/09-10, 1005/1010 UTC**

0675 0675 0675 0675 0675

88888 88888 71936 05317 88127 38287 38845 76991 41299 51763  
40340 84704 24903 26710 64137 70338 17319 56309 98549 84769  
66391 10063 71058 59010 50872 13261 86798 40617 73598 79272  
51990 78423 15784 38130 66010 08216 66804 84631 05589 88888  
88888  
00041 00041

**5358 kHz, 19-10, 1305/1310 UTC**

0547 0547 0547 0547 0547

88888 88888 44826 01888 94222 93507 18324 64708 55371 28303  
11667 44233 98289 27191 91514 54351 88205 81512 78471 12660  
92339 19483 98042 26604 47933 43238 30741 28643 30923 63253  
31832 08584 84618 08159 76465 13644 74968 51609 62993 88888  
88888  
00041 00041

**10728 kHz, 20-10/22-10, 0630/0635 UTC**

0574 0574 0574 0574 0574

88888 88888 97804 42162 16087 23470 55237 21937 25926 25373  
46016 60984 70010 34971 05553 91753 84169 22547 92759 86558  
11128 69889 92697 46862 66917 85063 81579 09304 58697 84463  
75898 74341 86098 52428 88888 88888  
00036 00036

**7371 kHz, 20-10/23-10, 0900/0905 UTC**

0554 0554 0554 0554 0554

88888 88888 51805 11075 41545 39996 09389 15736 70099 87710  
50275 58377 67143 25292 74319 20177 07066 71863 99869 64230  
56086 01903 30641 83634 83926 03950 83828 84815 81597 66276  
09552 05338 82660 63096 27231 25291 88888 88888  
00038 00038

**15905 kHz, 26-10/29-10, 1000/1005 UTC**

0765 0765 0765 0765 0765

88888 88888 69647 37408 84493 86720 47630 57339 36905 36627  
56410 59806 12199 85290 64581 98649 16099 23671 01510 03245  
37751 86187 40428 95875 18011 83412 64883 13635 58460 93777  
99664 56134 86800 68676 88888 88888  
00036 00036

**10246 kHz, 27-10/30-10, 0655/0700 UTC**

0684 0684 0684 0684 0684

88888 88888 37661 89487 06154 12620 59658 50063 79288 90774  
67815 56103 76517 63968 96354 37625 92804 38051 20567 19317  
14922 77250 12151 90297 79509 39966 35959 43749 04774 56636  
99627 92393 29006 52285 88888 88888  
No group count on both dates!!!

**11092 kHz, 30-10, 0815/0820 UTC**

0446 0446 0446 0446 0446

88888 88888 58659 67920 12099 19749 27756 56549 66829 94831  
16078 78515 23257 98563 76796 54411 38091 95238 75253 16615  
44646 52203 15622 49719 66089 87149 09306 25656 72380 69402  
03026 62883 26303 88888 88888  
00035 00035

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## Egyptian diplomatic stations

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

19898.7 kHz, 25-09, 0505  
17415.0 kHz, 19-10, 1340  
20036.7 kHz, 23-10, 1624  
8067.7 kHz, 27-10, 2200  
10066.0 kHz, 27-10, 2245  
10067.7 kHz, 27-10, 2245

MFA Cairo, SITOR-A 100/170  
MFA Cairo broadcast in SITOR-A and SITOR-B. Msg to all embassies in clear text  
Egyptian Embassy, Kinshasa (wgzpkp) msg to MFA Cairo, SITOR-A 100/170  
Egyptian diplo encrypted traffic, SITOR-A 100/170  
99910 Egyptian MFA, Cairo calling 55501, embassy Havana, 80bd Codan Chirp  
MFA Cairo clg IPTX, embassy Havana, SITOR-A 100/170

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## Chinese military

Mode: 4+4 QPSK 75/3000 LSB

### **4099 kHz, 11-10, 1827 UTC**

E ?#/3 BHEX BHEX K QSA+  
V ZMCLV ZMCL ZMCL ZMCL DE BHEX BHEX BHEX K QSA+  
V ZMCL ZMCL ZMCL DE BHEX BHEX ) LSA+  
V ZMCL ZMCL ZMCL DE BHEX BHEX BHEX K QSA+

### **4099 kHz, 11-10, 1836 UTC**

V SMIT SMIT SMIT DE BHEX BHEX BHEX K QSA+  
V SMIT SMIT SMIT DE BHEX BHEX BHEX K QSA+  
V SMIT SMIT SMIT DE BHEX BHEX BHEX K QSA+

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## UTILITY ROUND-UP



## Armenian Air Defense

6450 kHz, 15-10, 1415 UTC Armenian Air Defense. Bearing/range reports

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## Unid stations

**6787 kHz, 04-10, 1329 UTC, hand sent morse. Probably Chinese military. Copied by JPL**

524 527 NW 55  
744 ..47 NW 56  
770 206 NW 57  
770 206 NW 58  
447 .8 NW 59  
4.7 258 NW .260  
447 258 NW 61  
447 258 NW 62  
447 259 .... =

DE USD4 OK ZNN GB 73 SK

WX63 WX63 WX63 DE XS66 XS66 XS66 QRK 29+?

4403 kHz, 13-10, 1407 UTC	VESTNIK (RMP) clg BURYEVESTNIK (RGR79) after activation by RMP : RGR79 de RMP QSU1 QSU 5745 QWH 4403 AR
8282 kHz, 13-10, 1753 UTC	BUKSOL wkg NAGORYE. Frequency activated by RMP on 4909.5 kHz
8282 kHz, 14-10, 0835 UTC	BUKSOL wkg NAGORYE , ZABOR (RBES), SEKUNDANT, GVODZIKA (RCV)

#### Russian Air Force - RAv

##### 6685 kHz, 01-10

1852 UTC Korsar USB w/82041 (Russian AF AN-124) reporting 4 hrs into flt w/67 tons of fuel & "ops normal".

1915 UTC 76778 (IL-76MD) USB calling Davlenie (Russian Air Force 708th Air Transport Regiment, 6958th Air Base, Taganrog) w/no response.

1935 UTC Korsar USB w/78807 (IL-76MD) reporting departure from (missed) at 2210 MSK w/63 tons fuel next is Buntar (Russian AB Orenburg). "Ops normal".

##### 11360 kHz, 01-10

1158 UTC Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov) USB w/78797 (IL-76MD) reporting 1 hr into flt w/31 tons fuel & "ops normal."

##### 18030 kHz, 01-10

1317 UTC Korsar USB w/76779 (IL-76MD--not heard). Korsar QSL's for unheard flt info.

1514 UTC Korsar UJSB w/76554 (IL-76MD--not heard) asking for info to be repeated. Nothing more heard.

##### 11360 kHz, 05-10

1140 UTC Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov) USB w/82039 (Russian AF AN-124) w/msg: 900/104/441/632/612/730/655/876/172/744/572/656/012/772/646/716/277/892/?51/335/880/281/875/002/ (?zapravka (fuel remainder)?) 175/704/007/836/510/376/149/679/208.

1202 UTC Korsar USB w/82037 (Russian AF AN-124) reporting departure from Raspiska (Russian AB Mozdok) at 1450 MSK w/165 tons fuel and on course for the waypoint.

1347 UTC Korsar USB w/76769 (IL-76MD) reporting departure from (missed) at 1635 MSK w/35 tons fuel next is Buntar (Russian AB Orenburg). Ops normal.

1349 UTC Korsar USB w/82039 w/ msg: 392/147/619/373/896/255/129/600/281. At 1434Z sends msg: 286/812/463/900/070/007/891/444/179.

1358 UTC Korsar USB w/82037 (Russian AF AN-124 reporting 2 hrs into flt w/120 tons fuel and passing waypoint (missed).

1526 UTC Korsar USB w/71747-(Russian AF AN-26) reporting departure from Chkalovskij at 1811 MSK w/4500 kgs fuel and next is Kanatnij (Russian AB, Ivanovo-North).

##### 6685 kHz, 05-10

1929 UTC Korsar USB w/76795 (IL-76MD) reporting 1 hr into flt w/63 tons fuel "ops normal" & next is Plavnik (Russian AB Shagol).

#### Russian Naval Air Transport - RNAv

11354 kHz, 01-10, 1703 UTC Zarechnij/Varechnij (unid Naval Air entity) USB w/85855 (Russian Navy TU-154) reporting landing at Levashovo.

#### Russian Air Defense - RADv

Tracking transmissions in Russian (USB and LSB).

4220 kHz, 01-10, 0701 UTC	4445 kHz, 06-10, 0623 UTC	4863 kHz, 15-10, 0814 UTC
4993 kHz, 05-10, 0541 UTC	5134.5 kHz, 06-10, 0724 UTC	4380 kHz, 15-10, 1620 UTC
5176 kHz, 05-10, 1235 UTC	5153 kHz, 06-10, 1225 UTC	
5202 kHz, 05-10, 1717 UTC	4038 kHz, 14-10, 0618 UTC	



## M32

### Russian / CIS Military CW Stations

19210 kHz, 04-10, 1233 UTC	XXX WEGI 36736 79567 BARATRONUS 5872 6985 K. // 18.1 kHz
5444 kHz, 06-10, 0514 UTC	XXX PABA NAPUWALXNYJ 4183 PORÂDKOWYJ 4808 K
5282.5 kHz, 06-10, 0533 UTC	XXX PABA NAPUWALXNYJ 4183 PORÂDKOWYJ 4808 K
5214.5 kHz, 06-10, 0533 UTC	XXX PABA NAPUWALXNYJ 4183 PORÂDKOWYJ 4808 K
5282.5 kHz, 06-10, 0535 UTC	XXX PABA ChPAT 5816
11465 kHz, 07-10, 0838 UTC	XXX XXX WEGI WEGI 95697 WYGONNYJ 7695 6084 K
3548 kHz, 09-10, 1543 UTC	XXX XXX WEGI WEGI 72730 88412 BROJOANIK 1628 4420 K
15934 kHz, 09-10, 1243 UTC	XXX WEGI 52524 BUZILXQIK 7792 0125 K
3835 kHz, 09-10, 1548 UTC	ONJTX 19137 DINOPLINKA 0510 9298 K
14439 kHz, 12-10, 0644 UTC	XXX XXX G5CX G5CX F2ET F2ET 24045 14027 RUNDUK 6373 9987
14439 kHz, 12-10, 0637 UTC	OBZU OBZU OBZU DE 7UA5 7UA5 K. XXX XXX WEGI WEGI 04189 TUKURINGA 9045 5161
14439 kHz, 12-10, 0639 UTC	XXX XXX WEGI WEGI 50212 KUNDAK 5660 1144
5366 kHz, 14-10, 0610 UTC	XXX WEGI 17151 GUSTOJ 9508 0190 K
4224 kHz, 15-10, 0721 UTC	XXX FP3E 0940 PASSAVIR 3452 7931 6308 K
2842 kHz, 15-10, 1751 UTC	XXX KIBY 60150 TABURET 4772 6579 K
4072 kHz, 19-10, 1612 UTC	XXX V7BR 14896 69022 MOLLIZIN 7717 0704 ZELENÂ 5650 3911 OBNOSS.. 9749 0547 K
4303 kHz, 20-10, 0819 UTC	XXX IFDD 00000 00000 K
6363 kHz, 20-10, 1530 UTC	XXX XXX WEGI 82377 PRONOVA 0511 4142
6363 kHz, 20-10, 1534 UTC	XXX XXX WEGI 80523 PROTRAWNOJ 5608 0572
6363 kHz, 20-10, 1536 UTC	XXX XXX RGT77 96586 ERUNOK 7165 9669
6363 kHz, 20-10, 1540 UTC	XXX XXX WEGI 12690 KORDA 9684 2477
6363 kHz, 20-10, 1542 UTC	XXX XXX SHEU 05077 22483 GRUM 0922 6968
3841 kHz, 21-10, 1519 UTC	XXX LOMO 25958 WODPOST 4167 8392 K
3807 kHz, 21-10, 1534 UTC	XXX WEGI 52573 PRUDONIST 5035 7131 K
4591 kHz, 21-10, 1624 UTC	XXX WEGI 65196 URONENNYJ 4041 0203 K
4621 kHz, 21-10, 1624 UTC	XXX WEGI 65196 URONENNYJ 4041 0203 K
4072 kHz, 21-10, 1630 UTC	XXX K1ZV XFDU 71642 92675 NIGILIZM 5383 2822 K
4498.5 kHz, 24-10, 1730 UTC	XXX REO KAUKA 17063 23383 02025 00355 70167 34204 70282 34284 00701 12030 K
4608.5 kHz, 21-10, 0446 UTC	XXX PABA WAEKYJ 823 K
4498.5 kHz, 24-10, 1745 UTC	XXX RDO91 11594 METILOWYJ 4721 3958 K
6183 kHz, 25-10, 1241 UTC	XXX 4HQP 16834 RETRONECIN 7557 1196 K
16228 kHz, 25-10, 0800 UTC	XXX LR43 TENIÔESKAA PROWERKA 592 K
8130 kHz, 25-10, 1238 UTC	WEGI 78659 94627 BAKONGO 9048 1316 K
7913 kHz, 25-10, 1240 UTC	LOMO LOMO 73732 GASILKA 8553 6002 K
4181 kHz, 26-10, 0553 UTC	XXX WEGI 91866 PROTECIT 9286 7436 K
4181 kHz, 26-10, 0600 UTC	XXX 1QRF 39565 KROPLENYJ 6103 3631 K
4181 kHz, 26-10, -609 UTC	XXX WEGI 66701 BRUTANA 9324 5052 K
4807 kHz, 26-10, 0640 UTC	XXX RLO WETER U 4 RAJONAM 67 Z8 I BEDOMU METER 4 ...ESA K
5378 kHz, 26-10, 0539 UTC	XXX VZFY 73192 GELFIN 0214 7198 K
4072 kHz, 28-10, 1556 UTC	XXX K1ZV XFDU 95430 17993 POJLER 0458 6974 K
4072 kHz, 28-10, 1719 UTC	XXX K1ZV XFFU 79750 10448 IGUMENXÂ 3136 1546 K
4909.5 kHz, 29-10, 1552 UTC	XXX RLO 53527 TALIKMIDON 5431 0595 K
3598 kHz, 29-10, 1558 UTC	XXX 49988 BRITOWÔIK 9300 4944 K
4456 kHz, 29-10, 1742 UTC	XXX WEGI 52116 RAZNOSTNYJ 2588 6436 K
4471 kHz, 29-10, 1741 UTC	XXX WEGI 52116 RAZNOSTNYJ 2588 6436 K
4489 kHz, 29-10, 1741 UTC	XXX WEGI 52116 RAZNOSTNYJ 2588 6436 K
2817 kHz, 29-10, 1753 UTC	XXX LOMO 23927 BESIOLE 11518 40595 PRIGOR XE 1551 4781 K

#### Same general call is used as S28: MDZhB which is in Russian morse MDVB

6811 kHz, 04-10, 1235 UTC	XXX XXX MDVB MDVB 28149 DINGI 6676 0085
4558 kHz, 07-10, 0723 UTC	XXX MDVB 63646 LILOWYJ 6746 1675 K XXX MDVB 33417 WILACHA 5813 2231 K
6193 kHz, 25-10, 1241 UTC	XXX MDVB 38673 NETWERDYJ 3912 0447 K
3636 kHz, 26-10, 0534 UTC	XXX MDVB 96822 NESUQIJ 3698 3417 K



*M32a*  
*Russian Navy*  
*Voyenno-Morskoy Flot Rossii*

5400.5 kHz, 01-10, 0400 UTC	RMRV de RMP QSA 3 QRV K
5224 kHz, 01-10, 0449 UTC	RCV wkg RIP90, RMBB, RGX94, RFH70, RBE86
15392 kHz, 01-10, 0513 UTC	RCV wkg RMBB
4810 kHz, 01-10, 0728 UTC	RMAE wkg RIQ83
5275 kHz, 01-10, 1537 UTC	RBEV wkg RMP
4498.5 kHz, 02-10, 1720 UTC	RMAE de RMP QYT4 QSX 4944 QWH 4118 AR
4944 kHz, 02-10, 1724 UTC	RMAE de RMP QYT4 QSX 4944 QWH 4118
4118 kHz, 02-10, 1724 UTC	RMAE de RMP QYT4 QSX 4944 QWH 4118
3797 kHz, 08-10, 0333 UTC	RIC87 de RCV QTC ...
5171 kHz, 08-10, 0541 UTC	RCV wkd RIR96, RMJA
10543 kHz, 09-10, 0842 UTC	RBE86 DE RCV QTC 594 36 6 1427 594 = NAWIP 038 2042 KARTA 32313 ITALIA UOENIA ...
5269.5 kHz, 19-10, 1301 UTC	XXX REO 30103 BATALXNYJ 2131 2149 K
8210 kHz, 22-10, 1230 UTC	XXX REO 05605 OSTROUHIJ 7606 6509 K (Bcast) //4909.5 kHz
8210 kHz, 22-10, 1234 UTC	XXX REO 36807 MARSILID 6799 1221 K (Bcast) //4909.5 kHz
8210 kHz, 22-10, 1256 UTC	XXX REO 89890 ZAOZERXE 0833 5249 K (Bcast) //4909.5 kHz

**4909.5 kHz, 09-10**

1246 UTC	RIO96 de RMP QYT9 QSX 4326 QWH 4109 AR
1250 UTC	XXX REO 07020 OGNECWET 6754 2455 K
1300 UTC	REB95 de RMP QTC 225 38 9 1555 225 = 22222 56753 43169 19848 42589 83670 94640 ...

**4909.5 kHz, 11-10**

1231 UTC	XXX REO 61827 AWIWAV 8066 9236 K. XXX REO 61144 SRAM OSLOW 8173 7172 K
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**4909.5 kHz, 13-10**

1352 UTC	XXX REO KAUKA 17023 23383 01655 00300 79863 37112 79089 36686 00701 11700 K 13 oct. 15 (F5JBR)
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**4909.5 kHz, 14-10**

0732 UTC	XXX REO 06469 HRIP 7438 4438 K
0738 UTC	XXX REO 14254 UMNOVENIE 6279 5349 K
0959 UTC	XXX REO 66662 BILEIN 2580 2321 K
1015 UTC	XXX RJD69 RDK96 RCD96 73404 BEZDELICA 0798 2677 K
1242 UTC	XXX RJD69 RDK96 RCD95 80386 ESMĀNIK 4041 7454 BŪROKATELL 8707 3249 BLIZOK 6628 2636 OBQNIK 7998 1328 K
1305 UTC	XXX RJD69 RDK96 RCD95 26803 ORGANIK 1140 9560 K
1310 UTC	XXX RJD69 RDK96 RCD95 46564 BRAMAK 6158 3661 K
1313 UTC	XXX RJD69 RDK96 RCD95 06098 BASKAK 3228 7028 K
1320 UTC	XXX RJD69 RDK96 RCD95 77959 ARDA 1339 4152 K
1324 UTC	XXX RJD69 RDK96 RCD95 76090 OPLYWOK 1692 6708 K
1331 UTC	XXX RJD69 RDK96 RCD95 82540 NITROFORM 6527 8649 K
1400 UTC	XXX RJD69 RDK96 RCD96 52596 ALABOR 4270 1991 K 14

**4909.5 kHz, 19-10**

0733 UTC	XXX REO 82633 SINISIT 3916 0509 K
1151 UTC	XXX REO KAUKA 30715 82534 01455 50011 10929 15877 15008 00701 11500 K

**4909.5 kHz, 20-10**

1552 UTC	XXX REO 35401 ARHIMECET 2731 6443 K
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**4909.5 kHz, 21-10**

0928 UTC	XXX REO 03640 PUTAGA 4911 9198 NEDOWESOK 9863 5998 K
0943 UTC	XXX REO 27691 ALOPIRIN 6003 1140 K



**4909.5 kHz, 22-10**

1130 UTC XXX REO 661863 ORLEAN 8605 6315 KONIÔESKIJ 3283 7846 K

**4909.5 kHz, 31-10**

1500 UTC XXX RJL96 39575 BRASSIST 8978 6438 K

**3816 kHz, 03-10, 1815 UTC**

RJC66 de RMWT 745 19 03 2110 745 =

SML FOR RJH45 RJD38 REG98 RIF4 =

03181 99599 10270 41/98/2017 10130 40173 54000 70202 8////47213 00130 20303 03013

= AR RMWT K

**3816 kHz, 09-10, 1752 UTC**

RJP38 de RMP ZNÉ NOLX NOLX ODIN ZNÉ ? K

RMP de RJP38 ZSL ZNÉ NOLX NOLX ODIN ZNÉ NOLX DWA ODIN ZSL ? K

RJP38 de RMP ZSL ZNÉ NOLX DWA ODIN ZKM ? K

RMP de RJP38 ZKM ZGR K

RJP38 de RMP ZSD GNGCh ZST MMVLK MKVKM VMKKM LMMML VMKMM

**4498.5 kHz, 09-10**

1817 UTC RMP WKD RJP38 (RJP38 de RMP QTC 748 25 9 2004 748 = LLLEE EÂÂÂ CCÂÂÂ MMMKK KIIS SSBBS ÔPQ EW  
WGEXS STPDF AÛPQI CÛBMV JUTWC KLCChU CIIÔU TÛÔChW GDGÂJ QPKAB ZEYZCh ZWSYÔ OAWXW TWBBQ  
CSBNE PÔAJ S OYFQG POPWR AR

0610 UTC RBHM de RMP QSU1 QXS 4109 QWH 4763 AR

0804 UTC RGR79 de RMP QSU1 QXS 4346 QWH 3870 AR

**5275 kHz, 09-10**

1202 UTC RMP de RBHM 841 18 9 1455 841 = SML FOR RJH45 RJD38 REG98 = 09121 99549 10192 42598 21305 10079  
40298 57022 81809 22272 00147 20201 88000 09013 = AR RBHM K

1204 UTC RMP de RBHM 223 62 9 1459 223 = SML FOR RJH45 RJD38 REG98 = KKXX 09105 1115/ 15447 01921 88882 20000  
31469 40737 20005 31468 40737 20010 31465 40736 20015 31459 40750 20020 31455 40753 20030 31451  
40763 20035 31460 40764 20036 31349 40759 20038 30996 40764 20040 30911 40768 20047 30608 40778  
20050 30590 40786 20060 30561 40861 20062 30549 40893 20080 30580 41059 20100 30709 41371 20104  
30714 41371 09057 = AR RBHM K and OK QRU K

1212 UTC RMP de RME81 QSA ? QTC K

1217 UTC RMP de RMWT QSA ? QTC K and 875 18 9 1507 875 = SML FOR RH45 RJD 38 REG98 = 09121 99574 10207 41598  
50205 12080 40279 54000 70202 832// 22243 10100 20101 09013 = AR RMWT K and OK QRU SK

1306 UTC RMP de RBHM QTC 935 59 9 1555 935 = SML FOR RJH45 RJD38 REG98 = KKXX 09105 1230/ 15500 01914 88882  
20000 31473 40738 20005 31473 40742 20010 31474 40739 20015 31474 40739 20020 31473 40734 20030  
31473 40751 20037 31499 40748 20039 31032 40746 20040 30944 40755 20045 30707 40765 20050 30620  
40772 2060 30558 40809 20060 30558 40809 20068 30543 40914 20080 30572 41075 20100 30709 41354 20102  
30709 41354 09054 = AR RBHM K

1311 UTC RJD69 de REB95 QSA ? K

**10540 kHz, 09-10, 0847 UTC**

VVV RJC66 DE RAA ZSD ? K

RAA DE RJC66 ZSD 3 K

RJC66 DE RAA ZSD 2 ZN. TRIDEW'ATXTRIZN. :

RAA DE RJC66 ZSL ZN TRIDEW\ATXTRIZN. TRIP'ATXDWAZSL ? k

RJC66 DE RAA ZKM ? K

RAA DE RJC66 ZKM ZGR K

RJC66 DE RAA RPT K

RAA DE RJC66 ZKM ZGR K

**4580.5 kHz, 21-10**

0443 UTC RJD99 de RAS82 QTC 939 17 21 0715 939 = FOR RJD90 RFH74 = 21001 99666 10341 41/98 92407 10060 40120  
57010 70222 89/// 22200 00060 20202 88000 21014 = AR RAS82 K

0447 UTC RJD99 de RAS82 QTC 315 17 21 0718 315 = FOR RJD90 RJH74 = 21031 99666 10341 41/98 92210 10065 40110  
57010 70222 8966 22200 00068 20202 88000 21014 = AR RAS82 K

0451 UTC RJD99 de RBE99 QTC 218 17 21 0736 218 = FOR RJH74 RJD90 = 21031 99650 10359 41/98 92210 10040 40160

57020 70222 89/// 22200 00060 20101 88000 21014 == AR RBE99 K

0459 UTC RMU de RJD99 QTC 765 24 21 0730 765 = SML = PREDUGREVDENIE NR 373 21 OKTÂBRÂ PERIODE 14/20 ÔTOP REJNE 73 OVIDA ...

0506 UTC RJD99 de RAS82 QTC 277 26 21 0802 277 = FOR RJD99 = 78340 60014 ....

0602 UTC RJD99 de RFH40 0900 264 = FOR RJD90 RJH74 = 21061 99666 10344 41497 71910 10060 40110 54010 70222 87666 22200 00030 20502 301// 4///// 5///// 60000 21017 = AR RHF40 K

0607 UTC RJD99 de RAL46 QSA ? QTC 241 14 21 0903 241 = RJH45 RJD90 = 21062 99649 10393 41398 72514 10051 40153 54013 70022 872// 22211 21011 = AR RAL46 K

0610 UTC RJD99 de RAS82 QTC 159 17 21 0902 159 = FOR RJD90 RJH74 = 21061 99666 10341 41598 72110 10060 40100 57010 70222 8763/ 22200 00068 20102 88000 21014 = AR RAS82 K

0613 UTC RJD99 de RJI70 472 22 21 0901 472 = SML FOR RJH45 RJH74 RJD90 = 21061 99650 10360 41/98 62312 10040 40145 57025 70222 8///// 22200 0///// 2///// 3///// 4///// 80000 88000 21017 = AR RJI70 K

0619 UTC RJD99 de RBE99 QSA ? QTC 763 17 21 0901 763 = FOR RJH74 RJD90 = 21061 99650 10359 41498 62211 10040 40150 57010 70122 86320 22200 00060 20101 88000 21014 = AR RBE99 K

1244 UTC RJD99 de RFH40 251 20 21 1520 251 =FOR RJD90 RJH74 = 21021 99666 12344 41498 ..... 0060 40600 54000 70222 87666 22200 00030 20602 302// 4///// 5///// 60000 21017 = AR RHF40 K

1727 UTC VVV RJD99 DE RHF40 QSA? RHF40 QRV RHF40 R 930

1801 UTC VVV RJD99 DE RBE99 QSA? QTC RBE99 768 17 21 2101 768 = FOR RJH74 RJD90 = 21181 99650 10359 22200

1805 UTC VVV RJD99 DE RHF40 QSA? QTC RHF40 511 10 21 2105 511 = FOR RJD90 RJH74 = 21181 99666 10344 22200

1820 UTC VVV RJD99 DE RJI70 QSA? QTC 1821z RJI70 456 22 21 2112 456 =SML FOR RJH45 RJH74 RJD90 = 21181 99650 10369 22200

2002 UTC VVV RJD99 DE RHF40 QSA? RHF40 QRV RHF40 R 542 VVV RJD99 DE RBE99 QSA? QTC

2102 UTC RBE99 459 17 22 0001 459 = FOR RJH74 RD90 = 21211 99650 10359 22200

#### 11155 kHz, 21-10

1717 UTC XXX XXX RLO 15590 ???????? 2110 1672

1750 UTC RIT OK QYT4 QLS

1751 UTC RMRV DE RIT QYT4 QSX 4153

1805 UTC RMM91 DE RIT QSA2 QRV

1944 UTC VVV RJQ84 DE RIT QSA?

#### 6956 kHz, 23-10, 1211 UTC

RGR91 23198 ALXT 83768668 K

RGR91 DE RMW46 CR K

RGR95 23198 ALXT 83768668 K

RGR95 DE RMW46 CR K

RGR96 23198 ALXT 83768668 K

RGR96 DE RMW46 CR K

RGR97 23198 ALXT 83768668 K

RGR97 DE RMW46 CR K

RGR98 23198 ALXT 83768668 K

RGR98 DE RMW46 CR K

RDQ81 23198 ALXT 83768668 K

RDQ81 DE RMW46 CR K

RGR88 23198 ALXT 83768668 K

RGR88 DE RMW46 CR K



*M32b*  
*Russian Naval Aviation*  
*Aviatsiya Voenno-morskogo Flota Rossii*

#### 8816 kHz, 29-10, 0811 UTC

RJF94 RJC38 DE 30506 QTO 0805 QRD XLWF XLMV QBD 4800 QRE 1035 K

QQL ULPE 0910 QBG 5800 K

QTH 6117 3700 QTR 1005 QRE XLWF 1040 K

QQM XLWF 1035 SK

## LOGS SECTION

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
---	4-10	1329		6787	524 527 NW 55 744 ..47 NW 56 770 206 NW 57 handset	CW	(JPL-Sib)
---	27-10	0621	Tue	3586	WX3 WX63 WX63 DE XS66 XS66 XS6# ZRRR RYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYRYR WX3 WX63 WX63 DE XS66 XS66 XS6# UKV ?"?"	FSK 53/300	(F5JBR)
---	28-10	0639	Wed	5632.9	RYRYRY WX63 WX63 WX63 DE XS66 XS66 XS66 QRK 29+?	FSK 53/300	(DK8OK)
ARM	15-10	1415		6450	Armenian Air Defense. Bearing/range reports	USB	(AB)
CHN	11-10	1827		4099	E ?#/3 BHXE BHXE K QSA+ V ZMCLV ZMCL ZMCL DE BHXE BHXE BHXE K QSA+ V SMIT SMIT SMIT DE BHXE BHXE BHXE K QSA+	4+4 QPSK 75/3000 LSB	(DK8OK)
E06	15-10	2030		5186	891 613 20 14259 22676 32782 ... 73311 98089 12250 613 20 00000	USB	(AB)
E06	16-10	0700	Fri	10230	186 ...	USB	(AB)
E06	16-10	2130	Fri	5197	634 728 20 14259 22676 32782 ... 73311 98089 12250 613 20 00000	USB	(AB)
E06	20-10	1730	Tue	14943	826 947 50 31538 23637 23230 ... 15071 34080 83854 947 50 00000	USB	(AB/MPJ)
E06	22-10	1840		10204	634 927 51 98814 58586 48667 ... 80042 29024 75856 927 51 00000	AM	(AB)
E07	1-10	2010	Thu	7516	584 0	AM	(HFD)
E07	1-10	2030	Thu	5836	584 0	AM	(HFD)
E07	3-10	0600	Sat	9064	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	USB	(AB)
E07	3-10	0600	Sat	9064	024 1 452 77 11564	USB	(HFD)
E07	3-10	0620	Sat	10264	024 1	USB	(HFD)
E07	3-10	0620	Sat	10264	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	USB	(AB)
E07	3-10	0630	Sat	11464	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	USB	(AB)
E07	3-10	0640	Sat	11464	024 1	USB	(HFD)
E07	4-10	1700	Sun	13376	317 0	AM	(HFD)
E07	4-10	1700		13376	317 317 317 000	AM	(MPJ)
E07	4-10	1720	Sun	12176	317 0	AM	(HFD)
E07	4-10	1720		12176	317 317 317 000	AM	(MPJ)
E07	5-10	1900	Mon	10243	229 1	AM	(HFD)
E07	5-10	1900	Mon	10243	229 1 854 37 27807 27379 91891 88931 10271 ... 94584 73633 23717 84627 17916 000 000	AM	(MPJ/AB)
E07	5-10	1920	Mon	9243	229 1 854 37 27807 27379 91891 88931 10271 ... 94584 73633 23717 84627 17916 000 000	AM	(AB)
E07	5-10	1920	Mon	9243	229 1	AM	(HFD)
E07	5-10	1940	Mon	7943	229 1 854 37 27807 27379 91891 88931 10271 ... 94584 73633 23717 84627 17916 000 000	AM	(MPJ/AB)
E07	5-10	1940	Mon	7943	229 1 854 37 27807	AM	(HFD)
E07	7-10	0600	Wed	9064	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	USB	(AB)
E07	7-10	0620	Wed	10264	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	USB	(AB)
E07	7-10	0640	Wed	11464	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	USB	(AB)
E07	7-10	1700	Wed	13376	317 317 317 000	AM	(AB)
E07	7-10	1720	Wed	12176	317 317 317 000	AM	(AB)
E07	10-10	0600	Sat	9064	024 024 024 000	USB	(AB)
E07	10-10	0620	Sat	10264	024 024 024 000	USB	(AB)
E07	11-10	1700		13376	317 317 317 000	AM	(AB/MPJ)
E07	11-10	1720		12176	317 317 317 000	AM	(AB/MPJ)
E07	12-10	1900	Mon	10243	229 1 839 45 57324 27232 97039 60988 35680 ... 23377 44905 82545 92540 25882 000 000	AM	(MPJ)
E07	12-10	1900	Mon	9243	229 (rest unreadable)	AM	(AB)
E07	14-10	0600	Wed	9064	024 024 024 024	USB	(AB)
E07	14-10	0620	Wed	10264	024 024 024 024	USB	(AB)
E07	14-10	1700	Wed	13376	317 317 317 000	AM	(AB)
E07	14-10	1720	Wed	12176	317 317 317 000	AM	(AB)
E07	15-10	2010		7516	584 584 584 000	AM	(AB)
E07	15-10	2030		5386	584 584 584 000	AM	(AB)
E07	17-10	0600	Sat	9064	024 024 024 000	USB	(AB)
E07	17-10	0620	Sat	10264	024 024 024 000	USB	(AB)
E07	18-10	1700		13376	317 317 317 000	AM	(AB)
E07	18-10	1720		12176	317 317 317 000	AM	(AB)
E07	19-10	1900	Mon	10243	229 1 671 28 13050 26919 00483 79207 77648 ... 51097 54709 34112 16321 48746 000 000	AM	(MPJ)
E07	19-10	1920	Mon	9243	229 1 671 28 13050 26919 00483 79207 77648 ... 51097 54709 34112 16321 48746 000 000	AM	(MPJ)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrl
E07	19-10	1940	Mon	7943	229 1 671 28 13050 26919 00483 79207 77648 ... 51097 54709 34112 16321 48746 000 000	AM	(MPJ)
E07	21-10	0600	Wed	9064	024 1 126 103 61108 50645 29725 ... 49953 81441 14591 000 000	USB	(AB)
E07	21-10	0620	Wed	10264	024 1 126 103 61108 50645 29725 ... 49953 81441 14591 000 000	USB	(AB)
E07	21-10	0640	Wed	11464	024 1 126 103 61108 50645 29725 ... 49953 81441 14591 000 000	USB	(AB)
E07	21-10	1720	Wed	12176	317 317 317 000	AM	(AB)
E07	21-10	1900	Wed	10243	229 1 671 28 671 28 13050 26919 00483 ... 34112 16321 48746 000 000	AM	(AB)
E07	21-10	1920	Wed	9243	229 1 671 28 671 28 13050 26919 00483 ... 34112 16321 48746 000 000	AM	(AB)
E07	21-10	1940	Wed	7943	229 1 671 28 671 28 13050 26919 00483 ... 34112 16321 48746 000 000	AM	(AB)
E07	22-10	2010		7526	584 584 584 000	AM	(AB)
E07	22-10	2030		5936	584 584 584 000	AM	(AB)
E07	24-10	0600	Sat	9064	024 1 126 103 61108 50645 29725 ... 49953 81441 14591 000 000	USB	(AB)
E07	24-10	0620	Sat	10264	024 1 126 103 61108 50645 29725 ... 49953 81441 14591 000 000	USB	(AB)
E07	24-10	0640	Sat	11464	024 1 126 103 61108 50645 29725 ... 49953 81441 14591 000 000	USB	(AB)
E07	25-10	1700		13376	317 317 317 000	AM	(AB)
E07	25-10	1720		12176	317 317 317 000	AM	(AB)
E07	26-10	1900	Mon	10243	229 229 229 000	AM	(MPJ)
E07	26-10	1920	Mon	9243	229 229 229 000	AM	(MPJ)
E07	28-10	0600	Wed	9064	024 1 126 103 61108 50645 29725 ... 49953 81441 14591 000 000	USB	(AB)
E07	28-10	0620	Wed	10264	024 1 126 103 61108 50645 29725 ... 49953 81441 14591 000 000	USB	(AB)
E07	28-10	0640	Wed	11464	024 1 126 103 61108 50645 29725 ... 49953 81441 14591 000 000	USB	(AB)
E07	28-10	1700	Wed	13376	317 317 317 000	AM	(AB)
E07	28-10	1720	Wed	12176	317 317 317 000	AM	(AB)
E07	28-10	1900	Wed	10243	229 229 229 000	AM	(AB)
E07	28-10	1920	Wed	9243	229 229 229 000	AM	(AB)
E07	29-10	2010		7516	584 584 584 000	AM	(AB/MPJ)
E07	29-10	2030		5836	584 584 584 000	AM	(AB)
E07	31-10	0620	Sat	10264	024 1 126 103 ....	USB	(AB)
E07a	2-10	1510	Fri	11424	411 0	USB	(HFD)
E07a	2-10	1510	Fri	11424	411 411 411 000	USB	(AB/MPJ)
E07a	2-10	1530	Fri	10124	411 0	USB	(HFD)
E07a	2-10	1530	Fri	10124	411 411 411 000	USB	(AB/MPJ)
E07a	3-10	0800	Sat	11484	413 413 413 000	USB	(AB)
E07a	3-10	0800	Sat	11484	413 0	USB	(HFD)
E07a	3-10	0820	Sat	12184	413 413 413 000	USB	(AB)
E07a	3-10	0820	Sat	12184	413 0	USB	(HFD)
E07a	9-10	1510	Fri	11424	411 411 411 000	USB	(AB/MPJ)
E07a	9-10	1530	Fri	10124	411 411 411 000	USB	(AB/MPJ)
E07a	10-10	0800	Sat	11484	413 413 413 000	USB	(AB)
E07a	10-10	0820	Sat	12184	413 413 413 000	USB	(AB)
E07a	14-10	2000	Wed	8144	197 1 14834 8054 31 14908 55751 98840 ... 68945 25370 40093 000 000	USB	(AB/MPJ)
E07a	14-10	2000	Wed	8144	197 1 14834 8054 31 14908	USB	(HFD)
E07a	14-10	2020	Wed	6944	197 1 14834	USB	(HFD)
E07a	14-10	2020	Wed	6944	197 1 14834 8054 31 14908 55751 98840 ... 68945 25370 40093 000 000	USB	(AB)
E07a	14-10	2040	Wed	5744	197 1 14834	USB	(HFD)
E07a	16-10	1510	Fri	11424	411 1 16753 302 97 55394 25477 64649 ... 98662 45931 98382 000 000	USB	(AB)
E07a	16-10	1530	Fri	10124	411 1 16753 302 97 55394 25477 64649 ... 98662 45931 98382 000 000	USB	(AB)
E07a	16-10	1530	Fri	10124	411 1 16753 30297 94..	USB	(AB/MPJ)
E07a	16-10	1550	Fri	8124	411 1 16753 302 97 55394 25477 64649 ... 98662 45931 98382 000 000	USB	(AB)
E07a	17-10	0800	Sat	11484	413 1 16753 302 97 55394 25477 64649 ... 98662 45931 98382 000 000	USB	(AB)
E07a	17-10	0820	Sat	12184	413 1 16753 302 97 55394 25477 64649 ... 98662 45931 98382 000 000	USB	(AB)
E07a	17-10	0840	Sat	13384	413 1 16753 302 97 55394 25477 64649 ... 98662 45931 98382 000 000	USB	(AB)
E07a	21-10	2000	Wed	8144	197 1 19389 5649 65 06592 85671 64437 ... 91700 49806 17521 000 000	USB	(AB)
E07a	21-10	2020	Wed	6944	197 1 19389 5649 65 06592 85671 64437 ... 91700 49806 17521 000 000	USB	(AB)
E07a	21-10	2040	Wed	5744	197 1 19389 5649 65 06592 85671 64437 ... 91700 49806 17521 000 000	USB	(AB)
E07a	22-10	0430	Thu	6788	741 1 19389 5649 65 06592	USB	(HFD)
E07a	22-10	0430		6788	741 1 19389 5649 65 06592 85671 64437 ... 91700 49806 17521 000 000	USB	(AB)
E07a	22-10	0450	Thu	7488	741 1 19389	USB	(HFD)
E07a	22-10	0450		7488	741 1 19389 5649 65 06592 85671 64437 ... 91700 49806 17521 000 000	USB	(AB)
E07a	22-10	0510	Thu	8188	741 1 19389	USB	(HFD)
E07a	22-10	0510		8188	741 1 19389 5649 65 06592 85671 64437 ... 91700 49806 17521 000 000	USB	(AB)
E07a	23-10	1510	Fri	11424	411 411 411 000	USB	(AB)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
E07a	23-10	1530	Fri	10124	411 411 411 000	USB	(AB)
E07a	24-10	0800	Sat	11484	413 413 413 000	USB	(AB)
E07a	24-10	0820	Sat	12184	413 413 413 000	USB	(AB)
E07a	28-10	2000	Wed	8144	197 197 197 000	USB	(AB/MPJ)
E07a	28-10	2020	Wed	6944	197 197 197 000	USB	(AN/MPJ)
E07a	29-10	0430		6788	741 741 741 000	USB	(AB)
E07a	29-10	0450		7488	741 741 741 000	USB	(AB)
E07a	30-10	1510	Fri	11424	411 411 411 000	USB	(AB)
E07a	30-10	1530	Fri	10124	411 411 411 000	USB	(AB/MPJ)
E07a	31-10	0800	Sat	11484	413 413 413 000	USB	(AB)
E07a	31-10	0820	Sat	12184	413 413 413 000	USB	(AB)
E11	1-10	0820		9960	438/00	USB	(AB)
E11	1-10	0930		8803	270/00	USB	(AB)
E11	1-10	1925		10620	551/00	USB	(MPJ)
E11	2-10	0545	Fri	15915	348/00	USB	(AB)
E11	2-10	0710	Fri	10221	633/00	USB	(AB)
E11	2-10	0730	Fri	15825	352/00	USB	(AB)
E11	2-10	0830	Fri	10690	649/00	USB	(AB)
E11	4-10	1625		10448	972/00	USB	(MPJ)
E11	5-10	0745	Mon	10213	262/00	USB	(AB)
E11	5-10	0830	Mon	10690	649/00	USB	(AB)
E11	6-10	0645	Tue	10800	517/00	USB	(AB)
E11	6-10	0710	Tue	10221	633/00	USB	(AB)
E11	6-10	0745	Tue	14575	335/00	USB	(AB)
E11	6-10	1045	Tue	8102	576/00	USB	(AB/MPJ)
E11	6-10	1810	Tue	13455	980/10 Attention 4_717 20498 15829 055__ 7738_ 44329 ... 32124 20498 158..	USB	(MPJ)
E11	6-10	1925	Tue	10620	556/38 Attention 97531 19479 35975 22110 09644 ... 55571 35199 41410 18145 79247	USB	(MPJ)
E11	7-10	0930	Wed	8803	270/00	USB	(AB)
E11	7-10	1625	Wed	10448	972/00	USB	(AB)
E11	7-10	1705	Wed	10213	392/00	USB	(MPJ)
E11	8-10	0645		10800	517/00	USB	(AB)
E11	8-10	0745		14575	335/00	USB	(AB)
E11	8-10	0930		8803	270/00	USB	(AB)
E11	8-10	1530		10330	262/00	USB	(MPJ)
E11	9-10	0710	Fri	10221	633/00	USB	(AB)
E11	9-10	0730	Fri	15825	355/00	USB	(AB)
E11	10-10	1705	Sat	10213	392/00	USB	(AB)
E11	11-10	0805		11450	311/00	USB	(AB)
E11	11-10	1540		15915	227/33 Attention 61356 33547 75925 32532 25524 ... 22258 60083 97776 01753 79028	USB	(MPJ)
E11	11-10	1625		10448	972/00	USB	(AB)
E11	11-10	2005		8186	363/00	USB	(AB)
E11	12-10	0745	Mon	10213	262/00	USB	(AB)
E11	12-10	0820	Mon	9960	438/00	USB	(AB)
E11	12-10	0900	Mon	9399	534/00	USB	(AB)
E11	12-10	1540	Mon	15915	228/00	USB	(GHn)
E11	13-10	0645	Tue	10800	517/00	USB	(AB)
E11	13-10	0710	Tue	10221	633/00	USB	(AB)
E11	13-10	0910	Tue	10221	633/00	USB	(AB)
E11	13-10	1300	Tue	15632	133/00	USB	(AB)
E11	14-10	0900	Wed	9399	534/00	USB	(AB/MPJ)
E11	14-10	0930	Wed	8803	270/00	USB	(AB)
E11	14-10	1205	Wed	9443	465/30 45724	USB	(HFD)
E11	14-10	1300	Wed	15632	133/00	USB	(MPJ)
E11	14-10	1625	Wed	10448	972/00	USB	(AB)
E11	14-10	1710	Wed	10213	392/00	USB	(AB)
E11	15-10	0645		10800	517/00	USB	(AB)
E11	15-10	0730		14769	491/00	USB	(AB)
E11	15-10	0820		9960	438/00	USB	(AB)
E11	15-10	0930		8803	270/00	USB	(AB)
E11	15-10	1925		10620	551/00	USB	(MPJ)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrlb
E11	16-10	0645	Sat	10800	517/00	USB	(HFD)
E11	16-10	0710	Fri	10221	633/00	USB	(AB)
E11	16-10	0730	Fri	15825	352/00	USB	(AB)
E11	16-10	2000	Fri	7377	574/31 Attention 48271 81798 59184 68061 28033 ... 67983 99870 08648 50624 50204	USB	(MPJ)
E11	17-10	0710	Sat	14769	491/00	USB	(AB)
E11	17-10	1705	Sat	10213	392/00	USB	(MPJ)
E11	18-10	0730	Sun	15825	352/00	USB	(HFD)
E11	18-10	0730		15825	352/00	USB	(AB)
E11	18-10	1625		10448	972/00	USB	(AB)
E11	18-10	1740		15915	228/00	USB	(AB)
E11	19-10	0450	Mon	6304	416/00	USB	(AB)
E11	19-10	0820	Mon	9960	438/00	USB	(AB)
E11	19-10	0830	Mon	10690	649/00	USB	(AB)
E11	19-10	0900	Mon	9399	534/00	USB	(AB)
E11	19-10	1540	Mon	15915	228/00	USB	(GHn/MPJ)
E11	20-10	0710	Tue	10221	633/00	USB	(AB)
E11	20-10	0730	Tue	15825	352/00	USB	(AB)
E11	20-10	1045	Tue	8102	567/00	USB	(AB)
E11	20-10	1400	Tue	13375	982/10 Attention 90508 69307 06602 23829 48860 67258 34519 43508 13988 06749 Atttrntion, rpt msg, out	USB	(AB/GHn)
E11	20-10	1925	Tue	10620	551/00	USB	(MPJ)
E11	21-10	0315	Wed	7850	253/00	USB	(AB)
E11	21-10	0545	Wed	15915	348/00	USB	(AB)
E11	21-10	0900	Wed	9399	534/00	USB	(AB)
E11	21-10	0930	Wed	8803	270/00	USB	(AB)
E11	21-10	1705	Wed	10213	392/00	USB	(AB)
E11	22-10	0710	Thu	14769	491/00	USB	(HFD)
E11	22-10	0745		14575	335/00	USB	(AB)
E11	22-10	0930		8803	270/00	USB	(AB)
E11	23-10	0545	Fri	15915	348/00	USB	(AB)
E11	23-10	0710	Fri	10221	633/00	USB	(AB)
E11	23-10	0830	Fri	10690	649/00	USB	(AB)
E11	24-10	0710	Sat	14769	491/00	USB	(AB)
E11	24-10	1705	Sat	10213	392/00	USB	(AB/GHn)
E11	25-10	0805		11450	311/00	USB	(AB)
E11	25-10	1540		15914	228/00	USB	(AB)
E11	25-10	2005		8186	363/00	USB	(GHn/MPJ)
E11	26-10	0450	Mon	6304	416/00	USB	(AB)
E11	26-10	0745	Mon	10213	262/00	USB	(AB)
E11	26-10	0820	Mon	9960	438/00	USB	(AB)
E11	26-10	0900	Mon	9399	534/00	USB	(AB)
E11	26-10	1540	Mon	15915	228/00	USB	(AB/GHn)
E11	27-10	0745	Tue	10800	517/00	USB	(AB)
E11	27-10	0745	Tue	14575	335/00	USB	(AB)
E11	27-10	1045	Tue	8102	576/00	USB	(AB)
E11	27-10	1300	Tue	15632	133/00	USB	(MPJ)
E11	27-10	1925	Tue	10620	551/00	USB	(MPJ)
E11	28-10	0900	Wed	9399	534/00	USB	(AB)
E11	28-10	1625	Wed	10448	972/00	USB	(AB)
E11	29-10	0645		10800	517/00	USB	(AB)
E11	29-10	0720		14769	491/00	USB	(AB)
E11	29-10	0745		14575	335/00	USB	(AB)
E11	29-10	0820		9960	438/00	USB	(AB)
E11	29-10	1730		9371	416/00	USB	(AB)
E11	30-10	2000	Fri	7377	576/00	USB	(GHn/MPJ)
E11	31-10	0710	Sat	14769	491/00	USB	(AB)
E11	31-10	1345	Sat	13046	911/00	USB	(MPJ)
E11a	3-10	0530	Sat	10213	981/10 Attention 99744 42526 10624 42771 94240 84219 55568 48158 06720 41231 Attention, rpt msg, out	USB	(AB)
E11a	3-10	1400	Sat	13375	982/10 Attention 57623 29230 01267 63607 18717 76753 88176 91304 68522 56411 Attention, rpt msg, out	USB	(AB)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrlb
E11a	3-10	1810	Sat	13455	982/10 Attention 48518 23553 90330 41536 64325 65280 82049 01093 13013 05356 Attention, rpt msg, out	USB	(AB)
E11a	5-10	0820	Mon	9960	435/32 Attention 73438 63234 41478 ... 51765 11344 Attention, rpt msg, out	USB	(AB)
E11a	5-10	0900	Mon	9399	533/30 Attention 54595 03908 32431 ... 05504 03623 57443 Attention, rpt msg, out	USB	(AB)
E11a	6-10	1300	Tue	15632	134/36 Attention ... unreadable	USB	(AB)
E11a	6-10	1400	Tue	13375	982/10 Attention 51730 28867 60581 78017 73489 92200 51310 44494 21677 81754 Attention, rpt msg, out	USB	(AB)
E11a	7-10	0900	Wed	9399	533/30 Attention 54595 03908 32431 ... 05504 03623 57443 Attention, rpt msg, out	USB	(AB)
E11a	8-10	0820		9960	435/32 Attention 73438 63234 41478 ...81236 51765 11344 Attention, rpt msg, out	USB	(AB)
E11a	10-10	1810	Sat	13455	984/10 Attention 63098 17105 74097 78959 49500 07381 28404 25201 97311 71458 Attention, rpt msg, out	USB	(AB)
E11a	11-10	0730		15825	355/30 Attention 28961 01627 68881 ... 68626 27854 36984 Attention, rpt msg, out	USB	(AB)
E11a	13-10	0745	Tue	14575	334/36 Attention 31158 73507 69339 18899 86176 23155 72602 95501 15780 40990 18632 41285 91416 ... Attention, rpt msg, out	USB	(AB)
E11a	13-10	1400	Tue	13375	982/10 Attention 92382 73535 70307 70013 56261 65943 25975 99785 08788 39049 Attention, rpt msg, out	USB	(AB)
E11a	13-10	1810	Tue	13455	981?/10 Attention ...	USB	(MPJ)
E11a	15-10	0745		14575	334/?? unreadable	USB	(AB)
E11a	17-10	1810	Sat	13455	980/10 Attention 84281 98063 71133 80696 21647 96194 50870 98633 33655 48650 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	19-10	0745	Mon	10213	264/37 Attention 88983 26150 14916 ... 67546 53623 21419 Attention, rpt msg, out	USB	(AB)
E11a	20-10	0530	Tue	10213	981/10 Attention 68776 29933 14311 68968 44894 36131 33756 86751 74940 63505 Attention, rpt msg, out	USB	(AB)
E11a	20-10	0645	Tue	10800	512/32 Attention 97804 42162 16087 ... 74341 86098 52428 Attention, rpt msg, out	USB	(AB)
E11a	20-10	1810	Tue	13455	983/10 Attention 88251 71906 07380 97771 42963 56224 69372 18059 69086 70941 Attention, rpt msg, out	USB	(GHn)
E11a	21-10	1625	Wed	10448	976/37 Attention 34479 92891 33942 ... 42400 15182 03446 Attention, rpt msg, out	USB	(AB/GHn)
E11a	22-10	0645		10800	512/32 Attention 97804 42162 16087 ... 74341 86098 52428 Attention, rpt msg, out	USB	(AB)
E11a	25-10	1625		10448	976/37 Attention 34479 92891 33942 ... 42400 15182 03446 Attention, rpt msg, out	USB	(AB)
E11a	26-10	0830	Mon	10690	640/31 Attention 58659 67920 12099 ... 03026 62883 26303 Attention, rpt msg, out	USB	(AB)
E11a	27-10	0710	Tue	10221	633/32 Attention 37661 89487 06154 ... 92393 29006 52285 Attention, rpt msg, out	USB	(AB)
E11a	27-10	1810	Tue	13455	983/10 Attention 36242 50117 16405 23088 80200 33083 92207 14715 16772 53008 Attention, rpt msg out	USB	(AB)
E11a	28-10	1705	Wed	10213	399/35 Attention 66558 21064 60371 ... 62509 96238 75047 Attention, rpt msg, out	USB	(Danix)
E11a	29-10	0930		8803	277/33 Attention 08790 80055 22805 ... 68130 16121 58781 Attention, rpt msg, out	USB	(AB)
E11a	30-10	0710	Fri	10221	633/32 Attention 37661 89487 06154 ... 92393 29006 52285 Attention, rpt msg, out	USB	(AB)
E11a	30-10	0830	Fri	10690	640/31 Attention 58659 67920 12099 ... 03026 62883 26303 Attention, rpt msg, out	USB	(AB)
E11a	31-10	1400	Sat	13375	982/10 Attention 94833 63445 81156 10575 54439 73692 24853 88569 30631 37179 Attention, rpt msg, out	USB	(AB/MPJ/Da nix)
E11a	31-10	1705	Sat	10213	399/35 Attention 66558 21064 60371 ... 62509 96238 75047 Attention, rpt msg, out	USB	(AB/Danix/ MPJ)
E11a	31-10	1810	Sat	13455	980/10 Attention 11632 81195 24755 91765 98540 83523 62165 40147 88475 88579 Attention, rpt msg, out	USB	(AB)
E17z	1-10	0800		14260	674 293 5 44435 32469 37983 32984 33129 293 5 00000	USB	(AB)
E17z	1-10	0810		12930	674 293 5 44435 32469 37983 32984 33129 293 5 00000	USB	(AB)
E17z	8-10	0800		12930	674 ? barely audible	USB	(AB)
E17z	8-10	0800		14260	674 ? barely audible	USB	(AB)
E17z	15-10	0800		12930	674 253 8 52401 63919 92799 14600 74248 48754 65125 41879 253 8 00000	USB	(AB)
E17z	15-10	0800		14260	674 253 8 52401 63919 92799 14600 74248 48754 65125 41879 253 8 00000	USB	(AB)
E17z	22-10	0800		14260	674 253 8 52401 63919 92699 14600 74248 48754 65125 41879 253 8 00000	USB	(AB)
E17z	22-10	0810		12930	674 253 8 52401 63919 92699 14600 74248 48754 65125 41879 253 8 00000	USB	(AB)

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E17z	29-10	0800		14260	674 674 674 00000	USB	(AB)
E17z	29-10	0810		12930	674 674 674 00000	USB	(AB)
EGY	25-9	0505	Fri	19898.7	MFA Cairo	SITOR-A 100/170	(EW)
EGY	19-10	1340	Mon	17415	MFA Cairo broadcast in SITOR-A and SITOR-B	SITOR-A 100/170	(CvR)
EGY	23-10	1624	Fri	20036.7	Egyptian Embassy, Kinshasa (wgzpkp) msg to MFA Cairo	SITOR-A 100/170	(MCO)
EGY	27-10	2200	Tue	8067.7	Egyptian diplo encrypted traffic	SITOR-A 100/170	(AB)
EGY	27-10	2245	Tue	10066	99910 Egyptian MFA, Cairo calling 55501, embassy Havana	80bd Codan Chirp	(MCO)
EGY	27-10	2245	Tue	10067.7	MFA Cairo clg IPTX, embassy Havana	SITOR-A 100/170	(MCO)
G06	5-10	0800	Mon	6810	329 329 329 00000	USB	(AB)
G06	5-10	1700	Mon	4632	Test at 1653 UTC but no transmission at 1700 UTC. Carrier up till 1710 UTC	USB	(AB)
G06	5-10	1802	Mon	5380	248 248 248 00000 (2 mins late)	USB	(AB)
G06	7-10	1200	Wed	5915	248 0	USB	(HFD)
G06	7-10	1200	Wed	5915	248 248 248 00000	USB	(AB)
G06	7-10	1300	Wed	5458	248 0	USB	(HFD)
G06	7-10	1300	Wed	5458	248 248 248 00000	USB	(AB)
G06	8-10	1830	Thu	5934	579 317 20 37839	USB	(HFD)
G06	9-10	1930	Fri	5442	947 394 20 06132 75515 79681 94217 21443 ... 18809 85052 49870 63962 04884 394 20 00000	USB	(MPJ)
G06	12-10	1700	Mon	4632	248 248 248 00000	USB	(MPJ)
G06	14-10	1300	Wed	5458	248 248 248 00000	USB	(MPJ)
G06	19-10	0800	Mon	6810	329 329 329 00000	USB	(AB)
G06	22-10	1830	Thu	5934	579 317 20 37839	USB	(HFD)
G06	23-10	1930	Fri	5442	947 394 20 06132	USB	(HFD)
HM01	1-10	1559		11435	35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM01	2-10	0500	Fri	5855	35652 72261 85864 56242 12375 33118	AM/RDFT	(AB)
HM01	2-10	1834	Fri	11635	35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM01	2-10	2059	Fri	11635	35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM01	2-10	2204	Fri	10715	35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM01	3-10	1553	Sat	11435	35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM01	3-10	1711	Sat	11530	35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM01	4-10	1550		11435	35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM01	5-10	1558	Mon	11435	35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM01	5-10	2230	Mon	10715	74023 51401 63445 82453 27665 87100	AM/RDFT	(Dan)
HM01	6-10	1558	Tue	11435	74023 51401 63445 82453 27665 87100 stops, then 74024 51402 63446 82454 27666 87101 at 1601z	AM/RDFT	(DSch)
HM01	6-10	2200	Tue	17480	74024 51402 63446 82454 27666 87101	AM/RDFT	(Dan)
HM01	6-10	2259	Tue	8135	WNGGA DWADN UGWRA into tfc	AM/RDFT	(DSch)
HM01	7-10	1759	Wed	11635	74025 51403 63447 82455 27667 87102	AM/RDFT	(DSch)
HM01	8-10	1555		11435	74025 51403 63447 82455 27667 87102	AM/RDFT	(DSch)
HM01	8-10	1758		11635	74026 51404 83051 82456 01561 87103	AM/RDFT	(DSch)
HM01	8-10	2230		17480	74026 51404 83051 82456 01561 87103	AM/RDFT	(Dan)
HM01	9-10	1557	Fri	11435	74026 51404 83051 82456 01561 87103, Changed at 1613z to 74027 51405 83051 82457 01561 87104	AM/RDFT	(DSch)
HM01	9-10	2200	Fri	10715	74027 51405 83051 82457 01561 87104	AM/RDFT	(Dan)
HM01	10-10	1547	Sat	11435	Tuning txm 87104 74027 514 stops. Trying restart. 101553 83051 82457 01561 stops. At 1558z: 74028 51406 83052 82458 01562 87105	AM/RDFT	(DSch)
HM01	10-10	2301	Sat	8009	Mixing with M08a	AM/RDFT	(DSch)
HM01	11-10	1451		11435	74082 51406 83052 82458 01562 87105, then at 1559 UTC: 74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	11-10	2301		8135	Very weak HM01 instead of M08a	AM/RDFT	(DSch)
HM01	12-10	1558	Mon	11435	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	12-10	2200	Mon	10715	74029 51407 83053 82459 01563 87106	AM/RDFT	(Dan)
HM01	13-10	0757	Tue	11635	74029 51407 83053 82459 01563 87106 (mixing with S06s)	AM/RDFT	(AB)
HM01	13-10	1602	Tue	11435	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	13-10	1700	Tue	11530	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	13-10	2230	Tue	17480	74029 51407 83053 82459 01563 87106	AM/RDFT	(Dan)
HM01	13-10	2236	Tue	17480	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	14-10	0657	Wed	9330	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	14-10	0757	Wed	9065	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	14-10	0857	Wed	9240	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	14-10	0957	Wed	9155	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	14-10	1716	Wed	11530	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	14-10	1813	Wed	11635	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)



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HM01	14-10	2055	Wed	11635	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	14-10	2200	Wed	10715	74029 51407 83053 82459 01563 87106	AM/RDFT	(Dan)
HM01	14-10	2231	Wed	10715	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	15-10	1734		11530	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	15-10	1832		11635	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	15-10	2200		17480	74029 51407 83053 82459 01563 87106	AM/RDFT	(Dan)
HM01	16-10	0657	Fri	9330	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	16-10	1559	Fri	11435	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	16-10	1739	Fri	11530	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	16-10	2054	Fri	11635	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	16-10	2157	Fri	10715	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	16-10	2200	Fri	10715	14745 48832 83058 55024 36881 67781	AM/RDFT	(Dan)
HM01	17-10	1559	Sat	11435	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	17-10	1704	Sat	11530	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	17-10	1759	Sat	11635	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	17-10	2056	Sat	16180	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	17-10	2158	Sat	17480	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	18-10	0457		5855	74029 51407 83053 82459 01563 87106 stopped at 0503z during a RDFT message and into 74029 51407 83053 etc again	AM/RDFT	(AB)
HM01	18-10	0557		10345	Voice calls: 74029 51407 83053 82459 01563 87106. Files sent in RDFT: 36467402.F1G 50405140.F1C 01278305.TXT 30568245.TXT 36060156.TXT 21528710.TXT	AM/RDFT	(AB)
HM01	18-10	0657		9330	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	18-10	0757		9065	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	18-10	0957		9155	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	18-10	1559		11435	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	18-10	1832		11635	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	18-10	2100		11635	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	18-10	2211		10715	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	19-10	0500	Mon	5855	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	19-10	1601	Mon	11435	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	19-10	1828	Mon	11635	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	19-10	2158	Mon	10715	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	19-10	2200	Mon	10715	74029 51407 83053 82459 01563 87106	AM/RDFT	(Dan)
HM01	20-10	0500	Tue	11635	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	20-10	0757	Tue	11462	74029 51407 83053 82459 01563 87106. Mixing with S06s at 0800z	AM/RDFT	(AB)
HM01	20-10	1612	Tue	11435	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	20-10	1832	Tue	11635	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	20-10	2152	Tue	17480	74029 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	21-10	0557	Wed	10345	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	21-10	0757	Wed	9065	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	21-10	0857	Wed	9240	74029 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	21-10	1601	Wed	11435	14740 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	21-10	2159	Wed	10715	14740 51407 83053 82459 01563 87106	AM/RDFT	(DSch)
HM01	21-10	2253	Wed	8009	14740 51407 83053 82459 01563 87106. Should be M08a	AM/RDFT	(DSch)
HM01	22-10	0532		11462	14740 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	22-10	0600		14375	14740 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	22-10	0658		13435	14740 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	22-10	0759		11635	14740 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	22-10	0859		11462	14740 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	22-10	1559		11435	14741 51408 83054 55021 01564 87107	AM/RDFT	(DSch)
HM01	22-10	2230		17480	14471 51408 83054 55021 01564 87107	AM/RDFT	(Dan)
HM01	22-10	2245		8135	HM01 instead of M08a. Another xmtr being tuned on top of HM01 signal at 2247z. HM01 sig off at 2248z. On again, sending yesterday's 1600z sked groups. At 2307z M08a but HM01 signal continues.	AM/RDFT	(DSch)
HM01	22-10	9859		12180	14740 51407 83053 82459 01563 87106	AM/RDFT	(AB)
HM01	23-10	1549	Fri	11435	Sending yesterdays groups. Stops at 1559z into new groups: 14742 51409 83055 55021 01565 87108	AM/RDFT	(DSch)
HM01	24-10	1559	Sat	11435	14743 48831 83056 55022 01566 87109	AM/RDFT	(DSch)
HM01	24-10	2311	Sat	8009	Sending 20 Oct HM01 groups. Should be M08a	AM/RDFT	(DSch)
HM01	25-10	1612		11435	14744 48831 83057 55023 01567 67781	AM/RDFT	(DSch)
HM01	26-10	1559	Mon	11435	14745 48832 83058 55024 36881 67781	AM/RDFT	(DSch)
HM01	26-10	2230	Mon	10715	14745 48832 83058 55024 36881 67781	AM/RDFT	(DSch)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
HM01	27-10	0759	Tue	11635	14745 48832 83058 55024 36881 67781 mixing with S06s	AM/RDFT	(AB)
HM01	27-10	0859	Tue	11462	14745 48832 83058 55024 36881 67781	AM/RDFT	(AB)
HM01	27-10	1703	Tue	11435	14746 48833 83059 55025 36881 67782	AM/RDFT	(DSch)
HM01	28-10	2155	Wed	10715	14747 48834 53871 55026 36882 67783	AM/RDFT	(DSch)
HM01	29-10	1550		11435	Tuned transmitter; no callup, no tuning tones, starts at 3rd callup group. 14748 48835 53871 55027 36883 67784	AM/RDFT	(DSch)
HM01	29-10	1659		11530	14748 48835 53871 55027 36883 67784	AM/RDFT	(DSch)
HM01	29-10	2057		16180	14748 48835 53871 55027 36883 67784	AM/RDFT	(DSch)
HM01	29-10	2200		17480	14748 48835 53871 55027 36883 67784) QSA3 DanAR Thu	AM/RDFT	(Dan)
HM01	30-10	1559	Fri	11435	14749 48836 53872 55028 36884 67785	AM/RDFT	(DSch)
HM01	30-10	1701	Fri	11530	14749 48836 53872 55028 36884 67785	AM/RDFT	(DSch)
HM01	30-10	2100	Fri	11635	14749 48836 53872 55028 36884 67785	AM/RDFT	(DSch)
HM01	30-10	2159	Fri	10715	14749 48836 53872 55028 36884 67785	AM/RDFT	(DSch)
HM01	30-10	2200	Fri	10715	14749 48836 53872 55028 36884 67785) QSA5 DanAR Fri	AM/RDFT	(Dan)
HM01	31-10	1553	Sat	11435	Sends yesterdays groups. AT 1559z new groups: 32431 48837 53873 55029 36885 67786	AM/RDFT	(DSch)
HM01	31-10	2105	Sat	16180	32431 48837 53873 55029 36885 67786	AM/RDFT	(DSch)
HM01	31-10	2200	Sat	17480	32431 48837 53873 55029 36885 67786) QSA2 DanAR Sat	AM/RDFT	(Dan)
HM02	1-10	0452		7351	FSK at 0452z, CW at 0454z: 999 249 34 = 37589 24952 51497 ... 93271 45432 03197 = 249 34 249 34 = rpt msg = 249 34 000	FSK + CW	(AB)
HM02	3-10	0508	Sat	7351	FSK folowed by CW: 999 861 32 = 27702 72372 82433 ... 20062 46373 49191 = 861 32 861 32 = rpt msg = 861 32 000	FSK + CW	(AB)
HM02	7-10	0503	Wed	7351	Carrier up at 0459z, FSK at 0503z, carrier off 0505z. No morse transmission	FSK	(AB)
M01	1-10	1800		5475	463 303 30 == = 99135 06099 06099 06099 (!) 02100 36578 56255 ... 92527 36797 16595 65141 16219 == = 303 30 000	CW	(MPJ)
M01	1-10	1832		4605	201 707 30 == = 03016 27233 96271 04550 14111 ... 53813 58294 69690 95717 97222 == = 707 30 000 //3510 kHz	MCW	(MPJ)
M01	1-10	1832		3510	201 707 30 == = 03016 27233 96271 04550 14111 ... 53813 58294 69690 95717 97222 == = 707 30 000 //4605 kHz	MCW	(MPJ)
M01	3-10	1500	Sat	6260	463 158 30 55191	CW	(HFD)
M01	6-10	1759	Tue	5475	463 56673 75643 67186 87982 71991 ... _7635 52306 28775 38187 02691 = = 451 30 0x0x0x (x=6 dots). A total mess	CW	(MPJ)
M01	6-10	2000	Tue	5020	463 164 30 == = 20690 66007 56724 31477 42015 (42915) ... 52306 97635 28777 86205 17385 == = 3 64 364 (as sent) 30 30 0x0x0x (x=5 dots)	CW	(MPJ)
M01	8-10	1800		5475	463 621 30 == = 50110 31334 77232 97464 08817 ... 49778 18882 97277 59522 75870 == = 621 30 000	CW	(MPJ)
M01	9-10	1903	Fri	3625	153 531 33 == = 96379 81285 49102 94603 09165 ... 28363 04001 78988 42757 60228 == = 531 33 000	MCW	(MPJ)
M01	13-10	2000	Tue	5020	463 258 30 == = 22405 94555 494554 (!) 90725 ... 41067 42447 ...	CW	(MPJ)
M01	15-10	1800		5475	463 507 30 == = 31581 05316 01697 00683 54628 ... 82090 38329 59702 83031 06657 == = 507 30 000	CW	(MPJ)
M01	15-10	2000		5020	463 903 30 == = 88672 12264 39112 ... 35075 38256 17833 == = 903 30 000	CW	(AnEUR)
M01	18-10	0700		6510	463 (R) 937 937 30 30 == = 33989 33989 79838 79838 25386 25386 ... 92382 92382 58509 58509 54743 54743 = = 937 937 30 30 00000	CW	(AB)
M01	20-10	2000	Tue	5020	463 947 30 == = 01150 43586 95882 01271 14057 ... 52306 97635 28774 38187 02691 == = 947 30 000	CW	(MPJ)
M01	27-10	1800	Tue	5475	463 617 30 = 37658 29016 53870 ... 98981 25187 43242 = 617 30 000	CW	(AB)
M01	27-10	2000	Tue	5020	463 421 30 == = 51635 14249 52480 (52489) 44363 21478 ... 11873 07000 67437 23760 20209 == = 421 30 000	CW	(MPJ)
M01	29-10	1800		5475	463 211 211 30 30 = = 84417 24889 02698 ... 71975 48114 97967 = = 211 211 30 30 000 (VVV at 1748z)	CW	(AB/MPJ)
M01	29-10	2000		5020	463 310 30 == = 44900 21663 13905 50036 09949 ... 41783 68076 35433 97290 26178 == = 310 30 000	CW	(MPJ)
M01	31-10	1500	Sat	6260	463 332 30 == = 47160 64033 68025 00809 07654 ... 50391 23019 (34019) 21905 96563 35570 == = 332 30 000	CW	(MPJ)
M01b	5-10	1915	Mon	3645	771 531 33 == = 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == = 531 33 000 //4455 kHz	MCW	(MPJ)
M01b	5-10	1915	Mon	4455	771 531 33 == = 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == = 531 33 000 //3645 kHz	MCW	(MPJ)
M01b	8-10	1832		4605	201 531 33 == = 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == = 531 33 000 //3510 kHz	CW	(MPJ)
M01b	8-10	1832		3510	201 531 33 == = 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == = 531 33 000 //4605 kHz	CW	(MPJ)
M01b	12-10	1810	Mon	3535	420 531 33 == = 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == = 531 33 000 //4590 kHz	MCW	(MPJ)

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M01b	12-10	1810	Mon	4590	420 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == 531 33 000 //3535 kHz	MCW	(MPJ)
M01b	12-10	1915	Mon	4455	771 531 33 == 96379 81285 49102 94603 09165 ...	MCW	(MPJ)
M01b	15-10	0530		9129	498 498 498 535 20 535 20 (R) 498 498 498 525 43 525 43 (R). No message sent	CW	(CA2)
M01b	15-10	0800		6811	723 723 723 621 81 621 81 (R). No message sent	CW	(CA2)
M01b	15-10	1832		4605	201 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == 531 33 000	MCW	(MPJ)
M01b	15-10	1942		3715	Callup missed 531 33 == 96379 81285 49102 ...	MCW	(MPJ)
M01b	16-10	1902	Fri	3625	153 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == 531 33 000	MCW	(MPJ)
M01b	19-10	1810	Mon	3535	420 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60288 == 531 33 000 //4590 kHz	MCW	(MPJ)
M01b	19-10	1810	Mon	4590	420 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60288 == 531 33 000 //3535 kHz	MCW	(MPJ)
M01b	19-10	1915	Mon	4455	771 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60288 == 531 33 000 //3645 kHz	MCW	(MPJ)
M01b	19-10	1915	Mon	3645	771 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60288 == 531 33 000 //4455 kHz	MCW	(MPJ)
M01b	22-10	1835		4605	201 201 201 531 531 33 33 == 96379 81285 ... 41757 60228 == 531 531 33 33 000	CW	(CA2)
M01b	26-10	1910	Mon	4590	420 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 71757 60228 == 531 33 000 //3535 kHz	MCW	(MPJ)
M01b	26-10	1910	Mon	3535	420 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 71757 60228 == 531 33 000 //4590 kHz	MCW	(MPJ)
M01b	29-10	2042		3715	477 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == 531 33 000 //4570 kHz	MCW	(MPJ)
M01b	29-10	2042		4570	477 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == 531 33 000 //3715 kHz	MCW	(MPJ)
M01b	30-10	2002	Fri	4940	153 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == 531 33 000 //3625 kHz	MCW	(AB)
M01b	30-10	2002	Fri	3265	153 531 33 == 96379 81285 49102 94603 09165 ... 28363 04001 78988 41757 60228 == 531 33 000 //4940 kHz	MCW	(AB)
M01b	30-10	2110	Fri	4585	582 (R) 531 33 == 96379 81285 49102 94603 ...	MCW	(AB)
M01c	5-10	1208	Mon	5041	111 333 111 999 574 10 = 13200 37209 76199 01920 89425 91381 19121 43319 44007 69424 = 574 10 111 000	CW	(CA2)
M01c	6-10	1425	Tue	4479	745 745 745 2916 2916 2916 745 745 745 111 111 = 103 10 = 5..25 96543 24967 34480 45580 43842 13468 64889 57213 63783 = 103 10 000	CW	(CA2)
M01c	9-10	0743	Fri	4130	981 981 981 981 981 938 86 938 86 and 981 981 981 931 28 931 28 111 and 333 94767 94767 333 94767 96767 ...	CW	(CA2)
M01c	9-10	0753	Fri	4130	981 981 981 981 981 938 86 938 86 and 981 981 981 931 28 931 28 111 and	CW	(CA2)
M01c	9-10	0848	Fri	4347	823 823 823 823 138 69 138 69 13103 111 and 333 13103 13103 333 13103 13103	CW	(CA2)
M01c	9-10	0848	Fri	4347	823 823 823 823 138 69 138 69 13103 111 and 333 13103 13103 333 13103 13103	CW	(CA2)
M01c	21-10	1200	Wed	4313	873 873 873 882 44 882 44	CW	(CA2)
M01c	21-10	1208	Wed	3812	i.p. 57396 72096 12307 98956 91738 60667 71250 ... 33836 53275 21075 = 146 76 000 333 111 32593 000	CW	(CA2)
M01c	26-10	0724	Mon	4036	618 39 919 39. 618 911 33. 333 03. 111 999. 111 10 = 80399 45644 16610 21773 51259 73128 18193 14371 05406 89085 = 111 10 111 = 80399 111 000	CW	(CA2)
M01c	26-10	0758	Mon	4164	386 386 386 239 17 239 17 and 333 00 and 30409 and 303 05 and 111 000 26 oct. 15 (C_A)	CW	(CA2)
M01c	28-10	1000	Wed	4901	520 520 520 282 58 282 58 999 580 10 = 09437 43547 58043 10235 36245 97906 62713 02313 91550 46296 = 580 10 111 000	CW	(F5JBR)
M01c	29-10	1411		3944	i.p. 60893 47529 41853 66865 10058 42922 17133 57595 03154 460262 8847 23015 98470 77986 83303 73827 53063 = 253 18 000	CW	(CA2)
M01d	13-10	1116	Tue	8819	51 444 51 444 51 444 3693 3693 69 51 444 51 444 51 444 111 111 000 000	CW	(JPL-Sib)
M03	1-10	1320		9150	438/37 == 51466 03658 25953 ... 42249 89848 97321 == 438/37 == rpt msg == 000 (VVV at 1313 UTC)	CW	(AB)
M03	4-10	1320		9150	438/37 == 51466 03658 25953 97984 80136 ... 16090 47340 42249 89848 97321 = 438/37 (Rpts) 000	CW	(MPJ)
M03	8-10	1320		9150	437/00 == 000 (VVV's at 1312, 1314, 1316 and 1318 UTC)	CW	(AB)
M03	11-10	1320		9150	437/00 == 000 (VVV's at 1313 UTC)	CW	(AB)
M03	14-10	1320	Wed	5463	543/00 == 000	CW	(AB)
M03	15-10	1322		9150	437/00 == 000. Started 2 mins late in the middle of the transmission	CW	(AB)
M03	18-10	1320		9150	437/00 == 000	CW	(AB)

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M03	19-10	1320	Mon	5463	540/37 == 44826 01888 94222 ... 74968 51609 62993 == 540/37 == rpt msg == 540/37 == 000	CW	(AB)
M03	22-10	1320		9150	437/00 == 000	CW	(AB)
M03	26-10	1320	Mon	5463	543/00 == 000 (VVV at 1312 UTC)	CW	(AB/MPJ)
M03	28-10	1320	Wed	5463	543/00 == 000	CW	(AB)
M03	29-10	1320		9150	437/00 == 000	CW	(AB)
M08	11-10	1403		8096	AGNRN NNWTA DWTNN into cut nbrs	CW	(DSch)
M08a	1-10	2257		8135	WARDA RUTWN IIUGA then into tfc.	CW	(DSch)
M08a	2-10	2302	Fri	8135	In tfc	CW	(DSch)
M08a	4-10	1355		8096	AGNRN NNWTA DWTNN into msg	CW	(DSch)
M08a	4-10	2018		7554	i.p.	CW	(DSch)
M08a	5-10	2257	Mon	8009	UNDUA stops then RAWDA GUGRN TRDGN into tfc	CW	(DSch)
M08a	6-10	2013	Tue	7554	In tfc	CW	(DSch)
M08a	7-10	1357	Wed	8096	GGDIN TNITA AWADA into tfc	CW	(DSch)
M08a	7-10	2000	Wed	7554	Too noisy to copy	CW	(DSch)
M08a	7-10	2302	Wed	8009	In tfc	CW	(DSch)
M08a	8-10	2301		8135	In tfc	CW	(DSch)
M08a	10-10	1359	Sat	8096	In tfc	CW	(DSch)
M08a	10-10	2001	Sat	7554	In tfc	CW	(DSch)
M08a	10-10	2301	Sat	8009	AGNRN NNWTA DWTNN. Mixing with HM01	CW	(DSch)
M08a	11-10	2024		7554	In tfc	CW	(DSch)
M08a	12-10	1358	Mon	8096	GNGIN RWANA IGUNA and into tfc	CW	(DSch)
M08a	13-10	1419	Tue	8096	in tfc	CW	(DSch)
M08a	13-10	1959	Tue	7554	WOGUN IWRIN GTRTN and into tfc	CW	(DSch)
M08a	13-10	2258	Tue	8135	In tfc	CW	(DSch)
M08a	14-10	1401	Wed	8096	In tfc, bad keying	CW	(DSch)
M08a	14-10	1940	Wed	7554	Tuned xmtr but no tfc	CW	(DSch)
M08a	14-10	2255	Wed	8009	WGDTA .....T.NN, bad keying	CW	(DSch)
M08a	15-10	1413		8096	Bad keying and sig has faint echo	CW	(DSch)
M08a	15-10	1945		7554	DATRA UDDTA WRRNN into msg	CW	(DSch)
M08a	15-10	2305		8135	In tfc	CW	(DSch)
M08a	16-10	1357	Fri	8096	WWTAN IGDUN GNRRA into tfc	CW	(DSch)
M08a	16-10	1759	Fri	7554	WANDN RDTRN IITGN into tfc	CW	(DSch)
M08a	16-10	2305	Fri	8135	Goes right into tfc, no callup	CW	(DSch)
M08a	17-10	1422	Sat	8096	AGNRN NNWTGA DWTNN into tfc.	CW	(DSch)
M08a	17-10	1957	Sat	7554	AGNRN NNWTA DWTNN into tfc	CW	(DSch)
M08a	17-10	2243	Sat	8009	AGNRN NNWTA DWTNN into tfc.	CW	(DSch)
M08a	18-10	1349		8096	Tuned xmtr but no traffic followed	CW	(DSch)
M08a	19-10	1402	Mon	8096	In tfc	CW	(DSch)
M08a	19-10	1959	Mon	7554	In tfc	CW	(DSch)
M08a	19-10	2300	Mon	8009	GWGIA BT into msg	CW	(DSch)
M08a	20-10	2007	Tue	7554	In tfc	CW	(DSch)
M08a	20-10	2257	Tue	8135	GRGIA TTAN ADWDA into tfc	CW	(DSch)
M08a	21-10	1410	Wed	8096	In tfc	CW	(DSch)
M08a	22-10	1357		8096	TWRNA AGTWA NADIN into tfc	CW	(DSch)
M08a	22-10	1959		7554	Unreadable	CW	(DSch)
M08a	24-10	1345	Sat	8096	Tuning transmitter but no traffic	CW	(DSch)
M08a	25-10	1359		8096	AGNRN NNWTA DWTNN into tfc	CW	(DSch)
M08a	25-10	1959		7554	AGNRN NNWTA DWTNN into tfc	CW	(DSch)
M08a	25-10	2257		8135	AGNRN NNWTA DWTNN (mixing with HM01 sig)	CW	(DSch)
M08a	26-10	2257	Mon	8009	RNAAA IWUDN TGIRA, mixing with HM01. HM01 stops at 2300 UTC	CW	(DSch)
M08a	27-10	1957	Tue	7554	DAGDN UUNRA WIWGN	CW	(DSch)
M08a	27-10	2258	Tue	8135	GNTIA WWDNN IGRWN	CW	(DSch)
M08a	28-10	1352	Wed	8096	NAWDA UDTRA WRDGN into tfc	CW	(DSch)
M08a	28-10	2002	Wed	7554	Too weak to copy	CW	(DSch)
M08a	28-10	2255	Wed	8009	RIRGA IAANN TUUUA	CW	(DSch)
M08a	29-10	2300		8135	DNIUN UWARA WGWTN into tfc	CW	(DSch)
M08a	30-10	1328	Fri	8096	Xmtr tuned then noise comes on freq. No callups. Goes right into callups at 1408 UTC: IUIR WITUG WIITN ...	CW	(DSch)
M08a	30-10	2316	Fri	8135	Noise present. In traffic	CW	(DSch)
M08a	31-10	1400	Sat	8096	AGNRN NNWTA DWTNN into tfc.	CW	(DSch)
M08a	31-10	1730	Sat	7554	Noise on freq. At 1858z: AGNRN NNWTA DWTNN	CW	(DSch)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrlb
M08a	31-10	2302	Sat	8009	AGNRN NNBWTA DWTNN Noise on freq.	CW	(DSch)
M12	1-10	1800		10343	124 1 6376 141 01407 96839 99719 11469 30166 ... 77941 79350 98310 39573 16733 000 000	CW	(MPJ)
M12	1-10	1820		9264	124 1 6376 141 01407 96839 99719 11469 30166 ... 77941 79350 98310 39573 16733 000 000	CW	(MPJ)
M12	1-10	1840	Thu	8116	124 1 6376 141 01407 96839 99719 11469 30166 ... 77941 79350 98310 39573 16733 000 000	CW	(MPJ)
M12	1-10	1900		10343	124 1	CW	(HFD)
M12	1-10	1920		9264	124 1	CW	(HFD)
M12	1-10	1940		8116	124 1	CW	(HFD)
M12	1-10	1940	Sat	8116	124 1 3516 100 06587 64743 52394 75650 97969 ... 53556 37564 68172 49813 69194 000 000	CW	(MPJ)
M12	3-10	0520		7932	892 892 892 000	CW	(AB)
M12	3-10	1310		12214	282 0	CW	(HFD)
M12	3-10	1330		10814	282 282 282 000	CW	(AB)
M12	3-10	1330	Sat	10814	282 0	CW	(HFD)
M12	3-10	2110	Sat	10269	229 0	CW	(HFD)
M12	3-10	2130	Sat	9269	229 0	CW	(HFD)
M12	5-10	0430	Mon	4617	638 0	CW	(HFD)
M12	5-10	0450	Mon	5317	638 0	CW	(HFD)
M12	5-10	1140	Mon	14728	973 1 6962 47036 00807 54805 ... 05295 71502 13449 000 000	CW	(AB)
M12	5-10	1700	Mon	11435	938 1 8577 107 23726 10395 67448 ... 00043 33610 73963 000 000	CW	(AB)
M12	5-10	1700	Mon	11435	938 1	CW	(HFD)
M12	5-10	1720	Mon	10598	938 1	CW	(HFD)
M12	5-10	1720	Mon	10598	938 1 8577 107 23726 10395 67448 ... 00043 33610 73963 000 000	CW	(AB)
M12	5-10	1740	Mon	9327	938 1	CW	(HFD)
M12	5-10	1740	Mon	9237	938 1 8577 107 23726 10395 67448 ... 00043 33610 73963 000 000	CW	(AB)
M12	5-10	1800	Mon	8047	463 1	CW	(HFD)
M12	5-10	1800	Mon	8047	463 1 5261 146 60653 08490 82339 ... 63244 23438 39697 000 000	CW	(AB/MPJ)
M12	5-10	1820	Mon	6802	463 1 5261 146 60653 08490 82339 ... 63244 23438 39697 000 000	CW	(MPJ)
M12	5-10	1820	Mon	6802	463 1	CW	(HFD)
M12	5-10	1840	Mon	5788	463 1 5261 146 60653 08490 82339 ... 63244 23438 39697 000 000	CW	(MPJ)
M12	5-10	1840	Mon	5788	463 1	CW	(HFD)
M12	5-10	2000	Mon	8047	463 1 5582 70 18888 24370 18313 26326 30750 ... 86061 58204 04129 35360 93044 000 000	CW	(MPJ)
M12	6-10	1930	Tue	10343	124 1 9320 64 45689 34376 78844 17086 67921 ... 06646 36775 00907 71421 27277 000 000	CW	(MPJ)
M12	6-10	1950	Tue	9264	124 1 9320 64 45689 34376 78844 17086 67921 ... 06646 36775 00907 71421 27277 000 000	CW	(MPJ)
M12	6-10	2000	Tue	8047	463 1 5166 82 76163 41724 92208 23686 56914 ... 08029 43606 51197 93074 81420 000 000	CW	(MPJ)
M12	7-10	1800	Wed	9176	257 1 116 117 04545 60448 41497 01986 89770 ... 00086 33280 29159 34773 89252 000 000	CW	(MPJ)
M12	7-10	1820	Wed	7931	257 1 116 117 04545 60448 41497 01986 89770 ... 00086 33280 29159 34773 89252 000 000	CW	(MPJ)
M12	7-10	1840	Wed	6904	257 1 116 117 04545 60448 41497 01986 89770 ... 00086 33280 29159 34773 89252 000 000	CW	(MPJ)
M12	7-10	1900	Wed	8047	463 1 8357 148 13090 00109 18148 88903 08346 ... 20232 57800 03752 06878 81900 000 000	CW	(MPJ)
M12	7-10	1920	Wed	6802	463 1 8357 148 13090 00109 18148 88903 08346 ... 20232 57800 03752 06878 81900 000 000	CW	(MPJ)
M12	7-10	1940	Wed	5788	463 1 8357 148 13090 00109 18148 88903 08346 ... 20232 57800 03752 06878 81900 000 000	CW	(MPJ)
M12	7-10	2100	Wed	5814	826 1	CW	(HFD)
M12	7-10	2120	Wed	5214	826 1	CW	(HFD)
M12	7-10	2140	Wed	4614	826 1	CW	(HFD)
M12	8-10	1500		13386	725 1 787 121 82108 56401 31100 30645 47321 ... 67418 83551 77227 82893 99827 000 000	CW	(MPJ)
M12	8-10	1520		12189	725 1 787 121 82108 56401 31100 30645 47321 ... 67418 83551 77227 82893 99827 000 000	CW	(MPJ)
M12	8-10	1540		11491	725 1 787 121 82108 56401 31100 30645 47321 ... 67418 83551 77227 82893 99827 000 000	CW	(MPJ)
M12	8-10	1700		13386	725 1 6571 116 47631 05635 76099 47143 67435 ... 59235 13088 46247 19510 77901 000 000	CW	(MPJ)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M12	8-10	1720		12189	725 1 6571 116 47631 05635 76099 47143 67435 ... 59235 13088 46247 19510 77901 000 000	CW	(MPJ)
M12	8-10	1800		10343	124 1 5092 142 09528 15082 30885 83428 30976 ... 36450 75372 60364 29067 55479 000 000	CW	(MPJ)
M12	8-10	1820		9264	124 1 5092 142 09528 15082 30885 83428 30976 ... 36450 75372 60364 29067 55479 000 000	CW	(MPJ)
M12	8-10	1840		8116	124 1 5092 142 09528 15082 30885 83428 30976 ... 36450 75372 60364 29067 55479 000 000	CW	(MPJ)
M12	8-10	1900		10343	124 1 2148 105 53358 50076 19417 22505 55867 ... 52277 20107 81497 04777 74884 000 000	CW	(MPJ)
M12	8-10	1920		9264	124 1 2148 105 53358 50076 19417 22505 55867 ... 52277 20107 81497 04777 74884 000 000	CW	(MPJ)
M12	9-10	1500	Fri	20036	064 1 760 69 06937 06534 93490 62096 46778 ... 90849 74505 000	CW	(MPJ)
M12	9-10	1540	Fri	17436	064 1 760 69 06937 06534 93490 62096 46778 ... 90849 74505 000	CW	(MPJ)
M12	9-10	2000	Fri	8047	463 1 982 _3 3671_ 54... (uncopiable)	CW	(MPJ)
M12	11-10	2000		8047	463 1 7945 83 58105 625.1 84934 49.25 013.. ... 25297 30451 .0257 0449. 000 000	CW	(MPJ)
M12	12-10	1720	Mon	10598	938 1 9212 110 66948 26746 47321 83014 26295 ... 28674 79547 69547 95554 28627 000 000	CW	(MPJ)
M12	12-10	1740	Mon	9327	938 1 9212 110 66948 26746 47321 83014 26295 ... 28674 79547 69547 95554 28627 000 000	CW	(MPJ)
M12	12-10	1800	Mon	8047	463 1 unreadable	CW	(MPJ)
M12	12-10	1820	Mon	6802	463 1 unreadable	CW	(MPJ)
M12	12-10	1840	Mon	5788	463 1 7007 150 06179 73141 65771 42109 09147 ... 53930 18787 04665 00746 57423 000 000	CW	(MPJ)
M12	12-10	2000	Mon	8047	463 1 933 75 03106 99766 65588 37126 31878 ... 29051 unreadable	CW	(MPJ)
M12	13-10	1930	Tue	10343	124 1 7106 61 05441 50166 51365 43841 47249 ... 63837 55989 63594 71185 23687 000 000	CW	(MPJ)
M12	13-10	1950	Tue	9264	124 1 7106 61 05441 50166 51365 43841 47249 ... 63837 55989 63594 71185 23687 000 000	CW	(MPJ)
M12	13-10	2000	Tue	8047	463 1 933 75 03106 99766 65599 37126 31878 ... 29051 26815 55583 48621 51922 000 000	CW	(MPJ)
M12	14-10	1800	Wed	9176	257 1 116 117 0430. 60448 41.87 02986 .897. ... 00086 33280 29159 34773 89253 000 000	CW	(MPJ)
M12	14-10	1820	Wed	7931	257 1 116 117 0430. 60448 41.87 02986 .897. ... 00086 33280 29159 34773 89253 000 000	CW	(MPJ)
M12	14-10	1840	Wed	6904	257 1 116 117 0430. 60448 41.87 02986 .897. ... 00086 33280 29159 34773 89253 000 000	CW	(MPJ)
M12	15-10	0630	Thu	6784	761 0	CW	(HFD)
M12	15-10	0650	Thu	7684	761 0	CW	(HFD)
M12	15-10	1330		10814	282 282 282 000	CW	(AB)
M12	15-10	1500		13386	725 1 886 138 57275 94844 31522 55076 87345 ... 15836 36423 51626 32718 16519 000 000	CW	(AB/MPJ)
M12	15-10	1520		12189	725 1 886 138 57275 94844 31522 55076 87345 ... 15836 36423 51626 32718 16519 000 000	CW	(AB)
M12	15-10	1540		11491	725 1 886 138 57275 94844 31522 55076 87345 ... 15836 36423 51626 32718 16519 000 000	CW	(AB)
M12	15-10	1800		10343	124 1 6049 145 49002 07394 67774 72517 32209 ... 68673 89729 30842 81867 86086 000 000	CW	(MPJ)
M12	15-10	1820		9264	124 1 6049 145 49002 07394 67774 72517 32209 ... 68673 89729 30842 81867 86086 000 000	CW	(MPJ)
M12	15-10	1840		8116	124 1 6049 145 49002 07394 67774 72517 32209 ... 68673 89729 30842 81867 86086 000 000	CW	(MPJ)
M12	15-10	2000		8047	463 1 31.. 58 59872 14757 27454 154.. 96797 ...	CW	(MPJ)
M12	16-10	1540	Fri	17436	064 1 5539 114 80921 34566 73059 66468 00427 ... 62282 78588 59406 73646 18449 000 000	CW	(MPJ)
M12	16-10	2000	Fri	8047	463 1 (preamble missed) 41340 92587 83278 30745 19752 ... 38789 15728 64395 35004 17768 000 000	CW	(MPJ)
M12	17-10	1310	Sat	12214	282 282 282 000	CW	(AB/MPJ)
M12	17-10	1330	Sat	10814	282 282 282 000	CW	(AB/MPJ)
M12	17-10	2000	Sat	8047	463 1 863 114 41340 92587 83278 30745 19752 ... 38789 15728 64395 35004 17668 000 000	CW	(MPJ)
M12	19-10	1120	Mon	13559	Technical problems. Sends only garbage	CW	(AB)
M12	19-10	1140	Mon	14728	973 1 ... unreadable	CW	(AB)
M12	19-10	1700	Mon	11435	938 1 3974 113 19929 57505 20267 07776 85214 ... 08294 98161 54482 40076 83698 000 000	CW	(MPJ)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M12	19-10	1720	Mon	10598	938 1 3974 113 19929 57505 20267 07776 85214 ... 08294 98161 54482 40076 83698 000 000	CW	(MPJ)
M12	19-10	1740	Mon	9327	938 1 3974 113 19929 57505 20267 07776 85214 ... 08294 98161 54482 40076 83698 000 000	CW	(MPJ)
M12	19-10	1800	Mon	8047	463 1 4804 142 62909 06809 85149 77367 79945 ... 47377 45794 60561 51847 01388 000 000	CW	(MPJ)
M12	19-10	1820	Mon	6802	463 1 4804 142 62909 06809 85149 77367 79945 ... 47377 45794 60561 51847 01388 000 000	CW	(MPJ)
M12	19-10	1840	Mon	5788	463 1 4804 142 62909 06809 85149 77367 79945 ... 47377 45794 60561 51847 01388 000 000	CW	(MPJ)
M12	19-10	2000	Mon	8047	463 1 8315 73 35096 99598 70529 ... 58513 67116 47741 000 000	CW	(AB/MPJ)
M12	19-10	2020	Mon	6802	463 1 8315 73 35096 99598 70529 ... 58513 67116 47741 000 000	CW	(AB)
M12	19-10	2040	Mon	5788	463 1 8315 73 35096 99598 70529 ... 58513 67116 47741 000 000	CW	(AB)
M12	20-10	1930	Tue	10343	124 1 9677 69 35296 37362 11308 34559 56268 ... 30658 80601 85208 14567 50500 000 000	CW	(MPJ)
M12	20-10	1950	Tue	9264	124 1 9677 69 35296 37362 11308 34559 56268 ... 30658 80601 85208 14567 50500 000 000	CW	(MPJ)
M12	20-10	2000	Tue	8047	463 1 5707 79 17217 78075 98516 76061 14690 ... 48115 79906 05034 36662 35295 000 000	CW	(MPJ)
M12	21-10	0730	Wed	18254	324 324 324 000	CW	(AB)
M12	21-10	1841	Wed	6904	257 1 566 135 54611 11749 25679 27647 29486 63949 95702 06927 78029 ...	CW	(JPL-Sib)
M12	21-10	2130	Wed	9269	221 221 221 000	CW	(AB)
M12	22-10	0630		6784	761 761 761 000	CW	(AB)
M12	22-10	0650		7684	761 761 761 000	CW	(AB)
M12	22-10	1330		10814	282 282 282 000	CW	(AB)
M12	22-10	2000		8047	463 1 9103 90 ...	CW	(AB)
M12	22-10	2020		6802	463 1 9103 90 ...	CW	(AB)
M12	24-10	0500	Sat	6832	892 1	CW	(HFD)
M12	24-10	0520	Sat	7932	892 0	CW	(HFD)
M12	24-10	1310	Sat	12214	282 282 282 000	CW	(AB)
M12	24-10	1330	Sat	10814	282 282 282 000	CW	(AB)
M12	24-10	2000	Sat	8047	463 1 4343 72 48809 25978 30894 ... 51909 24596 32561 000 000	CW	(AB)
M12	24-10	2020	Sat	6802	463 1 4343 72 48809 25978 30894 ... 51909 24596 32561 000 000	CW	(AB)
M12	24-10	2040	Sat	5788	463 1 4343 72 48809 25978 30894 ... 51909 24596 32561 000 000	CW	(AB)
M12	24-10	2110	Sat	10269	229 229 229 000	CW	(AB)
M12	24-10	2130	Sat	9269	229 229 229 000	CW	(AB)
M12	25-10	2000		8047	463 1 1072 76 03233 87999 21537 81510 61843 ... 63918 66017 16056 81927 60095 000 000	CW	(MPJ)
M12	25-10	2020		6802	463 1 1072 76 03233 87999 21537 81510 61843 ... 63918 66017 16056 81927 60095 000 000	CW	(MPJ)
M12	25-10	2040		5788	463 1 1072 76 03233 87999 21537 81510 61843 ... 63918 66017 16056 81927 60095 000 000	CW	(MPJ)
M12	26-10	0430	Mon	4617	638 638 638 000	CW	(AB)
M12	26-10	0450	Mon	5317	638 638 638 000	CW	(AB)
M12	26-10	1100	Mon	12205	973 1	CW	(HFD)
M12	26-10	1120	Mon	13559	973 1	CW	(HFD)
M12	26-10	1140	Mon	14728	973 1	CW	(HFD)
M12	26-10	1800	Mon	8047	463 1 7755 142 38647 55306 87218 53996 89724 ... 54720 29372 71355 33468 94754 000 000	CW	(MPJ)
M12	26-10	1820	Mon	6802	463 1 7755 142 38647 55306 87218 53996 89724 ... 54720 29372 71355 33468 94754 000 000	CW	(MPJ)
M12	26-10	1840	Mon	5788	463 1 7755 142 38647 55306 87218 53996 89724 ... 54720 29372 71355 33468 94754 000 000	CW	(MPJ)
M12	26-10	1900	Mon	9176	257 1	CW	(HFD)
M12	26-10	1900	Mon	9176	257 1 2608 70 45660 02350 76107 68740 41422 ... 69410 50209 06500 08017 53948 000 000	CW	(MPJ)
M12	26-10	1920	Mon	7931	257 1	CW	(HFD)
M12	26-10	1920	Mon	7931	257 1 2608 70 45660 02350 76107 68740 41422 ... 69410 50209 06500 08017 53948 000 000	CW	(MPJ)
M12	26-10	1940	Mon	6904	257 1 2608 70 45660 02350 76107 68740 41422 ... 69410 50209 06500 08017 53948 000 000	CW	(MPJ)
M12	26-10	1940	Mon	6904	257 1	CW	(HFD)
M12	26-10	2000	Mon	8047	463 1 2347 74 89570 53457 39156 88635 24238 ... 48975 38718 40180 40587 31293 000 000	CW	(MPJ)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M12	26-10	2020	Mon	6802	463 1 2347 74 89570 53457 39156 88635 24238 ... 48975 38718 40180 40587 31293 000 000	CW	(MPJ)
M12	26-10	2040	Mon	5788	463 1 2347 74 89570 53457 39156 88635 24238 ... 48975 38718 40180 40587 31293 000 000	CW	(MPJ)
M12	27-10	1930	Tue	10343	124 1 5538 59 40354 50270 83570 4523 95451 ... 76904 90211 63428 01211 43439 000 000	CW	(MPJ)
M12	27-10	1950	Tue	9264	124 1 5538 59 40354 50270 83570 4523 95451 ... 76904 90211 63428 01211 43439 000 000	CW	(MPJ)
M12	27-10	2000	Tue	8047	463 1 191 128 05374 75586 93924 60220 89592 ... 66589 64998 49425 65860 87993 000 000	CW	(MPJ)
M12	27-10	2010	Tue	8116	124 1 5538 59 40354 50270 83570 4523 95451 ... 76904 90211 63428 01211 43439 000 000	CW	(MPJ)
M12	27-10	2020	Tue	6802	463 1 191 128 05374 75586 93924 60220 89592 ... 66589 64998 49425 65860 87993 000 000	CW	(MPJ)
M12	27-10	2040	Tue	5788	463 1 191 128 05374 75586 93924 60220 89592 ... 66589 64998 49425 65860 87993 000 000	CW	(MPJ)
M12	28-10	1800	Wed	9176	257 1 845 84 42918 01474 24504 ... 64331 56838 22534 000 000	CW	(AB)
M12	28-10	1820	Wed	7931	257 1 845 84 42918 01474 24504 ... 64331 56838 22534 000 000	CW	(AB)
M12	28-10	1840	Wed	6904	257 1 845 84 42918 01474 24504 ... 64331 56838 22534 000 000	CW	(AB)
M12	28-10	1900	Wed	8047	463 1 6137 136 93411 00245 42190 32904 54021 ... 95058 52076 93985 65925 94532 000 000	CW	(MPJ)
M12	28-10	1920	Wed	6802	463 1 6137 136 93411 00245 42190 32904 54021 ... 95058 52076 93985 65925 94532 000 000	CW	(MPJ)
M12	28-10	1930	Wed	11435	938 1 5728 61 44392 90267 97422 09831 90889 ... 40747 47819 41416 09966 38923 000 000	CW	(MPJ)
M12	28-10	1940	Wed	5788	463 1 6137 136 93411 00245 42190 32904 54021 ... 95058 52076 93985 65925 94532 000 000	CW	(MPJ)
M12	28-10	1950	Wed	10598	938 1 5728 61 44392 90267 97422 09831 90889 ... 40747 47819 41416 09966 38923 000 000	CW	(MPJ)
M12	28-10	2000	Wed	8047	463 1 191 128 05374 75586 93924 60220 89592 ... 66589 64998 49425 65860 87993 000 000	CW	(MPJ)
M12	28-10	2010	Wed	9327	938 1 5728 61 44392 90267 97422 09831 90889 ... 40747 47819 41416 09966 38923 000 000	CW	(MPJ)
M12	28-10	2020	Wed	6802	463 1 191 128 05374 75586 93924 60220 89592 ... 66589 64998 49425 65860 87993 000 000	CW	(MPJ)
M12	28-10	2040	Wed	5788	463 1 191 128 05374 75586 93924 60220 89592 ... 66589 64998 49425 65860 87993 000 000	CW	(MPJ)
M12	28-10	2100	Wed	5814	826 826 826 000	CW	(MPJ)
M12	29-10	0650		7684	761 761 761 000	CW	(AB)
M12	29-10	1330		10814	282 282 282 000	CW	(AB)
M12	29-10	1500		13386	725 1 159 152 36989 59658 96079 05912 89283 ... 57945 26875 11571 14748 49354 000 000	CW	(MPJ)
M12	29-10	1520		12189	725 1 159 152 36989 59658 96079 05912 89283 ... 57945 26875 11571 14748 49354 000 000	CW	(MPJ)
M12	29-10	1540		11491	725 1 159 152 36989 59658 96079 05912 89283 ... 57945 26875 11571 14748 49354 000 000	CW	(MPJ)
M12	29-10	1800		10343	124 1 423 154 43029 64082 37420 41149 ... 09473 81074 28427 53643 95623 13039 000 000	CW	(AB/MPJ)
M12	29-10	1820		9264	124 1 4623 154 43029 64082 37420 41149 84548 ... 81074 28427 53643 95623 13039 000 000	CW	(MPJ)
M12	29-10	1840		8116	124 1 4623 154 43029 64082 37420 41149 84548 ... 81074 28427 53643 95623 13039 000 000	CW	(MPJ)
M12	29-10	2000		8047	463 1 2958 61 58618 94293 09094 16873 76921 ... 31773 83024 04714 93377 56161 000 000	CW	(MPJ)
M12	29-10	2020		6802	463 1 2958 61 58618 94293 09094 16873 76921 ... 31773 83024 04714 93377 56161 000 000	CW	(MPJ)
M12	29-10	2040		5788	463 1 2958 61 58618 94293 09094 16873 76921 ... 31773 83024 04714 93377 56161 000 000	CW	(MPJ)
M12	30-10	1520	Fri	18636	064 064 064 000	CW	(MPJ)
M12	30-10	2020	Fri	6802	463 1 7613 68 19515 59378 85889 77902 26188 ... 37144 39211 86778 39388 80236 000 000	CW	(AB/MPJ)
M12	30-10	2040	Fri	5788	463 1 7613 68 19515 59378 85889 77902 26188 ... 37144 39211 86778 39388 80236 000 000	CW	(AB/MPJ)
M12	31-10	0500	Sat	6832	892 892 892 000	CW	(AB)
M12	31-10	0520	Sat	7932	892 892 892 000	CW	(AB)
M12	31-10	1310	Sat	12214	282 282 282 000	CW	(MPJ)



Code	Date	UTC	Day	Freq	Details	Mode	Ctrl
M12	31-10	1330	Sat	10814	282 282 282 000	CW	(MPJ)
M14	2-10	1700	Fri	5944	382 382 382 00000	MCW	(MPJ)
M14	2-10	1800	Fri	5477	382 382 382 00000	MCW	(MPJ)
M14	3-10	0800	Sat	5430	171	CW	(HFD)
M14	4-10	2000		7664	381 381 381 00000	CW	(MPJ)
M14	10-10	0800	Sat	5430	171 (R) 823 020 35091 47919 71061 ... 04169 25635 95438 823 020 00000 at 1812z E 00 0000E 0 0 000 E 0000 0 000 00 000 000 02546 99242 00731 38812 738 stops in the middle of the next figure	CW	(AB)
M14	10-10	0900	Sat	5560	171 (R) 823 020 35091 47919 71061 ... 04169 25635 95438 823 020 00000	CW	(AB)
M14	11-10	2300		5240	376 (R) 524 020 93295 26704 14838 ... 14238 26365 23051 524 020 00000	CW	(AB)
M14	12-10	0000	Mon	5825	376 (R) 524 020 93295 26704 14838 ... 14238 26365 23051 524 020 00000	CW	(AB)
M14	13-10	1820	Tue	5947	346 972 020 43765	CW	(HFD)
M14	13-10	1820	Tue	5947	346 972 020 43765 19832 72308 59265 71534 ... 48810 52981 48206 28881 93711 972 020 00000	MCW	(MPJ)
M14	13-10	1820	Tue	5947	346 (R) 972 020 43765 19832 72308 ... 48206 28881 93711 972 020 00000	CW	(AB)
M14	14-10	1920	Wed	5463	592 020 27856 43321 23321 93276 50908 ... 60221 92770 29845 10456 72878 592 020 00000	MCW	(MPJ)
M14	16-10	1700	Fri	5477	382 382 382 00000 //5944 kHz	MCW	(MPJ)
M14	16-10	1700	Fri	5944	382 382 382 00000 //5477 kHz	MCW	(MPJ)
M14	25-10	2300		5240	376 (R) 524 020 93295 26704 14838 ... 14238 26365 23051 524 020 00000	CW	(AB)
M14	26-10	0000	Mon	5825	376 (R) 524 020 93295 26704 14838 ... 14238 26365 23051 524 020 00000	CW	(AB)
M14	27-10	1820	Tue	5947	346 (R) 972 020 43765 19832 72308... 48206 28881 93711 972 020 00000	CW	(AB)
M14	28-10	1920	Wed	5463	537 592 020 27856 43321 93276 50908 41178 ... 60221 92770 29845 10456 72878 592 020 00000	MCW	(AB/MPJ)
M14	31-10	0900	Sat	5560	171 xxx 020 ...	CW	(AB)
M14?	4-10	0838		6460	951 951 951 (R) 04250 04250 01916 01916 44073 44073 ... 42333 42333 60622 60622 94732 94732 = = 235 235 63 63 00000	CW	(Danix)
M21	2-10	0432	Fri	4639.5	Russian Air Defence =990732??0????? =990733??0????? =990734??0????? =990735??0????? =990736??0?????	CW	(CA2)
M21	4-10	0746		7426	Russian Air Defence =16000986312648 =16000883312648 =993049??0?????? =11009883349 =991050??0?????? =1600098831210	CW	(CA2)
M21	4-10	1220		4537.5	9600 71 80 511 600 00 9600 864 21 87 15 20 517	CW	(CA2)
M21	5-10	1651	Mon	3536	=991951??0?????	CW	(JPL-Sib)
M21	6-10	0709	Tue	5245.5	9500 997 04 31 12 9701 996 36 98 14	CW	(CA2)
M21	6-10	0714	Tue	5189.5	9700 996 36 29 17 517 9700 41 10 511 500	CW	(CA2)
M21	6-10	0726	Tue	7426	=991026??0?????	CW	(AB)
M21	8-10	0216		3228.5	=990516??0?????? =990517??0?????? =990518??0?????? =990519??0?????? =990520??0??????	CW	(CA2)
M21	9-10	1854	Fri	3798.5	Russian Air Defence (PVO) 9909998357752 9902997988853	CW	(MPJ)
M21	13-10	0455	Tue	6231	Russian Air Defence =990754??0?????? =990755??0??????	CW	(CA2)
M21	19-10	0451	Mon	4272	=990651??8????? =990652??8????? =990653??8????? =990654??8?????	CW	(CA2)
M21	30-10	1926	Fri	4272	Russian Air Defence =992226??8????? =14000329023726 =14001329058326	CW	(AB)
M22	14-10	0230	Wed	2680	VVV DE 4XZ 4XZ	CW	(CA2)
M22	21-10	2325	Wed	10341	VVV de 4XZ followed by 5FG	CW	(JV)
M22	23-10	0744	Fri	10341	VVV DE 4XZ 4XZ = =	CW	(tING)
M22	23-10	0915	Fri	17325	4XZ Calling and Messages	CW	(F5JBR)
M22	24-10	1020	Sat	21620	4XZ Israeli Navy, Haifa	CW	(Danix)
M22	24-10	1145	Sat	17325	4XZ Calling and Messages (Bcast) //21620 kHz	CW	(F5JBR)
M22	24-10	1145	Sat	21620	4XZ Calling and Messages (Bcast) //17325 kHz	CW	(F5JBR)
M22	24-10	1212	Sat	21620	NR 955 WQ V BZ8D 259042 TY3Z GR 02 = = AR AR VVV DE 4XZ 4XZ = =	CW	(AB)
M22	24-10	1408	Sat	17325	4XZ Calling and Messages (Bcast) //10341 kHz	CW	(F5JBR)
M22	24-10	1408	Sat	10341	4XZ Calling and Messages (Bcast) //17325 kHz	CW	(F5JBR)
M22	25-10	1548		17325	VVV DE 4XZ 4XZ = = followed by message	CW	(AB)
M22	29-10	1900		10341	VVV DE 4XZ = =	CW	(PPA)
M23	2-10	1227	Fri	8030	564 (R25)	CW	(Danix)
M23	2-10	1327	Fri	8030	564 (R25)	CW	(Danix)
M23	3-10	1800	Sat	8030	00000 (R10) long dashes	CW	(Danix)
M23	5-10	1802	Mon	8028	i.p. 77291 82461 80553 28714 73946	CW	(BR)
M23	6-10	1202	Tue	8030	i.p. ...67. Ends 1202 UTC	CW	(BR)
M23	6-10	1205	Tue	8030	VVV 46167 38931 74809 82528 77291 82461 80553 28714 73946 27247 (1 min pause) rpt msg	CW	(BR)
M23	7-10	1250	Wed	8030	00000 (R12) (Changed at 1302z û no pause)	CW	(BR)
M23	7-10	1302	Wed	8030	55555 (R6)	CW	(BR)

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M23	7-10	1320	Wed	8030	66666 (R8)	CW	(BR)
M23	7-10	1336	Wed	8030	88888 (R10)	CW	(BR)
M23	7-10	1346	Wed	8030	55555 (x3)	CW	(BR)
M23	7-10	1348	Wed	8030	66666 (x3)	CW	(BR)
M23	7-10	1410	Wed	8030	55555 (R12)	CW	(BR)
M23	7-10	1425	Wed	8030	66666 (R6)	CW	(BR)
M23	7-10	1436	Wed	8030	66666 (R8)	CW	(BR)
M23	7-10	1452	Wed	8030	QQQ (x3)	CW	(BR)
M23	7-10	1456	Wed	8030	66666 (R2)	CW	(BR)
M23	7-10	1501	Wed	8030	66666 (R10)	CW	(BR)
M23	7-10	1520	Wed	8030	55555 (R8)	CW	(BR)
M23	8-10	1200		8030	00000 (R1)	CW	(BR)
M23	8-10	1201		8030	552 (R1)	CW	(BR)
M23	8-10	1201		8030	553 (R1)	CW	(BR)
M23	8-10	1201		8030	999 (R1)	CW	(BR)
M23	8-10	1207		8030	552 (R1)	CW	(BR)
M23	8-10	1229		8030	553 (R1)	CW	(AB/BR)
M23	8-10	1231		8030	553 (x3)	CW	(BR)
M23	8-10	1346		8030	111 (R1)	CW	(BR)
M23	8-10	1348		8030	553 (R1)	CW	(BR)
M23	8-10	1350		8030	553 (x2)	CW	(BR)
M23	12-10	1200	Mon	8030	00000 (R10)	CW	(BR)
M23	12-10	1245	Mon	8030	66666 (R1)	CW	(BR)
M23	12-10	1321	Mon	8030	11111 (x3) =	CW	(BR)
M23	12-10	1330	Mon	8030	VVV also at 1332z	CW	(BR)
M23	12-10	1505	Mon	8030	=	CW	(BR)
M23	12-10	1700	Mon	8030	66666 (R1m)	CW	(BR)
M23	12-10	1730	Mon	8030	66666 (R8)	CW	(BR)
M23	13-10	1300	Tue	8030	00000 (R10)	CW	(BR)
M23	13-10	1700	Tue	8030	00000 (R10) Long zero	CW	(BR)
M23	13-10	1900	Tue	8030	22222 (R10)	CW	(BR)
M23	13-10	1930	Tue	8030	22222 (R10)	CW	(BR)
M23	15-10	1331		8030	773 (x10)	CW	(BR)
M23	15-10	1333		8030	882 (x10)	CW	(BR)
M23	15-10	1346		8030	111 (x10)	CW	(BR)
M23	16-10	1237	Fri	8030	55555 (R10)	CW	(AB/BR)
M23	16-10	1304	Fri	8030	00000 (R4)	CW	(AB)
M23	16-10	1351	Fri	8030	00000 (R10)	CW	(BR)
M23	23-10	1905	Fri	8030	00000 (R)	CW	(PPA)
M32	2-10	1720	Fri	5472	M8TK DE IK7R K. M8TK DE IK7R QSA ? K. QSA 4 K. QTC 1 ZZC K into RTTY	CW	(JPL-Sib)
M32	4-10	1216		3340	CQ CQ DE 8NRX 8NRX K	CW	(JPL-Sib)
M32	4-10	1235		6811	XXX XXX MDVB MDVB 28149 DINGI 6676 0085	CW	(JPL-Sib)
M32	6-10	0514	Tue	5444	XXX PABA NAPIUWALXNYJ 4183 PORADKOWYJ 4808 K	CW	(CA2)
M32	6-10	0533	Tue	5214.5	XXX PABA NAPIUWALXNYJ 4183 POR <sub>T</sub> DKOWYJ 4808 K	CW	(CA2)
M32	6-10	0533	Tue	5282.5	XXX PABA NAPIUWALXNYJ 4183 POR <sub>T</sub> DKOWYJ 4808 K	CW	(CA2)
M32	6-10	0535	Tue	5282.5	XXX PABA ChPAT 5816 K	CW	(CA2)
M32	7-10	0723	Wed	4558	XXX MDVB 63646 LILOWYJ 6746 1675 K XXX MDVB 33417 WILACHa 5813 2231 K	CW	(CA2)
M32	7-10	0838	Wed	11465	XXX XXX XXX WEGI WEGI 95697 WYGONNYJ 7695 6084 K	CW	(AB)
M32	9-10	1243	Fri	15934	XXX WEGI 52524 BUZILXQIK 7792 0125 K	CW	(CA2)
M32	9-10	1543	Fri	3548	XXX XXX WEGI WEGI 72730 88412 BROJOANIK 1628 4420 K	CW	(JPL-Sib)
M32	9-10	1548	Fri	3835	ONJTX 19137 DINOPLINKA 0510 9298 K	CW	(JPL-Sib)
M32	12-10	0637	Mon	14439	OBZU OBZU OBZU DE 7UA5 7UA5 K XXX XXX WEGI WEGI 04189 TUKURINGA 9045 5161	CW	(AAI)
M32	12-10	0639	Mon	14439	XXX XXX WEGI WEGI 50212 KUNDAK 5660 1144	CW	(AAI)
M32	12-10	0644	Mon	14439	XXX XXX G5CX G5CX F2ET F2ET 24045 14027 RUNDUK 6373 9987	CW	(AAI)
M32	12-10	1625	Mon	4108	KS9A DE 7FKC QSA? K. KS9A QSA3. R K. AOXW DE 7FKC QSA? K. AOXW QSA 3 K. R K	CW	(JPL-Sib)
M32	12-10	1743	Mon	3872	TPAZ DE 6S8F K. QSV K. TPAZ DE 6S8F K. RPT K. R K	CW	(JPL-Sib)
M32	13-10	1423	Tue	5302	MIRNOY04 wkg out stations	CW	(CA2)
M32	14-10	0610	Wed	5366	XXX WEGI 17151 GUSTOJ 9508 0190 K	CW	(CA2)
M32	15-10	0521		4224	XXX FP3E 0940 PASSAVIR 3452 7931 6308 K	CW	(CA2)
M32	15-10	1751		2842	XXX KIBY 60150 TABURET 4772 6579 K	CW	(CA2)

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M32	19-10	1612	Mon	4072	XXX V7BR 14896 69022 MOLLIZIN 7717 0704 ZELEN- 0547 K	CW	(CA2)
M32	20-10	0819	Tue	4303	XXX IFDD 00000 00000 K	CW	(CA2)
M32	20-10	1530	Tue	6363	XXX XXX WEGI 82377 PRONOVA 0511 4142	CW	(Topol)
M32	20-10	1534	Tue	6363	XXX XXX WEGI 80523 PROTRAWNOJ 5608 0572	CW	(Topol)
M32	20-10	1535	Tue	6363	XXX XXX WEGI 80523 PROTRAWNOJ 5608 0572	CW	(Topol)
M32	20-10	1536	Tue	6363	XXX XXX RGT77 96586 ERUNOK 7165 9669	CW	(Topol)
M32	20-10	1540	Tue	6363	XXX XXX WEGI 12690 KORDA 9684 2477	CW	(Topol)
M32	20-10	1542	Tue	6363	XXX XXX SHEU 05077 22483 GRUM 0922 6968	CW	(Topol)
M32	21-10	1518	Wed	3841	XXX LOMO 25958 WODPOST 4167 8392 K	CW	(CA2)
M32	21-10	1534	Wed	3807	XXX WEGI 52573 PRUDONIST 5035 7131 K	CW	(CA2)
M32	21-10	1624	Wed	4591	XXX WEGI 65196 URONENNYJ 4041 0203 K	CW	(CA2)
M32	21-10	1624	Wed	4621	XXX WEGI 65196 URONENNYJ 4041 0203 K	CW	(CA2)
M32	21-10	1630	Wed	4072	XXX K1ZV XFDU 71642 92675 NIGILIZM 5383 2822 K	CW	(CA2)
M32	22-10	1130		8076	XXX WEGI WEGI 15561 68282 TAP 2867 068... . 9315 .2.3 K	CW	(JPL-Sib)
M32	22-10	1312		6957	DE RMW46 R K	CW	(JPL-Sib)
M32	22-10	1317		7575	XXX XXX RGT77 RGT77 33645 STILXWEN 7298 6156 K	CW	(JPL-Sib)
M32	25-10	0800		16228	XXX LR43 TENIOESKA PROWERKA 592 K	CW	(CA2)
M32	25-10	1238		8130	WEGI 78659 94627 BAKONGO 9048 1316 K	CW	(JPL-Sib)
M32	25-10	1240		7913	LOMO LOMO 73732 GASILKA 8553 6002 K	CW	(JPL-Sib)
M32	25-10	1241		6193	XXX MDVB 38673 NETWERDYJ 3912 0447 K	CW	(CA2)
M32	25-10	1241		6183	XXX 4HQP 16834 RETRONECIN 7557 1196 K	CW	(CA2)
M32	26-10	0534	Mon	3636	XXX MDVB 96822 NESUQUJ 3698 3417 K	CW	(CA2)
M32	26-10	0539	Mon	5378	XXX VZFY 73192 GELFIN 0214 7198 K	CW	(CA2)
M32	26-10	0553	Mon	4181	XXX WEGI 91866 PROTECIT 9286 7436 K	CW	(F5JBR)
M32	26-10	0600	Mon	4181	XXX 1QRF 39565 KROPLENYJ 6103 3631 K	CW	(F5JBR)
M32	26-10	0609	Mon	4181	XXX WEGI 66701 BRUTANA 9324 5052 K	CW	(F5JBR)
M32	26-10	0640	Mon	4807	XXX RLO WETER U 4 RAJONAM 67 Z8 I BEDOMU METER 4 ...ESA K	CW	(F5JBR)
M32	29-10	0735		14576	3O9Y 3O9Y DE 2YD2 JYD2 K. 2YD2 QSA 1 QSA ? K	CW	(AB)
M32a	7-10	1901	Wed	3797	390 391 395 396 398 404 405 407 408 411 412 413 414 415 416 418 419 420 AR RIC87 RIC87 RIC87 DE RCV RCV QTC 162 37 6 1936 162 = PRIP NOWOROSSIJSK 420 KARTA 38174 PORT NOWOEIOSIJSK ...	CW	(JPL-Sib)
M32a	7-10	1912	Wed	7861	RBL71 DE RAL2 QSA? K. RFH2 DE RAL2 QSA? K. RDU2 DE RAL2 QSA? K. DE ? K. RPT K. RHW2 DE RAL2 QSA? K	CW	(JPL-Sib)
M32a	9-10	0842	Fri	10543	RBE86 DE RCV QTC 594 36 6 1427 594 = NAWIP 038 2042 KARTA 32313 ITALI\A U\OENI\A ...	CW	(JPL-Sib)
M32a	9-10	0847	Fri	10540	VVV RJC66 DE RAA ZSD ? K. RAA DE RJC66 ZSD 3 K. RJC66 DE RAA ZSD 2 ZN. TRIDE- W'ATXTRIZN ...	CW	(JPL-Sib)
M32a	9-10	1250	Fri	4909.5	XXX REO 07020 OGNECWET 6754 2455 K	CW	(F5JBR)
M32a	10-10	1728	Sat	5775	Russian Navy. RKZ RKZ RKZ DE RVC RCV QTC 765 21 1 2016 765 = SML = ChTORMOROE PREDUPREVDENIE NR 722 ...	CW	(AB)
M32a	11-10	1231		4909.5	XXX REO 61827 AWIWAV 8066 9236 K. XXX REO 61144 SRAM OSLOW 8173 7172 K	CW	(F5JBR)
M32a	13-10	1352	Tue	4909.5	XXX REO KAUKA 17023 23383 01655 00300 79863 37112 79089 36686 00701 11700 K	CW	(F5JBR)
M32a	14-10	0732	Wed	4909.5	XXX REO 06469 HRIP 7438 4438 K	CW	(F5JBR)
M32a	14-10	0738	Wed	4909.5	XXX REO 14254 UMNOVENIE 6279 5349 K	CW	(F5JBR)
M32a	14-10	0959	Wed	4909.5	XXX REO 66662 BILEIN 2580 2321 K	CW	(F5JBR)
M32a	14-10	1015	Wed	4909.5	XXX RJD69 RDK96 RCD96 73404 BEZDELICA 0798 2677 K	CW	(F5JBR)
M32a	14-10	1242	Wed	4909.5	XXX RJD69 RDK96 RCD95 80386 ESM- BLIZOK 6628 2636 OBQNIK 7998 1328 K	CW	(F5JBR)
M32a	14-10	1305	Wed	4909.5	XXX RJD69 RDK96 RCD95 26803 ORGANIK 1140 9560 K	CW	(F5JBR)
M32a	14-10	1310	Wed	4909.5	XXX RJD69 RDK96 RCD95 46564 BRAMAK 6158 3661 K	CW	(F5JBR)
M32a	14-10	1313	Wed	4909.5	XXX RJD69 RDK96 RCD95 06098 BASKAK 3228 7028 K	CW	(F5JBR)
M32a	14-10	1320	Wed	4909.5	XXX RJD69 RDK96 RCD95 77959 ARDA 1339 4152 K	CW	(F5JBR)
M32a	14-10	1324	Wed	4909.5	XXX RJD69 RDK96 RCD95 76090 OPLYWOK 1692 6708 K	CW	(F5JBR)
M32a	14-10	1331	Wed	4909.5	XXX RJD69 RDK96 RCD95 82540 NITROFORM 6527 8649 K	CW	(F5JBR)
M32a	14-10	1400	Wed	4909.5	XXX RJD69 RDK96 RCD96 52596 ALABOR 4270 1991 K	CW	(F5JBR)
M32a	19-10	0733	Mon	4909.5	XXX REO 82633 SINISIT 3916 0509 K	CW	(F5JBR)
M32a	19-10	1151	Mon	4909.5	XXX REO KAUKA 30715 82534 01455 50011 10929 15877 15008 00701 11500 K	CW	(F5JBR)
M32a	19-10	1301	Mon	5269.5	XXX REO 30103 BATALXNYJ 2131 2149 K	CW	(F5JBR)
M32a	20-10	1552	Tue	4909.5	XXX REO 35401 ARHIMECET 2731 6443 K	CW	(CA2)
M32a	21-10	0928	Wed	4909.5	XXX REO 03640 PUTAGA 4911 9198 NEDOWESOK 9863 5998 K	CW	(F5JBR)
M32a	21-10	0943	Wed	4909.5	XXX REO 27691 ALOPIRIN 6003 1140 K	CW	(F5JBR)

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M32a	21-10	1836	Wed	5775	RIC87 RIC87 RIC87 DE RCV RCV QTC 229 62 21 13.0 229 = PRIP NOWOROSSIIJSK 439 KARTA 32105 ...	CW	(JPL-Sib)
M32a	21-10	1855	Wed	5391	i.p. 24361 94141 62311 ... 21030 = AR RJ128 K. RJS DE RJ128 PBL RPT = RJ128 063 33 21 1640 063 = OK? K	CW	(JPL-Sib)
M32a	22-10	0004		4580.5	VVV RJD99 DE RHF40 QSA? QTC	CW	(Topol)
M32a	22-10	0047		8345	RIT DE RMRV QYT4 QSX 8440 OK?	CW	(Topol)
M32a	22-10	0627		8345	VVV RIT DE RMRV QSA? QTC	CW	(Topol)
M32a	22-10	0627		4580.5	VVV RJD99 DE RJ170 QSA? QTC	CW	(Topol)
M32a	22-10	1130		4909.5	XXX REO 661863 ORLEAN 8605 6315 KONIOESKIJ 3283 7846 K	CW	(F5JBR)
M32a	22-10	1230		8210	XXX REO 05605 OSTROUHIIJ 7606 6509 K //4909.5	CW	(F5JBR)
M32a	22-10	1234		8210	XXX REO 36807 MARSILID 6799 1221 K //4909.5	CW	(F5JBR)
M32a	22-10	1256		8210	XXX REO 89890 ZAOZERXE 0833 5249 K //4909.5	CW	(F5JBR)
M32a	23-10	1211	Fri	6956	RGR91 DE RMW46 CR K. RGR95 DE RMW46 CR K. RGR96 23198 ALXT 83768668 K. RGR97 23198 ALXT 83768668 K. RGR98 23198 ALXT 83768668 K.	CW	(JPL-Sib)
M32a	23-10	1215	Fri	6956	RDQ81 23198 ALXT 83768668 K. RDQ81 DE RMW46 CR K. RGR88 23198 ALXT 83768668 K. RGR88 DE RMW46 CR K	CW	(JPL-Sib)
M32a	24-10	1730	Sat	4498.5	XXX REO KAUKA 17063 23383 02025 00355 70167 34204 70282 34284 00701 12030 K	CW	(F5JBR)
M32a	24-10	1745	Sat	4498.5	XXX RDO91 11594 METILOWYJ 4721 3958 K	CW	(F5JBR)
M32b	29-10	0811		8816	rjf94 rjc38 de 30506 qto 0805 qrd XLWF XLMV qbd 4800 qre 1035 k	CW	(WP3)
M41	5-10	0400	Mon	4265.5	IB4T IB4T =99169985411041928916 QDW ZWT ZQD QDW IB4T AR	CW	(CA2)
M41	5-10	0412	Mon	5896.5	IB4T IB4T =993343212 9919993366912	CW	(CA2)
M41	6-10	0511	Tue	4870.5	1998319808 1909799 IZOL ZZF ZUM ZXD ZEH ZZB ZKP RPT ZOF ZUM ZXD ZEH ZZB ZKP K a	CW	(CA2)
M41	6-10	1432	Tue	4265.5	IB4T IB4T 72219499219989210628712701722 RPT 72219499219989210628712701722 IB4T IB4T AR	CW	(CA2)
M41	11-10	1510		3844.5	VVV VVV QE8V 7221949710 996319916 173250175 M4ZS RPT 7221949710 996319916 173250175 M4ZS K	CW	(CA2)
M41	11-10	1524		3844.5	VVV VVV J2TR 722194 9503997 9693161 722301814 RPT 7221949503 99796931617223 722194 9503997 9693151722301815 556F K	CW	(CA2)
M41	20-10	1601	Tue	3798.5	7PU4 7PU4 7PU4 AR and 9938998546856 9938998542700 9938046904	CW	(CA2)
M41	23-10	0505	Fri	4870.5	IZOL QLW QSA ? QRK ? QXS AR and 977996583404 9776996582204 9776996589306 9775996518806	CW	(CA2)
M41	26-10	1430	Mon	3717.5	0526 837 2529 30 = 0257 836 2541 30 = 0526 837 7475 30 = 0526 83835 1832 = 0257 836 2543 32 = 0526 837 748752= 0526 836 3134 34 = 0257 836 2489 34 = 052583785	CW	(F5JBR)
M41	26-10	1501	Mon	3598	HN49 HN49 HN49 HN49 HN49 HN49 AR	CW	(F5JBR)
M41	26-10	1508	Mon	3363	6G5Y 6G5Y 6G5Y 6G5Y 6G5Y AR	CW	(F5JBR)
M41	26-10	1631	Mon	6914	TF5H TF5H TF5H TF5H TF5H AR	CW	(F5JBR)
M42	14-10	0331	Wed	5941	PRAT wkg MKDW (calling, exchanges QSA, QSY, QRX, acknowledgment messages) in CW, QTCs in FSK 50/500	FSK 50/500	(CA2)
M42	14-10	0622	Wed	5894.8	RWV73 de RND72 ZHC? ZHC? in CW and traffic in FSK 100/1000	FSK 100/1000	(CA2)
M42	14-10	0622	Wed	5369.8	RND72 De RWV73 ZHC? ZHC? in CW and traffic in FSK 100/1000	FSK 100/1000	(CA2)
M42	31-10	0954	Sat	19376	Russian Intel. Very long message	Hybrid MFSK80	(Danix)
M42	31-10	1115	Sat	15812	Russian Intel. Very long message	Hybrid MFSK80	(Danix)
M42	31-10	1215	Sat	13497	Russian Intel. Very long message	Hybrid MFSK80	(Danix)
M42	31-10	1241	Sat	17512	Russian Intel. Very long message	Hybrid MFSK80	(Danix)
M42	31-10	1313	Sat	19867	Russian Intel. Very long message	Hybrid MFSK80	(Danix)
M42	31-10	1626	Sat	6863	Russian Intel. Very long message	Hybrid MFSK80	(Danix)
M42b	3-10	0502	Sat	12198	K4MT/NT9P net. Wake-up Sequence	Baudot 50/500	(Danix)
M42b	3-10	0503	Sat	10294	K4MT/NT9P net. Wake-up Sequence	Baudot 50/500	(Danix)
M42b	3-10	0506	Sat	9108	K4MT/NT9P net. Wake-up Sequence	Baudot 50/500	(Danix)
M42b	3-10	0511	Sat	10672	K4MT/NT9P net. Wake-up Sequence	Baudot 50/500	(Danix)
M42b	3-10	0822	Sat	17420	K4MT/NT9P net. Traffic	Baudot 50/500	(Danix)
M42b	3-10	0826	Sat	14441	K4MT/NT9P net. Short data followed by hand sent CW: CFM QRU? K	Baudot 50/500 + CW	(Danix)
M42b	6-10	1212	Tue	5151	CFM QRV ZZC ZKO QSV K BK R 481 1220 K NIL SK	FSK 50/500	(CA2)
M42b	8-10	0507		3300	RUA41 de RUU76 ZHC? ZHC? encrrypted messages	FSK 100/500	(CA2)
M42b	12-10	1815	Mon	5936	KU8I de PGUN QSY 68278	CW	(CA2)
M42b	12-10	1816	Mon	6988	PGUN de KU8I QSA NO QSY 60889 K	CW	(CA2)
M42b	22-10	1224		4861	GDVA de VLKH QLP 20 K (QXS 5252 kHz)	CW	(CA2)
M42b	22-10	1226		5252	GDVA wkg VLKH (msg in FSK 50/500) QRU NIL SK	CW	(CA2)
M42b	22-10	1226		5034	VKGO de NCVZ QSA 1 QSY 86608 K	CW	(CA2)
M42b	22-10	1226		4881	VLKH wkg GDVA (msg in FSK 50/500) QRU NIL SK	CW	(CA2)
M42b	23-10	0716	Fri	9274	K4MT wkg NT9P (QSO in CW and msgs in FSK 50/500. Ends with: QRU NIL SK	CW	(CA2)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrlb
M42b	23-10	0801	Fri	14456	SVPH de FXKA QSW 79534 K	CW	(CA2)
M42b	23-10	0807	Fri	14441	FXKA wkg SVPH (QSO in CW and msgs in FSK 50/500. Ends with: QRU NIL SK	CW	(CA2)
M42b	26-10	0549	Mon	3873	QSA 3 QTC 1 followed by traffic in FSK 50/500 and ops chat in CW: CFM QRU NIL SK	CW	(CA2)
M42b	26-10	0611	Mon	4581	WKEX QSA ? K and QLO 10 K	CW	(CA2)
M42b	26-10	0617	Mon	4571	WKEX QSA 3 QYC 1 K	CW	(CA2)
M42b	26-10	0635	Mon	4035	i.p. 11166 42525 98660 ... = 527 30 = K (see N&O 217)	CW	(CA2)
M42b	26-10	0745	Mon	5271	QSA 3 QTC1 K	CW	(CA2)
M42b	26-10	0838	Mon	5311	VKGO de NCVZ QSA QSY 84608 K. BK QSA 4 K. OK QLP 20 K	CW	(CA2)
M42b	26-10	0844	Mon	5331	NCVZ wkg VKGO followed by traffic in FSK 50/500 and ops chat in CW: CFM NIL SK	CW	(CA2)
M42b	26-10	1703	Mon	5322	ZE4K wkg P8RK followed by traffic in FSK 50/500 and ops chat in CW: QRU NIL SK	CW	(CA2)
M42b	27-10	0619	Tue	4903	i.p. 5FGs CFM NIL SK	CW	(CA2)
M42b	27-10	1301	Tue	5046	VLKH wkg GDVA QLP10 K (Qsx 4768 kHz)	CW	(F5JBR)
M42b	27-10	1305	Tue	5046	VLKH wkg GDVA QLP40 K (Qsx 4778 kHz)	CW	(F5JBR)
M42b	27-10	1308	Tue	5086	VLKH wkg GDVA. Message in FSK 50/500. Ops chat in CW: QRU NIL SK (Qsx 4778 kHz)	CW	(F5JBR)
M42b	28-10	0625	Wed	5328	WL4I wkg BFRW QTC 1 K. ZTH ZTH K. NW 214 100 K. CFM NIL SK	CW	(F5JBR)
M42c	1-10	1900	Thu	8007	FSK 200/500	FSK 200/500	(HFD)
M42c	1-10	1900		8005	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	1-10	1910	Thu	5844	FSK 200/500	FSK 200/500	(HFD)
M42c	1-10	1910		5842	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	1-10	1920	Thu	4633	FSK 200/500	FSK 200/500	(HFD)
M42c	1-10	1920		4631	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	3-10	1200	Sat	19524	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	3-10	1210	Sat	17461	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	3-10	1220	Sat	15822	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	3-10	1810	Sat	11460	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	3-10	1820	Sat	9224	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	3-10	1830	Sat	7827	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	7-10	1840	Wed	11134	Russian diplo/intel. RYRYRY =8551 67078915540071571 ... )58125 +++++++37	FSK 200/500	(AB)
M42c	7-10	1850	Wed	9072	Russian diplo/intel. RYRYRY =8551 67078915540071571 ... )58125 +++++++37	FSK 200/500	(AB)
M42c	7-10	1900	Wed	7721	Russian diplo/intel. RYRYRY =8551 67078915540071571 ... )58125 +++++++37	FSK 200/500	(AB)
M42c	8-10	1900		8005	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	8-10	1910		5842	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	8-10	1920		4631	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	10-10	1210	Sat	15822	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	10-10	1210	Sat	17461	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	10-10	1810	Sat	11460	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	10-10	1820	Sat	9224	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	10-10	1830	Sat	7827	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	12-10	1840	Mon	11134	Russian diplo/intel. Msg	FSK 200/500	(AB)
M42c	12-10	1850	Mon	9072	Russian diplo/intel. Msg	FSK 200/500	(AB)
M42c	12-10	1900	Mon	7721	Russian diplo/intel. Msg	FSK 200/500	(AB)
M42c	15-10	1900		8005	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	15-10	1910		5842	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	15-10	1920		4631	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	17-10	1200	Sat	19524	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	17-10	1210	Sat	17461	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	17-10	1220	Sat	15822	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	17-10	1810	Sat	11462	FSK 200/500	FSK 200/500	(HFD)
M42c	17-10	1810	Sat	11460	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	17-10	1820	Sat	9226	FSK 200/500	FSK 200/500	(HFD)
M42c	17-10	1820	Sat	9224	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	17-10	1830	Sat	7829	FSK 200/500	FSK 200/500	(HFD)
M42c	17-10	1830	Sat	7827	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	22-10	1900		8005	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	22-10	1910		5842	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	22-10	1920		4631	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)
M42c	24-10	1200	Sat	19526	FSK 200/500	FSK 200/500	(HFD)
M42c	24-10	1200	Sat	19524	Russian diplo/intel. RYRYRY J5761 00000+++++++162	FSK 200/500	(AB)

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M42c	24-10	1210	Sat	17461	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB)
M42c	24-10	1210	Sat	17463	FSK 200/500	FSK 200/500	(HFD)
M42c	24-10	1220	Sat	15824	FSK 200/500	FSK 200/500	(HFD)
M42c	24-10	1220	Sat	15822	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB)
M42c	24-10	1810	Sat	11460	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB)
M42c	24-10	1820	Sat	9224	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB)
M42c	24-10	1830	Sat	7827	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB)
M42c	26-10	1536	Mon	9300	Continuous 464646	FSK 200/500	(Danix)
M42c	29-10	1900		8005	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB)
M42c	29-10	1910		5842	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB)
M42c	29-10	1920		4631	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB)
M42c	31-10	1200	Sat	19524	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	31-10	1210	Sat	17461	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	31-10	1220	Sat	15822	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	31-10	1810	Sat	11460	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB)
M42c	31-10	1820	Sat	9224	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB)
M42c	31-10	1830	Sat	7827	Russian diplo/intel. RYRYRY )5761 00000+++++++162	FSK 200/500	(AB)
M42d	1-10	1200		11171	Russian diplo/intel. Msg 055 on link 45136	FSK 200/1000	(AB)
M42d	1-10	1210		9244	Russian diplo/intel. Msg 055 on link 45136	FSK 200/1000	(AB)
M42d	1-10	1220		7609	Russian diplo/intel. Msg 055 on link 45136	FSK 200/1000	(AB)
M42d	2-10	0700	Fri	10539	Russian diplo/intel. Msg 107 on link 45136	FSK 200/1000	(AB)
M42d	2-10	0710	Fri	8111	Russian diplo/intel. Msg 107 on link 45136	FSK 200/1000	(AB)
M42d	2-10	0720	Fri	6789	Russian diplo/intel. Msg 107 on link 45136	FSK 200/1000	(AB)
M42d	4-10	1110		15626	Russian diplo/intel. Msg 067 on link 36882	FSK 200/1000	(MPJ)
M42d	4-10	1120		13383	Russian diplo/intel. Msg 067 on link 36882	FSK 200/1000	(MPJ)
M42d	5-10	0700	Mon	10539	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	5-10	0710	Mon	8111	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	5-10	0720	Mon	6789	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	5-10	1200	Mon	11171	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	5-10	1210	Mon	9244	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	5-10	1220	Mon	7609	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	6-10	0700	Tue	10539	Russian diplo/intel. Msg 062 on link 45137	FSK 200/1000	(AB)
M42d	6-10	0710	Tue	8111	Russian diplo/intel. Msg 062 on link 45137	FSK 200/1000	(AB)
M42d	6-10	0720	Tue	6789	Russian diplo/intel. Msg 062 on link 45137	FSK 200/1000	(AB)
M42d	6-10	1200	Tue	11171	Russian diplo/intel. Msg 062 on link 45137	FSK 200/1000	(AB)
M42d	6-10	1210	Tue	9244	Russian diplo/intel. Msg 062 on link 45137	FSK 200/1000	(AB)
M42d	6-10	1220	Tue	7609	Russian diplo/intel. Msg 062 on link 45137	FSK 200/1000	(AB)
M42d	6-10	1650	Tue	13424	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/MPJ)
M42d	6-10	1700	Tue	11114	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/MPJ)
M42d	6-10	1710	Tue	9173	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/MPJ)
M42d	7-10	0700	Wed	10539	Russian diplo/intel. Msg 067 on link 45137	FSK 200/1000	(AB)
M42d	7-10	0710	Wed	8111	Russian diplo/intel. Msg 067 on link 45137	FSK 200/1000	(AB)
M42d	7-10	0720	Wed	6789	Russian diplo/intel. Msg 067 on link 45137	FSK 200/1000	(AB)
M42d	7-10	1200	Wed	11171	Russian diplo/intel. Msg 067 on link 45137	FSK 200/1000	(AB)
M42d	7-10	1210	Wed	9244	Russian diplo/intel. Msg 067 on link 45137	FSK 200/1000	(AB)
M42d	7-10	1220	Wed	7609	Russian diplo/intel. Msg 067 on link 45137	FSK 200/1000	(AB)
M42d	8-10	0700		10539	Russian diplo/intel. Msg 070 on link 45136	FSK 200/1000	(AB)
M42d	8-10	0710		8111	Russian diplo/intel. Msg 070 on link 45136	FSK 200/1000	(AB)
M42d	8-10	0720		6789	Russian diplo/intel. Msg 070 on link 45136	FSK 200/1000	(AB)
M42d	8-10	1200		11171	Russian diplo/intel. Msg 070 on link 45136	FSK 200/1000	(AB)
M42d	8-10	1210		9244	Russian diplo/intel. Msg 070 on link 45136	FSK 200/1000	(AB)
M42d	8-10	1220		7609	Russian diplo/intel. Msg 070 on link 45136	FSK 200/1000	(AB)
M42d	8-10	1330		15839	Russian diplo/intel. Msg 047 on link 49237	FSK 200/1000	(AB)
M42d	8-10	1340		13374	Russian diplo/intel. Msg 047 on link 49237	FSK 200/1000	(AB)
M42d	8-10	1350		11106	Russian diplo/intel. Msg 047 on link 49237	FSK 200/1000	(AB)
M42d	9-10	0700	Fri	10539	Russian diplo/intel. Msg 167 on link 45136	FSK 200/1000	(AB)
M42d	9-10	0710	Fri	8111	Russian diplo/intel. Msg 167 on link 45136	FSK 200/1000	(AB)
M42d	9-10	0720	Fri	6789	Russian diplo/intel. Msg 167 on link 45136	FSK 200/1000	(AB)
M42d	10-10	0910	Sat	16266	Russian diplo/intel. Msg 190 on link 45057	FSK 200/1000	(AB)
M42d	10-10	0920	Sat	14484	Russian diplo/intel. Msg 190 on link 45057	FSK 200/1000	(AB)
M42d	10-10	1100	Sat	17421	Russian diplo/intel. Msg 070 on link 36882	FSK 200/1000	(AB)
M42d	10-10	1110	Sat	15626	Russian diplo/intel. Msg 070 on link 36882	FSK 200/1000	(AB)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrlb
M42d	10-10	1120	Sat	13383	Russian diplo/intel. Msg 070 on link 36882	FSK 200/1000	(AB)
M42d	11-10	0810		16315	Russian diplo/intel. Msg 047 on link 45114	FSK 200/1000	(AB)
M42d	11-10	0830		14431	Russian diplo/intel. Msg 047 on link 45114	FSK 200/1000	(AB)
M42d	11-10	1530		14857	Russian diplo/intel. Msg 130 on link 20501	FSK 200/1000	(AB)
M42d	11-10	1540		12182	Russian diplo/intel. Msg 130 on link 20501	FSK 200/1000	(AB)
M42d	11-10	1550		10271	Russian diplo/intel. Msg 130 on link 20501	FSK 200/1000	(AB)
M42d	12-10	0700	Mon	10539	Russian diplo/intel. Msg 075 on link 45136	FSK 200/1000	(AB)
M42d	12-10	0710	Mon	8111	Russian diplo/intel. Msg 075 on link 45136	FSK 200/1000	(AB)
M42d	12-10	0720	Mon	6789	Russian diplo/intel. Msg 075 on link 45136	FSK 200/1000	(AB)
M42d	12-10	1200	Mon	11171	Russian diplo/intel. Msg 075 on link 45136	FSK 200/1000	(AB)
M42d	12-10	1210	Mon	9244	Russian diplo/intel. Msg 075 on link 45136	FSK 200/1000	(AB)
M42d	12-10	1220	Mon	7609	Russian diplo/intel. Msg 075 on link 45136	FSK 200/1000	(AB)
M42d	13-10	0700	Tue	10539	Russian diplo/intel. Msg 077 on link 45137	FSK 200/1000	(AB)
M42d	13-10	0710	Tue	8111	Russian diplo/intel. Msg 077 on link 45137	FSK 200/1000	(AB)
M42d	13-10	0720	Tue	6789	Russian diplo/intel. Msg 077 on link 45137	FSK 200/1000	(AB)
M42d	13-10	1200	Tue	11171	Russian diplo/intel. Msg 077 on link 45137	FSK 200/1000	(AB)
M42d	13-10	1210	Tue	9244	Russian diplo/intel. Msg 077 on link 45137	FSK 200/1000	(AB/MPJ)
M42d	13-10	1220	Tue	7609	Russian diplo/intel. Msg 077 on link 45137	FSK 200/1000	(AB)
M42d	13-10	1650	Tue	13424	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/MPJ)
M42d	13-10	1700	Tue	11114	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/MPJ)
M42d	13-10	1710	Tue	9173	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/MPJ)
M42d	14-10	0810	Wed	16229	Russian diplo/intel. Msg 077 on link 45075	FSK 200/1000	(AB)
M42d	14-10	0820	Wed	14627	Russian diplo/intel. Msg 077 on link 45075	FSK 200/1000	(AB)
M42d	14-10	0915	Wed	19537	Russian diplo/intel. Msg 002 on link 20492	FSK 200/1000	(AB)
M42d	14-10	0925	Wed	17421	Russian diplo/intel. Msg 002 on link 20492	FSK 200/1000	(AB)
M42d	14-10	0935	Wed	15894	Russian diplo/intel. Msg 002 on link 20492	FSK 200/1000	(AB)
M42d	15-10	0700		10539	Russian diplo/intel. Msg 085 on link 45136	FSK 200/1000	(AB)
M42d	15-10	0710		8111	Russian diplo/intel. Msg 085 on link 45136	FSK 200/1000	(AB)
M42d	15-10	0720		6789	Russian diplo/intel. Msg 085 on link 45136	FSK 200/1000	(AB)
M42d	15-10	0810		16119	Russian diplo/intel.	FSK 200/1000	(AB)
M42d	15-10	1200		11171	Russian diplo/intel. Msg 085 on link 45136	FSK 200/1000	(AB)
M42d	15-10	1210		9244	Russian diplo/intel. Msg 085 on link 45136	FSK 200/1000	(AB)
M42d	15-10	1220		7609	Russian diplo/intel. Msg 085 on link 45137	FSK 200/1000	(AB)
M42d	15-10	1330		15839	Russian diplo/intel. Msg 165 on link 49237	FSK 200/1000	(AB)
M42d	15-10	1340		13374	Russian diplo/intel. Msg 165 on link 49237	FSK 200/1000	(AB)
M42d	15-10	1350		11106	Russian diplo/intel. Msg 165 on link 49237	FSK 200/1000	(AB)
M42d	16-10	0700	Fri	10539	Russian diplo/intel. Msg 227 on link 45137	FSK 200/1000	(AB)
M42d	16-10	0710	Fri	8111	Russian diplo/intel. Msg 227 on link 45137	FSK 200/1000	(AB)
M42d	16-10	0720	Fri	6789	Russian diplo/intel. Msg 227 on link 45137	FSK 200/1000	(AB)
M42d	17-10	1100	Sat	17421	Russian diplo/intel. Msg 072 on link 36882	FSK 200/1000	(AB)
M42d	17-10	1110	Sat	15626	Russian diplo/intel. Msg 072 on link 36882	FSK 200/1000	(AB)
M42d	17-10	1120	Sat	13383	Russian diplo/intel. Msg 072 on link 36882	FSK 200/1000	(AB)
M42d	17-10	1500	Sat	22961	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	17-10	1510	Sat	20459	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	17-10	1520	Sat	18354	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	18-10	1100		17421	Russian diplo/intel. Msg 072 on link 36882	FSK 200/1000	(AB)
M42d	18-10	1110		15626	Russian diplo/intel. Msg 072 on link 36882	FSK 200/1000	(AB)
M42d	18-10	1120		13383	Russian diplo/intel. Msg 072 on link 36882	FSK 200/1000	(AB)
M42d	18-10	1530		14857	Russian diplo/intel. Msg 130 on link 20501	FSK 200/1000	(AB)
M42d	18-10	1540		12182	Russian diplo/intel. Msg 130 on link 20501	FSK 200/1000	(AB)
M42d	18-10	1550		10271	Russian diplo/intel. Msg 130 on link 20501	FSK 200/1000	(AB)
M42d	19-10	0420	Mon	5461	Russian diplo/intel. Msg 002 on link 45079	FSK 200/1000	(AB)
M42d	19-10	0700	Mon	10539	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	19-10	0710	Mon	8111	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	19-10	0720	Mon	6789	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	19-10	1200	Mon	11171	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	19-10	1210	Mon	9244	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	19-10	1220	Mon	7609	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	20-10	0700	Tue	10539	Russian diplo/intel. Msg 092 on link 45136	FSK 200/1000	(AB)
M42d	20-10	0710	Tue	8111	Russian diplo/intel. Msg 092 on link 45136	FSK 200/1000	(AB)
M42d	20-10	0720	Tue	6789	Russian diplo/intel. Msg 092 on link 45136	FSK 200/1000	(AB)
M42d	20-10	1200	Tue	11171	Russian diplo/intel. Msg 092 on link 45136	FSK 200/1000	(AB)

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M42d	20-10	1210	Tue	9244	Russian diplo/intel. Msg 092 on link 45136	FSK 200/1000	(AB)
M42d	20-10	1220	Tue	7609	Russian diplo/intel. Msg 092 on link 45136	FSK 200/1000	(AB)
M42d	20-10	1400	Tue	20609	Russian diplo/intel. Msg 097 on link 32799	FSK 200/1000	(AB)
M42d	20-10	1410	Tue	18581	Russian diplo/intel. Msg 097 on link 32799	FSK 200/1000	(AB)
M42d	20-10	1420	Tue	16324	Russian diplo/intel. Msg 097 on link 32799	FSK 200/1000	(AB)
M42d	20-10	1650	Tue	13424	Russian diplo/intel. Msg 145 on link 20501	FSK 200/1000	(AB)
M42d	20-10	1700	Tue	11114	Russian diplo/intel. Msg 145 on link 20501	FSK 200/1000	(AB)
M42d	20-10	1710	Tue	9173	Russian diplo/intel. Msg 145 on link 20501	FSK 200/1000	(AB)
M42d	21-10	0700	Wed	10539	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	21-10	0710	Wed	8111	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	21-10	0720	Wed	6789	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	21-10	0800	Wed	18544	Russian diplo/intel. Msg 057 on link 45075	FSK 200/1000	(AB)
M42d	21-10	0810	Wed	16229	Russian diplo/intel. Msg 057 on link 45075	FSK 200/1000	(AB)
M42d	21-10	0820	Wed	14627	Russian diplo/intel. Msg 057 on link 45075	FSK 200/1000	(AB)
M42d	21-10	1020	Wed	18592	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
M42d	21-10	1200	Wed	11171	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	21-10	1210	Wed	9244	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	21-10	1220	Wed	7609	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	21-10	1400	Wed	20609	Russian diplo/intel. Msg 097 on link 32799	FSK 200/1000	(AB)
M42d	21-10	1410	Wed	18581	Russian diplo/intel. Msg 097 on link 32799	FSK 200/1000	(AB)
M42d	21-10	1420	Wed	16324	Russian diplo/intel. Msg 097 on link 32799	FSK 200/1000	(AB)
M42d	21-10	1650	Wed	13424	Russian diplo/intel. Msg 145 on link 20501	FSK 200/1000	(AB)
M42d	21-10	1700	Wed	11114	Russian diplo/intel. Msg 145 on link 20501	FSK 200/1000	(AB)
M42d	21-10	1710	Wed	9173	Russian diplo/intel. Msg 145 on link 20501	FSK 200/1000	(AB)
M42d	22-10	0700		10539	Russian diplo/intel. Msg 100 on link 45136	FSK 200/1000	(AB)
M42d	22-10	0710		8111	Russian diplo/intel. Msg 100 on link 45136	FSK 200/1000	(AB)
M42d	22-10	0720		6789	Russian diplo/intel. Msg 100 on link 45136	FSK 200/1000	(AB)
M42d	22-10	1200		11171	Russian diplo/intel. Msg 100 on link 45136	FSK 200/1000	(AB)
M42d	22-10	1210		9244	Russian diplo/intel. Msg 100 on link 45136	FSK 200/1000	(AB)
M42d	22-10	1220		7609	Russian diplo/intel. Msg 100 on link 45136	FSK 200/1000	(AB)
M42d	22-10	1330		15839	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	22-10	1340		13374	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	22-10	1350		11106	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	23-10	0700	Fri	10539	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	23-10	0710	Fri	8111	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	23-10	0720	Fri	6789	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	24-10	0800	Sat	18039	Russian diplo/intel. Msg 050 on link 45115	FSK 200/1000	(AB)
M42d	24-10	0810	Sat	16315	Russian diplo/intel. Msg 050 on link 45115	FSK 200/1000	(AB)
M42d	24-10	0820	Sat	14431	Russian diplo/intel. Msg 050 on link 45115	FSK 200/1000	(AB)
M42d	24-10	1100	Sat	17421	Russian diplo/intel. Msg 075 on link 36882	FSK 200/1000	(AB)
M42d	24-10	1110	Sat	15626	Russian diplo/intel. Msg 075 on link 36882	FSK 200/1000	(AB)
M42d	24-10	1120	Sat	13383	Russian diplo/intel. Msg 075 on link 36882	FSK 200/1000	(AB)
M42d	24-10	1500	Sat	22961	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	24-10	1510	Sat	20459	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	24-10	1520	Sat	18354	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	25-10	0800		18039	Russian diplo/intel. Msg 050 on link 45115	FSK 200/1000	(AB)
M42d	25-10	0810		16315	Russian diplo/intel. Msg 050 on link 45115	FSK 200/1000	(AB)
M42d	25-10	0820		14431	Russian diplo/intel. Msg 050 on link 45115	FSK 200/1000	(AB)
M42d	25-10	0910		16266	Russian diplo/intel. Msg 190 on link 45057	FSK 200/1000	(AB)
M42d	25-10	0910		18917	Russian diplo/intel. Msg 190 on link 45057	FSK 200/1000	(AB)
M42d	25-10	0920		14484	Russian diplo/intel. Msg 190 on link 45057	FSK 200/1000	(AB)
M42d	25-10	1530		14857	Russian diplo/intel. Msg 132 on link 20501	FSK 200/1000	(AB)
M42d	25-10	1540		12182	Russian diplo/intel. Msg 132 on link 20501	FSK 200/1000	(AB)
M42d	25-10	1550		10271	Russian diplo/intel. Msg 132 on link 20501	FSK 200/1000	(AB)
M42d	26-10	0700	Mon	10539	Russian diplo/intel. Msg 105 on link 45136	FSK 200/1000	(AB)
M42d	26-10	0710	Mon	8111	Russian diplo/intel. Msg 105 on link 45136	FSK 200/1000	(AB)
M42d	26-10	0720	Mon	6789	Russian diplo/intel. Msg 105 on link 45136	FSK 200/1000	(AB)
M42d	26-10	1200	Mon	11171	Russian diplo/intel. Msg 105 on link 45136	FSK 200/1000	(AB)
M42d	26-10	1210	Mon	9244	Russian diplo/intel. Msg 105 on link 45136	FSK 200/1000	(AB)
M42d	26-10	1220	Mon	7609	Russian diplo/intel. Msg 105 on link 45136	FSK 200/1000	(AB)
M42d	27-10	0700	Tue	10539	Russian diplo/intel. Msg 107 on link 45136	FSK 200/1000	(AB)
M42d	27-10	0710	Tue	8111	Russian diplo/intel. Msg 107 on link 45136	FSK 200/1000	(AB)



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M42d	27-10	0720	Tue	6789	Russian diplo/intel. Msg 107 on link 45136	FSK 200/1000	(AB)
M42d	27-10	1200	Tue	11171	Russian diplo/intel. Msg 107 on link 45136	FSK 200/1000	(AB)
M42d	27-10	1210	Tue	9244	Russian diplo/intel. Msg 107 on link 45136	FSK 200/1000	(AB)
M42d	27-10	1220	Tue	7609	Russian diplo/intel. Msg 107 on link 45136	FSK 200/1000	(AB)
M42d	27-10	1400	Tue	20609	Russian diplo/intel. Msg 100 on link 32799	FSK 200/1000	(AB)
M42d	27-10	1410	Tue	18581	Russian diplo/intel. Msg 100 on link 32799	FSK 200/1000	(AB)
M42d	27-10	1420	Tue	16324	Russian diplo/intel. Msg 100 on link 32799	FSK 200/1000	(AB)
M42d	27-10	1650	Tue	13424	Russian diplo/intel. Msg 147 on link 20501	FSK 200/1000	(AB)
M42d	27-10	1700	Tue	11114	Russian diplo/intel. Msg 147 on link 20501	FSK 200/1000	(AB)
M42d	27-10	1710	Tue	9173	Russian diplo/intel. Msg 147 on link 20501	FSK 200/1000	(AB)
M42d	28-10	0600	Wed	19266	Russian diplo/intel. Msg 060 on link 32816	FSK 200/1000	(AB)
M42d	28-10	0610	Wed	17546	Russian diplo/intel. Msg 060 on link 32816	FSK 200/1000	(AB)
M42d	28-10	0620	Wed	15777	Russian diplo/intel. Msg 060 on link 32816	FSK 200/1000	(AB)
M42d	28-10	0700	Wed	10539	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB)
M42d	28-10	0710	Wed	8111	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB)
M42d	28-10	0720	Wed	6789	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB)
M42d	28-10	0800	Wed	20171	Russian diplo/intel. Msg 227 on link 16404	FSK 200/1000	(AB)
M42d	28-10	0800	Wed	18544	Russian diplo/intel. Msg 122 on link 45075	FSK 200/1000	(AB)
M42d	28-10	0810	Wed	16229	Russian diplo/intel. Msg 122 on link 45075	FSK 200/1000	(AB)
M42d	28-10	0810	Wed	18204	Russian diplo/intel. Msg 227 on link 16404	FSK 200/1000	(AB)
M42d	28-10	0820	Wed	16119	Russian diplo/intel. Msg 227 on link 16404	FSK 200/1000	(AB)
M42d	28-10	0820	Wed	14627	Russian diplo/intel. Msg 122 on link 45075	FSK 200/1000	(AB)
M42d	28-10	0915	Wed	22861	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB/CA2)
M42d	28-10	0915	Wed	19537	Russian diplo/intel. Msg 002 on link 20492	FSK 200/1000	(AB)
M42d	28-10	0925	Wed	20672	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB/CA2)
M42d	28-10	0925	Wed	17421	Russian diplo/intel. Msg 002 on link 20492	FSK 200/1000	(AB)
M42d	28-10	0935	Wed	18592	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB/CA2)
M42d	28-10	0935	Wed	15894	Russian diplo/intel. Msg 002 on link 20492	FSK 200/1000	(AB)
M42d	28-10	1200	Wed	11171	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB)
M42d	28-10	1210	Wed	9244	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB/MPJ)
M42d	28-10	1220	Wed	7609	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB/MPJ)
M42d	29-10	0600		19266	Russian diplo/intel. Msg 060 on link 32816	FSK 200/1000	(AB)
M42d	29-10	0610		17546	Russian diplo/intel. Msg 060 on link 32816	FSK 200/1000	(AB)
M42d	29-10	0620		15777	Russian diplo/intel. Msg 060 on link 32816	FSK 200/1000	(AB)
M42d	29-10	0700		10539	Russian diplo/intel. Msg 115 on link 45136	FSK 200/1000	(AB)
M42d	29-10	0710		8111	Russian diplo/intel. Msg 115 on link 45136	FSK 200/1000	(AB)
M42d	29-10	0720		6789	Russian diplo/intel. Msg 115 on link 45136	FSK 200/1000	(AB)
M42d	29-10	0800		20171	Russian diplo/intel. Msg 227 on link 16404	FSK 200/1000	(AB)
M42d	29-10	0810		18204	Russian diplo/intel. Msg 227 on link 16404	FSK 200/1000	(AB)
M42d	29-10	0820		16119	Russian diplo/intel. Msg 227 on link 16404	FSK 200/1000	(AB)
M42d	29-10	1200		11171	Russian diplo/intel. Msg 115 on link 45136	FSK 200/1000	(AB)
M42d	29-10	1210		9244	Russian diplo/intel. Msg 115 on link 45136	FSK 200/1000	(AB)
M42d	29-10	1220		7609	Russian diplo/intel. Msg 115 on link 45136	FSK 200/1000	(AB)
M42d	29-10	1330		15839	Russian diplo/intel. Msg 127 on link 49237	FSK 200/1000	(AB/F5JBR)
M42d	29-10	1330		13374	Russian diplo/intel. Msg 127 on link 49237	FSK 200/1000	(F5JBR)
M42d	30-10	0700	Fri	10539	Russian diplo/intel. Msg 102 on link 45137	FSK 200/1000	(AB)
M42d	30-10	0710	Fri	8111	Russian diplo/intel. Msg 102 on link 45137	FSK 200/1000	(AB)
M42d	30-10	0720	Fri	6789	Russian diplo/intel. Msg 102 on link 45137	FSK 200/1000	(AB)
M42d	31-10	1100	Sat	17421	Russian diplo/intel. Msg 077 on link 36882	FSK 200/1000	(AB)
M42d	31-10	1110	Sat	15626	Russian diplo/intel. Msg 077 on link 36882	FSK 200/1000	(AB)
M42d	31-10	1120	Sat	13383	Russian diplo/intel. Msg 077 on link 36882	FSK 200/1000	(AB)
M42d	31-10	1520	Sat	18354	Russian diplo/intel. Msg 057 on link 32821	FSK 200/1000	(AB)
M51a	9-10	1631	Fri	6825	FAV22 slow morse training	CW	(AB)
M51a	9-10	1930	Fri	3881	FAV22: CSTEI FaviPres/Vernon 1930 CW Mixed FGs, LGs and punctuation	CW	(MPJ)
M51a	10-10	1103	Sat	6825	i.p. 5LGs	CW	(AB)
M51a	13-10	1912	Tue	3748.5	FAV22 5LGs and 5FGs	CW	(CA2)
M51a	28-10	1241	Wed	6825	5LGs ... la vitesse des textes en clair est l'úgprement superieure Ó la vitesse an- noncÚe etc	CW	(MPJ)
M51a	28-10	2018	Wed	4465.7	Looped FAV22 texts	CW	(Danix)
M51a	29-10	0509		4465.5	FAV22 5LG, FGs and punct.	CW	(CA2)
M51a	29-10	1457		6825	FAV22 5LG, FGs and punct.	CW	(MPJ)
M51a	30-10	1232	Fri	6825	VVV de FAV22 QLH 3881/6825 kHz //3881 kHz	CW	(AB)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M51a	30-10	1232	Fri	3881	VVV de FAV22 QLH 3881/6825 kHz //6825 kHz	CW	(AB)
M89	1-10	0031	Thu	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	1-10	0034	Thu	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	1-10	0742	Thu	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	1-10	0743	Thu	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	1-10	0744	Thu	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	1-10	0744	Thu	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	1-10	1002	Thu	6793	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	1-10	1106	Thu	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	1-10	1106	Thu	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	1-10	1111	Thu	3777	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	1-10	1111	Thu	6793	V M8JF (x3) DE RIS9 (x2) //4532 and 3777	CW	(JPL)
M89	1-10	1111	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3777 and 6793	CW	(JPL)
M89	1-10	1114	Thu	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	1-10	1116	Thu	7553	i.p. QSL 1915 K. R HR 7G GA K (see N&O 217)	CW	(JPL)
M89	1-10	1116	Thu	5555	i.p. 05 05 05 IIII III R AR VVV 50 4475T TTUU 1 IIIES 643 624NE	CW	(JPL)
M89	1-10	1120	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	1-10	1120	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	1-10	1202	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	1-10	1432	Thu	3330	i.p. UGT NR 01841/0535/2300/23.R/931 AR	CW	(JPL)
M89	1-10	1433	Thu	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	1-10	1436	Thu	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	1-10	1437	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	1-10	1437	Thu	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	1-10	1828	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	1-10	1829	Thu	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	1-10	1830	Thu	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	1-10	1831	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	1-10	1831	Thu	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	1-10	1832	Thu	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	1-10	1833	Thu	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	1-10	2056	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	1-10	2057	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	1-10	2057	Thu	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	1-10	2058	Thu	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	1-10	2059	Thu	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	1-10	2103	Thu	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	1-10	2112	Thu	3818	V U2MD (x3) DE 3PWG (x2)	CW	(JPL)
M89	1-10	2121	Thu	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	1-10	2130	Thu	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	2-10	0152	Fri	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	2-10	0152	Fri	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	2-10	0211	Fri	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	2-10	1009	Fri	7554	V YZD1 DE IDJM (see N&O 217)	CW	(JPL)
M89	2-10	1051	Fri	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	2-10	1051	Fri	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	2-10	1052	Fri	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	2-10	1109	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	2-10	1430	Fri	6565	i.p. 7T4N 4A67 DUAN 5A6D 73NU 5D36 AR QSL ? HR WK NR 1	CW	(JPL)
M89	2-10	1440	Fri	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	2-10	1442	Fri	5566	i.p. 54D5 473U 7D36 DAT4 NA7N 47U3 AR AR K R 7G GA K	CW	(JPL)
M89	2-10	1453	Fri	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	2-10	1653	Fri	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	2-10	1655	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	2-10	1657	Fri	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	2-10	1658	Fri	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	2-10	1658	Fri	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	2-10	1700	Fri	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	2-10	1700	Fri	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	2-10	1705	Fri	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	2-10	1736	Fri	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	2-10	1739	Fri	4532	i.p. /1585/10/03/0210/596/A/58/97 AR (see N&O 217)	CW	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M89	2-10	2041	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	2-10	2042	Fri	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	2-10	2043	Fri	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	2-10	2043	Fri	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	2-10	2045	Fri	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	2-10	2045	Fri	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	2-10	2047	Fri	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	2-10	2312	Fri	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	2-10	2312	Fri	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	2-10	2315	Fri	8060	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	2-10	2320	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	2-10	2320	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	3-10	0212	Sat	10180	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3-10	0813	Sat	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	3-10	0813	Sat	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	3-10	0816	Sat	8110	i.p. VV UGT COMM BT 2674/1645/Z46/8398 AR	CW	(JPL)
M89	3-10	0819	Sat	8060	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	3-10	0820	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	3-10	0820	Sat	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	3-10	0826	Sat	10180	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3-10	0836	Sat	10180	i.p. NR 012 1630 RMKS 9427 TO 9968/9997 = COMM/1700/XZ758/83/9425/9968 AR QSL ? HR WK NR 300	CW	(JPL)
M89	3-10	1654	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3-10	1656	Sat	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3-10	1656	Sat	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3-10	1657	Sat	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3-10	1657	Sat	4532	V M8JF (x3) DE RIS9 (x2) //3821	CW	(JPL)
M89	3-10	1658	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3-10	1658	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	3-10	1700	Sat	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	3-10	1700	Sat	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	3-10	1703	Sat	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	3-10	1720	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3-10	1720	Sat	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	3-10	1723	Sat	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3-10	1934	Sat	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3-10	2130	Sat	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	3-10	2130	Sat	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	3-10	2131	Sat	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3-10	2132	Sat	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3-10	2132	Sat	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3-10	2133	Sat	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3-10	2133	Sat	4532	V M8JF (x3) DE RIS9 (x2) //3821	CW	(JPL)
M89	3-10	2135	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3-10	2136	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3-10	2136	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	4-10	1153	Sun	6761	V U2MD (x3) DE 3PWG (x2)	CW	(JPL)
M89	4-10	1204	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4-10	1212	Sun	3777	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	4-10	1242	Sun	3818	V U2MD (x3) DE 3PWG (x2)	CW	(JPL)
M89	4-10	1453	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4-10	1455	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4-10	1455	Sun	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4-10	1456	Sun	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	4-10	1456	Sun	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	4-10	1458	Sun	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	4-10	1500	Sun	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	4-10	2003	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	4-10	2004	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4-10	2004	Sun	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4-10	2005	Sun	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	4-10	2005	Sun	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M89	4-10	2006	Sun	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	4-10	2257	Sun	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	4-10	2300	Sun	8060	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	5-10	0607	Mon	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	5-10	0620	Mon	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	5-10	0620	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	5-10	1202	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5-10	1204	Mon	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5-10	1204	Mon	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	5-10	1206	Mon	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	5-10	1206	Mon	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	5-10	1208	Mon	8060	V M8JF (x3) DE RIS9 (x2) //3777 4532 and 6793	CW	(JPL)
M89	5-10	1208	Mon	6793	UGT COMM = 328/1155/1585/10/05/2040/594/A/58/97 AR//3777 4532 and 8060	CW	(JPL)
M89	5-10	1208	Mon	3777	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	5-10	1208	Mon	4532	V M8JF (x3) DE RIS9 (x2) //3777 6793 and 8060	CW	(JPL)
M89	5-10	1215	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	5-10	1215	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5-10	1220	Mon	5555	i.p. 4774 7G NR 37 (see N&O 217)	CW	(JPL)
M89	5-10	1659	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5-10	1707	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	5-10	1707	Mon	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5-10	1708	Mon	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	5-10	1708	Mon	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5-10	1709	Mon	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	5-10	1709	Mon	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	5-10	1710	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5-10	1710	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	5-10	1711	Mon	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	5-10	1720	Mon	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	5-10	1720	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	5-10	1730	Mon	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	5-10	2020	Mon	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	5-10	2020	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	5-10	2023	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5-10	2024	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	5-10	2025	Mon	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	5-10	2025	Mon	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5-10	2026	Mon	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	5-10	2026	Mon	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	5-10	2027	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	5-10	2027	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5-10	2028	Mon	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	5-10	2030	Mon	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	5-10	2206	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5-10	2207	Mon	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	5-10	2209	Mon	4532	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	5-10	2209	Mon	8060	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	5-10	2210	Mon	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	5-10	2210	Mon	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	5-10	2211	Mon	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	5-10	2212	Mon	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	5-10	2220	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	5-10	2220	Mon	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	5-10	2230	Mon	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	6-10	0018	Tue	8110	V 7NPE (x3) DE QV5B (x2) //N/H	CW	(JPL)
M89	6-10	0019	Tue	8060	V M8JF (x3) DE RIS9 (x2) //N/H	CW	(JPL)
M89	6-10	0020	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6-10	0020	Tue	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6-10	0023	Tue	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	6-10	0023	Tue	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	6-10	0026	Tue	5555	VV LR VVV RR G57 LRE LR LLG55555 T T 05 05 7G 57 LLG57 LLM7G5	CW	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M89	6-10	1007	Tue	6761	V U2MD (x3) DE 3PWG (x2)	CW	(JPL)
M89	6-10	1020	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6-10	1020	Tue	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6-10	1040	Tue	9131	i.p. NR 186 1830 RMKS 2617 TO 2217 2647 =	CW	(JPL)
M89	6-10	1040	Tue	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	6-10	1048	Tue	4532	V M8JF (x3) DE RIS9 (x2) //3777 6793 and 8060	CW	(JPL)
M89	6-10	1048	Tue	3777	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	6-10	1048	Tue	8060	V M8JF (x3) DE RIS9 (x2) //3777 4532 and 6793	CW	(JPL)
M89	6-10	1048	Tue	6793	V M8JF (x3) DE RIS9 (x2) //3777 4532 and 8060	CW	(JPL)
M89	6-10	1100	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	6-10	1103	Tue	5500	V 7NPE (x3) DE QV5B (x2) //N/H	CW	(JPL)
M89	6-10	1106	Tue	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	6-10	1106	Tue	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6-10	1343	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	6-10	1347	Tue	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6-10	1348	Tue	3777	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	6-10	1350	Tue	3818	V U2MD (x3) DE 3PWG (x2)	CW	(JPL)
M89	6-10	1352	Tue	3821	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	6-10	1354	Tue	7553	i.p. 773 353 4T3 446 4D6 3DU TAU (see N&O 217)	CW	(JPL)
M89	6-10	1419	Tue	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	6-10	1419	Tue	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	6-10	1420	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6-10	1420	Tue	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6-10	1423	Tue	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	6-10	1423	Tue	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	6-10	1424	Tue	5500	V 7NPE (x3) DE QV5B (x2) //N/H	CW	(JPL)
M89	6-10	1430	Tue	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	7-10	0017	Wed	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	7-10	0020	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	7-10	0020	Wed	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	7-10	0920	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	7-10	0920	Wed	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	7-10	1120	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	7-10	1120	Wed	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	7-10	1125	Wed	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	7-10	1125	Wed	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	7-10	1147	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	7-10	1148	Wed	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	7-10	1148	Wed	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	7-10	1149	Wed	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	7-10	1149	Wed	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	7-10	1548	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	7-10	1550	Wed	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7-10	1550	Wed	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7-10	1552	Wed	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	7-10	1552	Wed	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	7-10	1553	Wed	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	7-10	1553	Wed	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	7-10	1554	Wed	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	7-10	1555	Wed	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	7-10	1847	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	7-10	1848	Wed	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	7-10	1849	Wed	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	7-10	1849	Wed	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	7-10	1850	Wed	3818	V U2MD (x3) DE 3PWG (x2) //4476	CW	(JPL)
M89	7-10	1850	Wed	4476	V U2MD (x3) DE 3PWG (x2) //3818	CW	(JPL)
M89	7-10	1851	Wed	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	7-10	1851	Wed	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	7-10	1852	Wed	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	7-10	1853	Wed	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	7-10	1910	Wed	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7-10	1910	Wed	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M89	7-10	2120	Wed	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	7-10	2120	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	7-10	2122	Wed	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	7-10	2339	Wed	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	7-10	2339	Wed	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	7-10	2341	Wed	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7-10	2341	Wed	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7-10	2342	Wed	6760	V U2MD (x3) DE 3PWG (x2)	CW	(JPL)
M89	8-10	0013	Thu	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	8-10	0013	Thu	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	8-10	0147	Thu	8036	i.p. A5U5 STAT UNDT D6AA 7AT ND.7 3T34 T64N 7346 (see N&O 217)	CW	(JPL)
M89	8-10	1101	Thu	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	8-10	1101	Thu	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	8-10	1105	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3777 6793 and 8060	CW	(JPL)
M89	8-10	1105	Thu	6793	V M8JF (x3) DE RIS9 (x2) //3777 4532 and 8060	CW	(JPL)
M89	8-10	1105	Thu	8060	V M8JF (x3) DE RIS9 (x2) //3777 4532 and 6793	CW	(JPL)
M89	8-10	1105	Thu	3777	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	8-10	1109	Thu	5801	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	8-10	1111	Thu	5555	i.p. /CCK CK 28733 1005 2220 RMKS 9973 TO 4593 9DG (see N&O 217)	CW	(JPL)
M89	8-10	1120	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	8-10	1120	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	8-10	1126	Thu	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	8-10	1404	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	8-10	1406	Thu	7602	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	8-10	1407	Thu	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	8-10	1420	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	8-10	1420	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	8-10	1430	Thu	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	8-10	1546	Thu	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	8-10	1546	Thu	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	8-10	2026	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	8-10	2027	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3777 6793 and 8060	CW	(JPL)
M89	8-10	2027	Thu	3777	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	8-10	2029	Thu	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	8-10	2048	Thu	4131	V JKDJ (x3) DE SLBC (x2) /	CW	(JPL)
M89	9-10	0758	Fri	6421	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	9-10	0802	Fri	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	9-10	0802	Fri	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	9-10	0852	Fri	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	9-10	0852	Fri	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	9-10	1104	Fri	5644	V M8JF (x3) DE RIS9 (x2) //3821	CW	(JPL)
M89	9-10	1104	Fri	3821	V M8JF (x3) DE RIS9 (x2) //5644	CW	(JPL)
M89	9-10	1107	Fri	3777	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	9-10	1107	Fri	4532	V M8JF (x3) DE RIS9 (x2) //3777 6793 and 8060	CW	(JPL)
M89	9-10	1107	Fri	6793	V M8JF (x3) DE RIS9 (x2) //3777 4532 and 8060	CW	(JPL)
M89	9-10	1107	Fri	8060	V M8JF (x3) DE RIS9 (x2) //3777 4532 and 6793	CW	(JPL)
M89	9-10	1120	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	9-10	1120	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	9-10	1319	Fri	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	9-10	2013	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	9-10	2015	Fri	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	9-10	2038	Fri	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10-10	0020	Sat	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10-10	0020	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	10-10	0026	Sat	6421	V DKSL (x3) DE ALSK (x2) //N/H	CW	(JPL)
M89	10-10	0918	Sat	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	10-10	0918	Sat	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	10-10	0920	Sat	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10-10	0920	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10-10	0923	Sat	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10-10	0923	Sat	6793	i.p. UGT COMM .../1195/1.85/..10/1750/594/A/53/97 AR //8060	CW	(JPL)
M89	10-10	0926	Sat	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M89	10-10	0931	Sat	5555	i.p. TU34 4444 4444 4444 444E T BT USUA UUUU (see N&O 217)	CW	(JPL)
M89	10-10	1210	Sat	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	10-10	1212	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	10-10	1212	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	10-10	1213	Sat	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	10-10	1213	Sat	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	10-10	1419	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	10-10	1420	Sat	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10-10	1420	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	10-10	1421	Sat	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	10-10	1421	Sat	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	10-10	1425	Sat	7777	VVV CQ (x3) DE 3GY 3GY 3GY MSG (see N&O 217)	CW	(JPL)
M89	11-10	0116	Sun	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	11-10	1016	Sun	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	11-10	1019	Sun	10180	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	11-10	1020	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	11-10	1020	Sun	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	11-10	1022	Sun	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	11-10	1022	Sun	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	11-10	1023	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	11-10	1120	Sun	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	11-10	1120	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	11-10	1157	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	11-10	1158	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	11-10	1158	Sun	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	11-10	1200	Sun	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	11-10	1200	Sun	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	11-10	1202	Sun	4444	JAH3 JAH3 DE CIVW K (see N&O 217)	CW	(JPL)
M89	12-10	0042	Mon	8060	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	12-10	0043	Mon	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	12-10	0056	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	12-10	0056	Mon	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	12-10	0058	Mon	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	12-10	1043	Mon	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	12-10	1043	Mon	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	12-10	1047	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	12-10	1047	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	12-10	1049	Mon	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	12-10	1052	Mon	8888	i.p. 7G 7G .... K. .U34 AR 85AR K. HA. AR 5IRD AR AR7D AR7D	CW	(JPL)
M89	12-10	1058	Mon	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	12-10	1120	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	12-10	1120	Mon	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	12-10	1200	Mon	4853	(i.p. 05 05 05 SRI U SRSITCGA NR 011	CW	(JPL)
M89	12-10	1320	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	12-10	1320	Mon	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	12-10	1622	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	12-10	1622	Mon	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	12-10	2116	Mon	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	13-10	0018	Tue	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	13-10	0018	Tue	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	13-10	0019	Tue	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	13-10	0019	Tue	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	13-10	0020	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	13-10	0020	Tue	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	13-10	0023	Tue	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	13-10	1008	Tue	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	13-10	1008	Tue	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	13-10	1010	Tue	4532	V M8JF (x3) DE RIS9 (x2) //6793 and 8060)	CW	(JPL)
M89	13-10	1010	Tue	6793	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	13-10	1010	Tue	8060	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	13-10	1012	Tue	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	13-10	1013	Tue	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrlb
M89	13-10	1013	Tue	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	13-10	1020	Tue	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	13-10	1020	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	13-10	1023	Tue	5555	VVV 6733	CW	(JPL)
M89	14-10	0900	Wed	12210	VVV RPQV de RPLC HR MSG GA NR 48/CCK38 14 10 1700 RMKS ..673 TO 94989 à.. 54AD U567	CW	(F5JBR)
M89	14-10	1028	Wed	3330	VVV F GA CQ63 010097../0931 UGT COMM =	CW	(JPL)
M89	14-10	1044	Wed	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	14-10	1044	Wed	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	14-10	1045	Wed	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	14-10	1045	Wed	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	14-10	1049	Wed	6793	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	14-10	1049	Wed	4532	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	14-10	1049	Wed	8060	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	14-10	1049	Wed	3777	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	14-10	1120	Wed	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	14-10	1120	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	14-10	1620	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	14-10	1620	Wed	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	14-10	1625	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	14-10	1628	Wed	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	14-10	1630	Wed	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	14-10	1634	Wed	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	14-10	1634	Wed	3642	V DKG6 (x3) DE 3A7D (x2) //760	CW	(JPL)
M89	14-10	1638	Wed	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	14-10	2130	Wed	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	14-10	2133	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	14-10	2134	Wed	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	14-10	2136	Wed	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	14-10	2137	Wed	3777	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	14-10	2137	Wed	6793	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	14-10	2137	Wed	4532	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	14-10	2137	Wed	8060	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	15-10	0720	Thu	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	15-10	0720	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	15-10	0723	Thu	8060	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	15-10	0726	Thu	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	15-10	0726	Thu	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	15-10	1051	Thu	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	15-10	1051	Thu	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	15-10	1100	Thu	8123	i.p. ND63 3TT. NTU4 54NA 4T5N 4TD5 AR K. R QSL 1905 K	CW	(JPL)
M89	15-10	1104	Thu	8124	i.p. QSA 2 K. ... OK K 5. 05 05 05 50 K K	CW	(JPL)
M89	15-10	1109	Thu	8124	Switched from CW to voice traffic. Male operator	CW	(JPL)
M89	15-10	1148	Thu	7531	i.p. 36A5 NAT6 74AT DDN7 7UDA 655D 4645	CW	(JPL)
M89	15-10	1202	Thu	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	15-10	1220	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	15-10	1220	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	15-10	1221	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	15-10	1223	Thu	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	15-10	1223	Thu	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	15-10	1226	Thu	5644	V QDKC (x3) DE XLDF (x2)	CW	(JPL)
M89	15-10	1227	Thu	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	15-10	1227	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	15-10	1700	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	15-10	1702	Thu	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	15-10	1702	Thu	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	15-10	1704	Thu	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	15-10	1704	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	15-10	1708	Thu	4664	VV KXG9 KXG9 DE 1NKP 1NKP K (see N&O 217)	CW	(JPL)
M89	15-10	1734	Thu	5644	V QDKC (x3) DE XLDF (x2)	CW	(JPL)
M89	15-10	1820	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	15-10	1820	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)



Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M89	15-10	1830	Thu	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	15-10	2103	Thu	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	15-10	2105	Thu	3821	V QDKC (x3) DE XLDF (x2) //5644	CW	(JPL)
M89	15-10	2105	Thu	5644	V QDKC (x3) DE XLDF (x2) //3821	CW	(JPL)
M89	16-10	0953	Fri	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	16-10	0955	Fri	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	16-10	0955	Fri	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	16-10	1016	Fri	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	16-10	1016	Fri	9245	i.p. HR NR 3030 K. R NIL GB (Both stations on this freq)	CW	(JPL)
M89	16-10	1016	Fri	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	16-10	1120	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	16-10	1120	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	16-10	1123	Fri	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	16-10	1123	Fri	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	16-10	1125	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	16-10	1126	Fri	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	16-10	1126	Fri	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	16-10	1129	Fri	5555	V BNGC (x3) DE XSV85 (x2). Switched to 8073 for XSV85 1130z sked	CW	(JPL)
M89	16-10	1158	Fri	6709	i.p. U456 5D4N TA6N 3TUA DTNT A436 3674 AR AR K K	CW	(JPL)
M89	16-10	1205	Fri	5555	i.p. 4A4N TUND 6D7U T6T6 AT7A	CW	(JPL)
M89	16-10	1209	Fri	5176	i.p. NR 27/CCK CK 55 21 1016 2000 RMKS CQ = (see N&O 217)	CW	(JPL)
M89	16-10	1218	Fri	5555	i.p. 3A6D 5D3T 7T5U 4N7U 6A4N 3D7U 4N3N	CW	(JPL)
M89	16-10	1443	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	16-10	1457	Fri	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	16-10	1457	Fri	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	16-10	1519	Fri	7602	i.p. AR QSL ? HR WK NR 230V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	16-10	1520	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	16-10	1520	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	16-10	1621	Fri	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	16-10	1719	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	16-10	1720	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	16-10	1720	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	16-10	1721	Fri	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	16-10	1723	Fri	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	16-10	1723	Fri	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	16-10	1724	Fri	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	16-10	1724	Fri	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	16-10	1730	Fri	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	17-10	0804	Sat	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	17-10	0804	Sat	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	17-10	0810	Sat	12210	i.p. 794/C3.2/9440/39/.2/05/331.. =	CW	(JPL)
M89	17-10	0834	Sat	10180	i.p. AR QSL? HR WR NR 230 V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	17-10	1108	Sat	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	17-10	1108	Sat	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	17-10	1110	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	17-10	1111	Sat	4532	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	17-10	1111	Sat	6793	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	17-10	1111	Sat	8060	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	17-10	1114	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	17-10	1114	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	17-10	1120	Sat	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	17-10	1120	Sat	7777	i.p. 180 = VV MSG NR 01 CK 300 51 1017 1800 =	CW	(JPL)
M89	17-10	1120	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	17-10	1700	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	17-10	1703	Sat	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	17-10	1703	Sat	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	17-10	1706	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	17-10	1710	Sat	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	18-10	1450	Sun	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	18-10	1450	Sun	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	18-10	1453	Sun	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	18-10	1453	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M89	18-10	1503	Sun	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	18-10	1504	Sun	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	18-10	1505	Sun	4136	i.p. RPT 20W BT DNDA DNDA AR K RPT SK GB	CW	(JPL)
M89	18-10	1746	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	18-10	1747	Sun	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	18-10	1747	Sun	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	18-10	1749	Sun	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	18-10	1751	Sun	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	19-10	1405	Mon	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	19-10	1407	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	19-10	1408	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	19-10	1408	Mon	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	19-10	1413	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	19-10	1413	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	19-10	1416	Mon	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	19-10	1852	Mon	4137	V 6LUA (x3) DE 3QWG (x2) (see N&O 217)	CW	(JPL)
M89	20-10	1604	Tue	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	20-10	1604	Tue	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	20-10	1606	Tue	3777	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	20-10	1607	Tue	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	20-10	1607	Tue	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	20-10	1612	Tue	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	20-10	1927	Tue	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	20-10	1927	Tue	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	20-10	1937	Tue	6775	V SD2Y DE CV6K (see N&O 217)	CW	(JPL)
M89	20-10	2248	Tue	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	20-10	2248	Tue	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	20-10	2253	Tue	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	20-10	2253	Tue	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	21-10	1034	Wed	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	21-10	1034	Wed	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	21-10	1035	Wed	7554	i.p. 73U7 U4U6 III BT ADT4 AR AR	CW	(JPL)
M89	21-10	1604	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	21-10	1606	Wed	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	21-10	1606	Wed	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	21-10	1608	Wed	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	21-10	1608	Wed	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	21-10	1610	Wed	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	21-10	1610	Wed	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	21-10	1611	Wed	3870	i.p. 365A DAN4 ADN4 D54N 467A A57T 76N3 = 53A4 NT3U 3T4A T6UN NU54 5N37 ...	CW	(JPL)
M89	21-10	1619	Wed	4385	i.p. RPT 14W TO 16W = UTD5 537N 57A4 AR K	CW	(JPL)
M89	21-10	1620	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	21-10	1620	Wed	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	21-10	1626	Wed	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	22-10	1115	Thu	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	22-10	1115	Thu	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	22-10	1118	Thu	8124	i.p. U5T7 6TU6 3NA5 T5T6 5TN4	CW	(JPL)
M89	22-10	1119	Thu	8060	V M8JF (x3) DE RIS9 (x2) //3777 4532 and 6793	CW	(JPL)
M89	22-10	1119	Thu	3777	V M8JF (x3) DE RIS9 (x2) //4532 6793 and 8060	CW	(JPL)
M89	22-10	1119	Thu	6793	V M8JF (x3) DE RIS9 (x2) //3777 4532 and 8060	CW	(JPL)
M89	22-10	1119	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3777 6793 and 8060	CW	(JPL)
M89	22-10	1120	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	22-10	1120	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	22-10	1139	Thu	6976	i.p. 7DU6 U55T 4774 D7.U 6NUA A4NA	CW	(JPL)
M89	22-10	1145	Thu	5708	i.p. 88 1021 0911 RMKS 758 7585 CW TO 7117 CW TO 7.69WX (see N&O 217)	CW	(JPL)
M89	22-10	1304	Thu	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	22-10	1315	Thu	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	22-10	1315	Thu	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	22-10	1319	Thu	8048	i.p. A4UN AD4T 766U 7D7N NST6	CW	(JPL)
M89	23-10	0849	Fri	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	23-10	0849	Fri	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M89	23-10	0852	Fri	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	23-10	0852	Fri	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	23-10	0859	Fri	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	23-10	0859	Fri	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	23-10	1150	Fri	10180	i.p. 9427 = COMM/2030/LZ18767/9437/9424 AR QSL ? HR WK NR 230	CW	(JPL)
M89	23-10	1206	Fri	8065	i.p. 74TA 4T6A 57AU 4443	CW	(JPL)
M89	23-10	1219	Fri	6936	i.p. NR 123 CCK 300 10 33 2.222 W =	CW	(JPL)
M89	23-10	1223	Fri	3340	i.p. 56U4 N...A 6AU3 6T.T T636	CW	(JPL)
M89	23-10	1353	Fri	3330	V MW3D (x3) DE 2SLC (x2) ( Remote tuner Siberia)] JPL FRI	CW	(JPL)
M89	23-10	1547	Fri	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	23-10	1547	Fri	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	23-10	1549	Fri	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	23-10	1551	Fri	4532	V M8JF (x3) DE RIS9 (x2) //N/H	CW	(JPL)
M89	23-10	1816	Fri	3406	i.p. 6354 D6N5 T73U .UN6 7T63 4ADT	CW	(JPL)
M89	23-10	1820	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	23-10	1820	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	23-10	1823	Fri	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	23-10	1823	Fri	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	23-10	1824	Fri	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	23-10	1824	Fri	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	23-10	1825	Fri	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	23-10	1825	Fri	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	23-10	1826	Fri	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	23-10	1843	Fri	4136	i.p. = NTTT T64. DD7T D6.7 5AT5	CW	(JPL)
M89	24-10	0228	Sat	7754	i.p. VVV IHUK VVVV 8VNJ 8VNJ K (see N&O 217)	CW	(JPL)
M89	24-10	0228	Sat	8065	i.p. T5U3 7UT4 547D 6D74 4DN6	CW	(JPL)
M89	24-10	1050	Sat	8060	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	24-10	1050	Sat	4532	V M8JF (x3) DE RIS9 (x2) //3777 and 8060	CW	(JPL)
M89	24-10	1050	Sat	3777	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	24-10	1055	Sat	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	24-10	1057	Sat	5801	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	24-10	1101	Sat	5555	i.p. QSL 1900 K. GB GB NUU55FF 55 5557550 5 VV	CW	(JPL)
M89	24-10	1205	Sat	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	24-10	1207	Sat	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	24-10	1207	Sat	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	24-10	1354	Sat	3330	i.p. /7.8/2225/..07NR.08../. COMM /4L./...25/23/NR09311....	CW	(JPL)
M89	24-10	1401	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	24-10	1401	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	24-10	1730	Sat	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	24-10	1734	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	24-10	1735	Sat	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	24-10	1735	Sat	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	24-10	1736	Sat	4532	V M8JF (x3) DE RIS9 (x2) //3777 and 8060	CW	(JPL)
M89	24-10	1736	Sat	3777	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	24-10	1737	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	24-10	1737	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	24-10	1738	Sat	5555	i.p. VVV VVV V U12CLI DU 1 K. BOZ NIL SK 12 K 12 HR NR SB K	CW	(JPL)
M89	24-10	1756	Sat	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	25-10	0020	Sun	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	25-10	0020	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	25-10	0023	Sun	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	25-10	0822	Sun	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	25-10	0822	Sun	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	25-10	0827	Sun	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	25-10	0830	Sun	8175	i.p. 78/./30/22/COMM/6703/DUTY AR	CW	(JPL)
M89	25-10	0830	Sun	8175	i.p. AR = 6990/14/12/32/COMM/6703/DUTY AR HR NR 1110 VA	CW	(JPL)
M89	25-10	0837	Sun	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	25-10	0837	Sun	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	25-10	0839	Sun	7810	i.p. 473T N3AU NNN3 N5DU TTT6 NU6A N6A6	CW	(JPL)
M89	25-10	0958	Sun	8188	i.p. 6D54 D6D7 A6DA 67U5 A3T3	CW	(JPL)
M89	25-10	1120	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	25-10	1120	Sun	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrlb
M89	25-10	1125	Sun	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	25-10	1127	Sun	8006	i.p. R 10W ? R 10W BT TTAT K (Both stations on this frequency)	CW	(JPL)
M89	25-10	1129	Sun	8031	i.p. 37NU 7T64 A64N 5N.. 4N75 7T4D D5AN U46T	CW	(JPL)
M89	25-10	1139	Sun	8065	i.p. BT TA3T 5DN. D7TN T44U NDD7 NN55 D7U6	CW	(JPL)
M89	25-10	1201	Sun	8096	i.p. CQ CQ GA 7TTT 6TUT ND76 56T4 TU3A A57 AR K (see N&O 217)	CW	(JPL)
M89	25-10	1218	Sun	5801	i.p. 2000 RMKS 2617 TO 2647 2697 9784 9087 9737 ...	CW	(JPL)
M89	25-10	1220	Sun	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	25-10	1220	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	25-10	1226	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	25-10	1226	Sun	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	25-10	1227	Sun	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	25-10	1227	Sun	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	25-10	1230	Sun	8031	i.p. 47TU D54T SADN 4ANT NU34	CW	(JPL)
M89	25-10	1230	Sun	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	25-10	1236	Sun	8088	i.p. 6653 D7T4 6AU5 47DD 3A7D TU3U NN3N	CW	(JPL)
M89	25-10	1430	Sun	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	25-10	1459	Sun	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	25-10	1500	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	25-10	1519		3777	M8JF de RIS9 V	CW	(F5JBR)
M89	25-10	1522		3642	DKG6 de 3A7D V	CW	(F5JBR)
M89	25-10	1938		7602	V DKG6 de 3A7D	CW	(MPJ)
M89	25-10	2031	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	25-10	2032	Sun	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	25-10	2037	Sun	5511	i.p. RPT NR K. R QSL 0437 K. R HR NR 107 HR NR 107 K. R OK	CW	(JPL)
M89	25-10	2050	Sun	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	26-10	0858	Mon	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	26-10	0858	Mon	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	26-10	0859	Mon	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	26-10	0859	Mon	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	26-10	0919	Mon	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	26-10	0920	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	26-10	0920	Mon	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	26-10	0928	Mon	8888	i.p. 47ND 6TAU 357T 34A4 NAD3 N7A6 UN75 645D T56D 67TU	CW	(JPL)
M89	26-10	0930	Mon	6666	V LM89 DE RJRN (see N&O 217)	CW	(JPL)
M89	26-10	0947	Mon	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	26-10	1403	Mon	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	26-10	1406	Mon	7602	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	26-10	1448	Mon	3755	VVV RPQV de RPLC and HR MSG GA NR 94/CCK28 73 10 26 2250 RMKS 9973 TO 9493 4587 4669 9400 9996 4444 6436 = A76A AFG6 54AD	CW	(F5JBR)
M89	26-10	1509	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	26-10	1510	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	26-10	1510	Mon	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	26-10	1512	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	26-10	1512	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	26-10	1513	Mon	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	26-10	1513	Mon	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	26-10	1517	Mon	3330	MW3D de 2SLC V	CW	(F5JBR)
M89	26-10	1520	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	26-10	1520	Mon	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	26-10	1530	Mon	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	26-10	1624	Mon	6775	SD2Y de CV6K HR MSG and GA NR 6923 /10 /22 / 42 / COMM / 6703 / RUTY AR QRU NIL SK	CW	(F5JBR)
M89	26-10	1638	Mon	6775	(i.p. 10/23/22/COMM/N.03/DUTY AR HR SVC GA BT 6955/10/23/12/COMM/6703/DUTY AR	CW	(JPL)
M89	26-10	1654	Mon	4373	i.p. U6A 6UN6 U454 35T5 T73N N6U5 7676 ?? 3T64 USAT UNA3 NU4T	CW	(JPL)
M89	26-10	1705	Mon	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	26-10	1720	Mon	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	26-10	1720	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	27-10	0958	Tue	9131	V DKSL (x3) DE ALSK (x2) //10947	CW	(JPL)
M89	27-10	0958	Tue	10947	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	27-10	0959	Tue	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	27-10	1004	Tue	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M89	27-10	1007	Tue	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	27-10	1007	Tue	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	27-10	1020	Tue	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	27-10	1020	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	27-10	1120	Tue	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	27-10	1120	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	27-10	1142	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	27-10	1144	Tue	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	27-10	1144	Tue	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	27-10	1145	Tue	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	27-10	1145	Tue	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	27-10	1146	Tue	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	27-10	1153	Tue	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	27-10	1510	Tue	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	27-10	1510	Tue	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	27-10	1835	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	27-10	1836	Tue	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	27-10	1836	Tue	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	27-10	1837	Tue	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	27-10	1837	Tue	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	27-10	1840	Tue	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	27-10	1842	Tue	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	27-10	2210	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	27-10	2211	Tue	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	27-10	2212	Tue	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	27-10	2212	Tue	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	27-10	2213	Tue	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	27-10	2213	Tue	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	27-10	2220	Tue	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	27-10	2220	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	27-10	2230	Tue	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	27-10	2231	Tue	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	27-10	2237	Tue	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	27-10	2237	Tue	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	28-10	0020	Wed	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	28-10	0020	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	28-10	0020	Wed	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	28-10	0020	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	28-10	0023	Wed	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	28-10	0023	Wed	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	28-10	0759	Wed	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	28-10	0800	Wed	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	28-10	0800	Wed	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	28-10	0815	Wed	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	28-10	0815	Wed	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	28-10	0923	Wed	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	28-10	1113	Wed	8888	I.P. FF NR 364DN/TX21T3 RMKS 8O818 8174 TO 5496 K (see N&O 217)	CW	(JPL)
M89	28-10	1141	Wed	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	28-10	1141	Wed	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	28-10	1142	Wed	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	28-10	1938	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	28-10	1940	Wed	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	28-10	1941	Wed	5555	I.P. 4AN3 D4TN 4463 36N3 U445 AR A HR U PSB WK	CW	(JPL)
M89	28-10	1945	Wed	6775	(I.P. BT 6905/32/38/29/22/COMM/6703/DUTY AR AR	CW	(JPL)
M89	28-10	1951	Wed	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	29-10	0934	Thu	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	29-10	0934	Thu	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	29-10	0937	Thu	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	29-10	0938	Thu	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	29-10	0938	Thu	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	29-10	1125	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	29-10	1220	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrlb
M89	29-10	1220	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	29-10	1222	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	29-10	1222	Thu	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	29-10	1223	Thu	3330	i.p. 04/1/2052/237NR/0931 AR	CW	(JPL)
M89	29-10	1438	Thu	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	29-10	1446	Thu	6775	V SD2Y DE CV6K (see N&O 217)	CW	(JPL)
M89	29-10	2328	Thu	6775	(i.p. HR SVC GA = 6990/72/20/42/COMM/6703/DUTY (x2)	CW	(JPL)
M89	29-10	2338	Thu	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	29-10	2339	Thu	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	29-10	2343	Thu	6775	V SD2Y DE CV6K HR SVC GA = = 6932/72/26/22/COMM/6703/DUTY AR	CW	(JPL)
M89	29-10	2354	Thu	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	29-10	2355	Thu	10947	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	29-10	2355	Thu	9131	V DKSL (x3) DE ALSK (x2) //10947	CW	(JPL)
M89	30-10	0628	Fri	9131	V DKSL (x3) DE ALSK (x2) //10947	CW	(JPL)
M89	30-10	0628	Fri	10947	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	30-10	1103	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	30-10	1104	Fri	6793	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	30-10	1104	Fri	3777	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	30-10	1104	Fri	4532	V M8JF (x3) DE RIS9 (x2) //3777 and 6793	CW	(JPL)
M89	30-10	1106	Fri	9131	V DKSL (x3) DE ALSK (x2) //10947	CW	(JPL)
M89	30-10	1106	Fri	10947	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	30-10	1109	Fri	5555	i.p. VVVV RRGL GH5N VVV FG5557GM..M U AAU35 AAAUY RNALA567/.A354567/TA.3ST567/AR K	CW	(JPL)
M89	30-10	1120	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	30-10	1120	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	30-10	1220	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	30-10	1220	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	30-10	1230	Fri	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	30-10	1355	Fri	6775	V SD2Y DE CV6K (see N&O 217)	CW	(JPL)
M89	30-10	1408	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	30-10	1412	Fri	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	30-10	1415	Fri	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	30-10	1416	Fri	5197	i.p. 367A 5UAU 433N 6UN. N56N	CW	(JPL)
M89	30-10	1419	Fri	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	30-10	1420	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	30-10	2144	Fri	6775	V SD2Y DE CV6K HR SVC GA BT 6965/73/25/12/COMM/6703/DUTY AR	CW	(JPL)
M89	31-10	2249	Sat	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	31-10	2251	Sat	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	31-10	2251	Sat	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	31-10	2254	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	31-10	2254	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	31-10	2257	Sat	8060	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	31-10	2257	Sat	6793	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	31-10	2257	Sat	4532	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	31-10	2259	Sat	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M90	1-10	0723		4852	5LGs message i.p.	CW	(F5JBR)
M90	6-10	0551	Tue	4133	X4GO X4GO AR = = QTR 0815 AR X4GO X4GO AR X4GO QTC 158 = 150 05 0833 158 = X4GO = TYXKJ ECLTW VEFHM ...	CW	(F5JBR)
M90	6-10	0801	Tue	4852	XVSQ with 8 outstations CQXJ, TSXS, K6ZJ, MXV5, V7Z6, DNSF, ICFV, EHB	CW	(F5JBR)
M90	8-10	0622		4852	Czech military clg and QTCs	USB	(CA2)
M90	8-10	0702		4861	Czech military	USB	(CA2)
M90	9-10	0812	Fri	4133	ASDF ASDF ASDF AR	CW	(F5JBR)
M90	12-10	0622	Mon	4193	YPN3 msg to ITJA 1 10 12 0830 072= ITJA and QTR 0847 and FOR ITJA 652 553 353 955 103 AR	CW	(CA2)
M90	13-10	0801	Tue	5098	XVSQ wkg 4 outstations EGK6, TSXS, K6ZJ, PJP6	CW	(CA2)
M90	15-10	0730		4852	XVSQ wkg DNSF, K6ZJ, MXV5, ICFV. Collective callsign: HR3H	CW	(CA2)
M90	19-10	0601	Mon	4193	WTY5 WTY5 WTY5 AR	CW	(CA2)
M90	19-10	0601	Mon	4193	WTY5 WTY5 WTY5 AR	CW	(CA2)
M90	19-10	0619	Mon	4193	WTY5 QTC 226 = 1 50 19 0820 226 = WTY5 = KXEOY BXMPF 06929 QLUZY ... = J9XE =	CW	(CA2)
M90	19-10	0635	Mon	4193	WTY5 = QTR 0835 WTY5	CW	(CA2)
M90	19-10	0638	Mon	4193	QTC 2 26 = 2 50 19 0838 226 = WTY5 = TYOAY UBHSC 56745 SILCJ RPLNZ 58713 BMQYW TYQVP 92909 ...	CW	(CA2)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
M90	19-10	0653	Mon	4193	WTY5 = FOR WTY5 686 410 310 012 680 AR ù END TRAFFIC	CW	(CA2)
M90	19-10	0745	Mon	4852	XVSQ wkg DNSF, CQXJ, TSXS, ICFV, PJP6, EHBj (see N&O 217)	CW	(CA2)
M90	22-10	0843		5410	NUBM wkg U9PG (Calling, Exchanges QTCs, frequency changes)	CW	(F5JBR)
M90	22-10	0857		5040	NUBM wkg U9PG (Calling, authentication, Exchanges QTCs, etc)	CW	(F5JBR)
M95	1-10	0018	Thu	8073	i.p. 773 357 373 4TA III 4TD NN3 445 3DU (see N&O 217)	CW	(JPL)
M95	1-10	1152	Thu	8073	V BNGC (x3) DE (x2) (see N&O 217)	CW	(JPL)
M95	2-10	1149	Fri	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	3-10	0008	Sat	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	3-10	0021	Sat	8073	V BNGC (x3) DE XSV85 (x2)	CW	(JPL)
M95	5-10	1152	Mon	8073	XSV85	CW	(JPL)
M95	6-10	0004	Tue	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	6-10	1134	Tue	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	7-10	0007	Wed	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	7-10	1135	Wed	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	8-10	0016	Thu	8073	XSV85 i.p. NN3 434 3DT TTA N34 TTA ND4 (see N&O 217)	CW	(JPL)
M95	8-10	1145	Thu	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	9-10	1139	Fri	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	10-10	0008	Sat	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	10-10	1140	Sat	8073	V BNGC (x3) DE XSV85 (x2) (Cont'd)	CW	(JPL)
M95	11-10	1140	Sun	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	12-10	0023	Mon	8073	XSV85 (see N&O 217)	CW	(JPL)
M95	12-10	1137	Mon	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	13-10	0005	Tue	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	13-10	1143	Tue	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	14-10	1017	Wed	7554	i.p. NR 941 CK 75 35 1014 0648 4DA UT3 TA4 3U4 3A4 TT4 ... 7773 353 4T3 446 4D. 4N6 3D3 ZNN SK	CW	(JPL-HK)
M95	14-10	1138	Wed	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	15-10	0004	Thu	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	15-10	0038	Thu	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	16-10	0005	Fri	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	16-10	1141	Fri	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	17-10	1142	Sat	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	22-10	1135		8073	V BNGC (x3) DE XSV85 (x2)	CW	(JPL-Sib)
M95	23-10	1142	Fri	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	25-10	0005	Sun	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	25-10	1151	Sun	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	27-10	0001	Tue	8073	(i.p. 4D6 TU4 773 TU5 773 356 4T3 NN3 445 3DU (see N&O 217)	CW	(JPL)
M95	27-10	1148	Tue	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	28-10	0007	Wed	8073	V BNGC (x3) DE XSV85 (x2) (V BNGC (x3) DE XSV85 (x2) (See N&O 217)	CW	(JPL)
M95	28-10	1136	Wed	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	29-10	0913		7553	V BNEC DE XSV70 (see N&O 217)	CW	(JPL-HK)
M95	29-10	1138	Thu	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	30-10	0007	Fri	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 217)	CW	(JPL)
M95	30-10	1140	Fri	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
MX	1-10	1723		6928	Beacon "V"	CW	(CK)
MX	10-10	1713	Sat	7508.9	Beacon "S"	CW	(AB)
MX	10-10	1713	Sat	7508.8	Beacon "D"	CW	(AB)
MX	10-10	1713	Sat	8497.8	Beacon "L"	CW	(AB)
MX	11-10	1511		16331.9	Beacon S, Severomorsk	CW	(MPJ)
MX	11-10	1610		16331.7	Beacon D, Odessa/Sevastopol	CW	(MPJ)
MX	16-10	2020	Fri	6928	Beacon V	CW	(AB)
MX	17-10	1335	Sat	10871.9	Beacon S, Severomorsk	CW	(MPJ)
MX	17-10	1337	Sat	10872	Beacon C, Moscow	CW	(MPJ)
MX	18-10	0110	Sun	7508	Beacon D, Sevoromorsk	CW	(HFD)
MX	19-10	1845	Mon	6928	Beacon V	CW	(AB)
MX	19-10	1846	Mon	8497.8	Beacon L	CW	(AB)
MX	19-10	1847	Mon	7508.7	Beacon D, Sevastopol	CW	(AB)
MX	19-10	1848	Mon	5154	Beacon C, Moscow	CW	(AB)
MX	19-10	1848	Mon	5153.9	Beacon S, Sevoromorsk	CW	(AB)
MX	19-10	1850	Mon	5156.8	Beacon L	CW	(AB)
MX	19-10	1852	Mon	8494.9	Beacon S, Sevoromorsk	CW	(AB)
MX	19-10	1852	Mon	8494.7	Beacon D, Sevastopol	CW	(AB)

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MX	19-10	1854	Mon	10871.7	Beacon D, Sevastopol	CW	(AB)
MX	19-10	1854	Mon	10872	Beacon C, Moscow	CW	(AB)
MX	19-10	1854	Mon	10871.9	Beacon S, Sevoromorsk	CW	(AB)
MX	19-10	1921	Mon	3658	Beacon V	CW	(AB)
MX	20-10	2150	Tue	6928	Beacon V	CW	(AB)
MX	20-10	2150	Tue	8497.8	Beacon L	CW	(AB)
MX	20-10	2152	Tue	7508.9	Beacon S, Sevoromorsk	CW	(AB)
MX	20-10	2152	Tue	7508.7	Beacon D, Sevastopol	CW	(AB)
MX	20-10	2153	Tue	3658	Beacon V	CW	(AB)
MX	21-10	0710	Wed	13528.4	Beacon M, Magadan	CW	(AAI)
MX	21-10	1836	Wed	5153.9	Beacon C, Moscow	CW	(Topol)
MX	23-10	1223	Fri	5154.4	Beacon M, Magadan	CW	(JPL-Sib)
MX	26-10	2320	Mon	3658	Beacon V	CW	(Owl)
MX	26-10	2325	Mon	7091.5	Beacon V	CW	(Owl)
MX	26-10	2340	Mon	3168.4	Beacon L	CW	(Owl)
MX	27-10	1737	Tue	3658	Beacon V	CW	(AB)
MX	27-10	1738	Tue	3168.4	Beacon L	CW	(AB)
MX	27-10	1743	Tue	5156.8	Beacon L	CW	(AB)
MX	27-10	1744	Tue	8497.8	Beacon L	CW	(AB)
MX	27-10	1843	Tue	7091.5	Beacon V	CW	(AB)
MX	30-10	0830	Fri	8821	Beacon S	CW	(MOR)
MX	30-10	1728	Fri	8497.8	Beacon L, Skt Peterburg	CW	(MPJ)
POL	1-10	0630		10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	1-10	0635		10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	1-10	0800		6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	1-10	0805		6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	1-10	1000		15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	1-10	1005		15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	1-10	1305		8803	0437 88888 88888 51466 03658 25953 ... 42249 89848 97321 88888 88888 00041 FSK 100/625	(AB)	
POL	1-10	1310		8803	0437 88888 88888 51466 03658 25953 ... 42249 89848 97321 88888 88888 00041 FSK 100/625	(AB)	
POL	2-10	0655	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	2-10	0700	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	2-10	0815	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	2-10	0820	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	2-10	0900	Fri	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	2-10	0905	Fri	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	4-10	1525		15632	Polish Intel.	FSK 100/625	(AB)
POL	4-10	1530		15632	Polish Intel.	FSK 100/625	(AB)
POL	5-10	0800	Mon	6906	0434 88888 88888 73438 63234 41478 ... 51765 11344 88888 88888 00036 00036 FSK 100/625	(AB)	
POL	5-10	0805	Mon	6906	0434 88888 88888 73438 63234 41478 ... 51765 11344 88888 88888 00036 00036 FSK 100/625	(AB)	
POL	5-10	0815	Mon	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	5-10	0820	Mon	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	
POL	5-10	0845	Mon	9339	0353 88888 88888 54595 03908 32431 ... 05504 03623 57443 88888 88888 00034 FSK 100/625	(AB)	
POL	5-10	0850	Mon	9339	0353 88888 88888 54595 03908 32431 ... 05504 03623 57443 88888 88888 00034 FSK 100/625	(AB)	
POL	6-10	0630	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 FSK 100/625	(AB)	



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POL	6-10	0635	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	6-10	0655	Tue	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	6-10	0700	Tue	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	6-10	0900	Tue	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	6-10	0905	Tue	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	6-10	1005	Tue	9431	0675 88888 88888 71936 05317 88127 ... 66804 84631 05589 88888 88888 00041	FSK 100/625	(AB)
POL	6-10	1010	Tue	9431	0675 88888 88888 71936 05317 88127 ... 66804 84631 05589 88888 88888 00041	FSK 100/625	(AB)
POL	6-10	1245	Tue	14972	Polish Intel. Unreadable msg	FSK 100/625	(AB)
POL	6-10	1250	Tue	14972	Polish Intel. Unreadable msg	FSK 100/625	(AB)
POL	7-10	0845	Wed	9339	0353 88888 88888 54595 03908 32431 ... 05504 03623 57443 88888 88888 00034	FSK 100/625	(AB)
POL	7-10	0850	Wed	9339	0353 88888 88888 54595 03908 32431 ... 05504 03623 57443 88888 88888 00034	FSK 100/625	(AB)
POL	7-10	1245	Wed	14972	Polish Intel. Unreadable msg	FSK 100/625	(AB)
POL	7-10	1250	Wed	14972	Polish Intel. Unreadable msg	FSK 100/625	(AB)
POL	7-10	1305	Wed	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	7-10	1310	Wed	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	8-10	0630		10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	8-10	0635		10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	8-10	0730		14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	8-10	0735		14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	8-10	0800		6906	0434 88888 88888 73438 63234 41478 ... 81236 51765 11344 88888 88888 00036	FSK 100/625	(AB)
POL	8-10	0805		6906	0434 88888 88888 73438 63234 41478 ... 81236 51765 11344 88888 88888 00036	FSK 100/625	(AB)
POL	8-10	1000		15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	8-10	1005		15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	8-10	1305		8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	8-10	1310		8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	9-10	0655	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	9-10	0700	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	9-10	0815	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	9-10	0820	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	9-10	0900	Fri	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	9-10	0905	Fri	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	9-10	1005	Fri	9431	0675 88888 88888 71936 05317 88127 ... 66804 84631 05589 88888 88888 00041	FSK 100/625	(AB)
POL	9-10	1010	Fri	9431	0675 88888 88888 71936 05317 88127 ... 66804 84631 05589 88888 88888 00041	FSK 100/625	(AB)
POL	11-10	1305		8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	11-10	1310		8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)

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POL	12-10	0800	Mon	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	12-10	0805	Mon	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	12-10	0815	Mon	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	12-10	0820	Mon	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	12-10	0845	Mon	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	12-10	0850	Mon	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	12-10	1000	Mon	15905	Polish Intel.	FSK 100/625	(AB)
POL	12-10	1005	Mon	15905	Polish Intel.	FSK 100/625	(AB)
POL	13-10	0630	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	13-10	0635	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	13-10	0655	Tue	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	13-10	0700	Tue	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	13-10	0730	Tue	14753	0433 88888 88888 31158 73507 69339 18899 86176 23155 72602 95501 ... 88888 88888 00040 00040	FSK 100/625	(AB)
POL	13-10	0735	Tue	14753	0433 88888 88888 31158 73507 69339 18899 86176 23155 72602 95501 ... 88888 88888 00040 00040	FSK 100/625	(AB)
POL	13-10	0900	Tue	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	13-10	0905	Tue	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	13-10	1005	Tue	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	13-10	1010	Tue	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	13-10	1245	Tue	14972	0132 0132 0132 0132 0132 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	13-10	1250	Tue	14972	0132 0132 0132 0132 0132 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	14-10	0845	Wed	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	14-10	0850	Wed	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	15-10	0630		10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	15-10	0635		10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	15-10	0730		14753	0433 message	FSK 100/625	(AB)
POL	15-10	0735		14753	0433 message	FSK 100/625	(AB)
POL	15-10	0805		6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	15-10	0810		6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	15-10	1000		15905	Polish Intel.	FSK 100/625	(AB)
POL	15-10	1005		15905	Polish Intel.	FSK 100/625	(AB)
POL	15-10	1305		8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	15-10	1310		8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	16-10	0655	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	16-10	0700	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	16-10	0815	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	16-10	0820	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
POL	16-10	0900	Fri	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	16-10	0905	Fri	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	16-10	1005	Fri	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	16-10	1010	Fri	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	18-10	1305		8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	18-10	1310		8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	19-10	0800	Mon	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	19-10	0805	Mon	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	19-10	0815	Mon	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	19-10	0820	Mon	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	19-10	0845	Mon	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	19-10	0850	Mon	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	19-10	1000	Mon	15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	19-10	1005	Mon	15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	19-10	1305	Mon	5358	0547 88888 88888 44826 01888 94222 ... 74968 51609 62993 88888 88888 00041 FSK 100/625 00041	FSK 100/625	(AB)
POL	19-10	1310	Mon	5358	0547 88888 88888 44826 01888 94222 ... 74968 51609 62993 88888 88888 00041 FSK 100/625 00041	FSK 100/625	(AB)
POL	20-10	0630	Tue	10728	0574 88888 88888 97804 42162 16087 ... 74341 86098 52428 88888 88888 00036 FSK 100/625 00036	FSK 100/625	(AB)
POL	20-10	0635	Tue	10728	0574 88888 88888 97804 42162 16087 ... 74341 86098 52428 88888 88888 00036 FSK 100/625 00036	FSK 100/625	(AB)
POL	20-10	0655	Tue	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	20-10	0700	Tue	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	20-10	0730	Tue	14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	20-10	0735	Tue	14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	20-10	0900	Tue	7371	0554 88888 88888 51805 11075 41545 ... 63096 27231 25291 88888 88888 00038 FSK 100/625 00038	FSK 100/625	(AB)
POL	20-10	0905	Tue	7371	0554 88888 88888 51805 11075 41545 ... 63096 27231 25291 88888 88888 00038 FSK 100/625 00038	FSK 100/625	(AB)
POL	21-10	0530	Wed	16005	0453 0453 0453 0453 0453 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	21-10	0535	Wed	16005	0453 0453 0453 0453 0453 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	21-10	0845	Wed	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	21-10	0850	Wed	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	21-10	1245	Wed	14972	0132 0132 0132 0132 0132 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	21-10	1250	Wed	14972	0132 0132 0132 0132 0132 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	22-10	0630		10728	0574 88888 88888 97804 42162 16087 ... 74341 86098 52428 88888 88888 00036 FSK 100/625 00036	FSK 100/625	(AB)
POL	22-10	0635		10728	0574 88888 88888 97804 42162 16087 ... 74341 86098 52428 88888 88888 00036 FSK 100/625 00036	FSK 100/625	(AB)
POL	22-10	0730		14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	22-10	0735		14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
POL	22-10	0800		6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	22-10	0805		6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	22-10	1000		15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	22-10	1005		15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-10	0530	Fri	16005	0453 0453 0453 0453 0453 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-10	0535	Fri	16005	0453 0453 0453 0453 0453 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-10	0655	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-10	0700	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-10	0815	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-10	0820	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-10	0900	Fri	7371	0554 88888 88888 51805 11075 41545 ... 63096 27231 25291 88888 88888 00038 FSK 100/625	00038	(AB)
POL	23-10	0905	Fri	7371	0554 88888 88888 51805 11075 41545 ... 63096 27231 25291 88888 88888 00038 FSK 100/625	00038	(AB)
POL	23-10	1005	Fri	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-10	1010	Fri	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	25-10	1525		15632	0221 0221 0221 0221 0221 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	25-10	1530		15632	0221 0221 0221 0221 0221 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	26-10	0805	Mon	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	26-10	0810	Mon	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	26-10	0845	Mon	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	26-10	0850	Mon	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	26-10	1000	Mon	15905	0765 88888 88888 69647 37408 84493 ... 56134 86800 68676 88888 88888 00036 FSK 100/625	00036	(AB)
POL	26-10	1005	Mon	15905	0765 88888 88888 69647 37408 84493 ... 56134 86800 68676 88888 88888 00036 FSK 100/625	00036	(AB)
POL	26-10	1305	Mon	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	26-10	1310	Mon	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	26-10	1525	Mon	15632	0221 0221 0221 0221 0221 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	26-10	1530	Mon	15632	0221 0221 0221 0221 0221 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	27-10	0630	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	27-10	0635	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	27-10	0655	Tue	10246	0684 88888 88888 37661 89487 06154 ... 92393 29006 52285 88888 88888 No	FSK 100/625	(AB)
POL	27-10	0700	Tue	10246	0684 88888 88888 37661 89487 06154 ... 92393 29006 52285 88888 88888 No	FSK 100/625	(AB)
POL	27-10	0730	Tue	14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	27-10	0735	Tue	14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	27-10	0900	Tue	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	27-10	0905	Tue	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
POL	27-10	1005	Tue	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	27-10	1010	Tue	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	27-10	1245	Tue	14972	0132 0132 0132 0132 0132 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	27-10	1250	Tue	14972	0132 0132 0132 0132 0132 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-10	0300	Wed	7863	Polish Intel	FSK 100/625	(AB)
POL	28-10	0305	Wed	7863	Polish Intel	FSK 100/625	(AB)
POL	28-10	0845	Wed	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-10	0850	Wed	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-10	1245	Wed	14972	0132 0132 0132 0132 0132 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-10	1250	Wed	14972	0132 0132 0132 0132 0132 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-10	1305	Wed	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-10	1310	Wed	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-10	0630		10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-10	0635		10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-10	0730		14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-10	0735		14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-10	0800		6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-10	0805		6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-10	1000		15905	0765 88888 88888 69647 37408 84493 ... 56134 86800 68676 88888 88888 00036 FSK 100/625	00036	(AB)
POL	29-10	1005		15905	0765 88888 88888 69647 37408 84493 ... 56134 86800 68676 88888 88888 00036 FSK 100/625	00036	(AB)
POL	30-10	0655	Fri	10246	0684 88888 88888 37661 89487 06154 ... 92393 29006 52285 88888 88888 No	FSK 100/625	(AB)
POL	30-10	0700	Fri	10246	0684 88888 88888 37661 89487 06154 ... 92393 29006 52285 88888 88888 No	FSK 100/625	(AB)
POL	30-10	0815	Fri	11092	0446 88888 88888 58659 67920 12099 ... 03026 62883 26303 88888 88888 00035 FSK 100/625	00035	(AB)
POL	30-10	0820	Fri	11092	0446 88888 88888 58659 67920 12099 ... 03026 62883 26303 88888 88888 00035 FSK 100/625	00035	(AB)
POL	30-10	0900	Fri	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	30-10	0905	Fri	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	30-10	1005	Fri	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	30-10	1010	Fri	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
Q26	1-10	1133	Thu	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	2-10	1133	Fri	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	3-10	0001	Sat	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	3-10	0014	Sat	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	6-10	0001	Tue	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	6-10	1131	Tue	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrl
Q26	7-10	0001	Wed	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	7-10	1130	Wed	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8-10	1139	Thu	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	9-10	1130	Fri	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	10-10	0001	Sat	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	10-10	1134	Sat	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	11-10	1132	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	12-10	1132	Mon	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	13-10	0001	Tue	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	13-10	1129	Tue	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	14-10	1129	Wed	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/3000 LSB	(JPL)
Q26	15-10	0001	Thu	8073	XSV85 F BNGC BNGC BNGC DE VSF85 VSF85 HR MSG GA PSE CY \$ (see N&O 2017)	4+4 QPSK 75/3000 LSB	(JPL)
Q26	15-10	1131	Thu	8073	XSV85 F BNGC BNGC BNGC DE VSF85 VSF85 HR MSG GA PSE CY	4+4 QPSK 75/3000 LSB	(JPL)
Q26	16-10	0001	Fri	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
Q26	16-10	1130	Fri	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
Q26	17-10	1131	Sat	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
Q26	23-10	1136	Fri	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
Q26	25-10	0001	Sun	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
Q26	25-10	1131	Sun	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
Q26	26-10	0903	Mon	7553	F BNEC BNEC BNEC DE VSF70 VSF70 HR MSG TO YR PSE NOTE CY NR990 CK142 35 1026 1533 -- 461 203 026 326 314 004 773 354 373 938 ...	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	27-10	1131	Tue	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
Q26	28-10	0005	Wed	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
Q26	28-10	1130	Wed	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
Q26	29-10	0901		7553	XSV70 digital message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	29-10	0911		7553	XSV70 digital message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	29-10	1130	Thu	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
Q26	30-10	0001	Fri	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
Q26	30-10	1130	Fri	8073	XSV85 digital message	4+4 QPSK 75/3000 LSB	(JPL)
RADv	1-10	0701		4220	Russian Air Defense. Aircraft tracking in Russian	USB	(CA2)
RADv	5-10	0541	Mon	4993	Russian Air Defense. Aircraft tracking in Russian	LSB	(CA2)
RADv	5-10	1235	Mon	5176	Russian Air Defense. Aircraft tracking in Russian	USB	(CA2)
RADv	5-10	1717	Mon	5202	Russian Air Defense. Aircraft tracking in Russian	USB	(CA2)
RADv	6-10	0623	Tue	4445	Russian Air Defense. Aircraft tracking in Russian	USB	(CA2)
RADv	6-10	0724	Tue	5134.5	Russian Air Defense. Aircraft tracking in Russian	LSB	(CA2)
RADv	6-10	1225	Tue	5153	Russian Air Defense. Aircraft tracking in Russian	USB	(CA2)
RADv	14-10	0618	Wed	4038	Tracking (Russian Voice)	LSB	(CA2)
RADv	15-10	0814		4863	Tracking (Russian Voice)	USB	(CA2)
RADv	15-10	1620		4380	Tracking (Russian Voice)	USB	(CA2)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrl
RAv	7-10	1333	Wed	11360	Russian Air Force. Korsar wkg 76773 who reports that he is 4 hrs into flight and ops is normal	USB	(AB)
RMv	5-10	0525	Mon	5140	GARAZH88 wkg CIGAL82, KOLOSS21	USB	(CA2)
RMv	5-10	1438	Mon	4483.5	DEBOY73 wkg VEZID26	USB	(CA2)
RMv	6-10	0500	Tue	4740	TABOR39 wkg outstations	USB	(CA2)
RMv	7-10	0719	Wed	4572	Russian Military. HUMAN58 wkg OBLIK55, BALKAN37	USB	(CA2)
RMv	8-10	0608		4850.5	DURBAN37 wkg VIZIR37, DARAN15	USB	(CA2)
RMv	9-10	0517	Fri	4484.5	PARNIT13 wkg out stations	LSB	(CA2)
RMv	9-10	0532	Fri	4772	BOLT19 wkg ROBIN52	USB	(CA2)
RMv	11-10	0454		4655	Russian Military. PERIL45 wkg BORAL04	USB	(CA2)
RMv	13-10	0402	Tue	3375	TARGAT52 clg out station	USB	(CA2)
RMv	13-10	1447	Tue	4189	KREDIT65 clg	USB	(CA2)
RMv	14-10	0553	Wed	4963.5	Russian Military. MOLAI-72 wkg out stations	USB	(CA2)
RMv	14-10	0807	Wed	4963.5	Russian military. LOTVAY-62 wkg out stations	USB	(CA2)
RMv	14-10	1735	Wed	4484	Russian Military. TARA-81 wkg APOR-50	USB	(CA2)
RNAv	7-10	1339	Wed	11354	Russian Navy aircraft 08210 (AN-12) clg Priboj, Zarechnij and Novator. Priboj answers and 08210 passes msg that he's located at 5916N/3801E at 1336 UTC at alt 6,700 mtrs w/14,200 kgs fuel and ETA Osta	USB	(AB)
RNv	6-10	0908	Tue	8240	INIESKA: Russian Navy. INIESKA (RMJA) wkg GVODZIKA (RCV)	USB	(F5JBR)
RNv	6-10	0908	Tue	8734	GVOZDIKA: Russian Navy Sevastopol. GVODZIKA (RCV) wkg INIESKA (RMJA)	USB	(F5JBR)
RNv	9-10	0805	Fri	3870	VESTNIK (RMP) clg BURYEVESTNIK (RGR79)	USB	(F5JBR)
RNv	9-10	0822	Fri	4346	BURYEVESTNIK (RGR79) clg VESTNIK (RMP)	USB	(F5JBR)
RNv	9-10	1800	Fri	8282	BUKSOL wkg SATFIR, TRAKSAT, BEGUNOK(freq activated by RMP on 4909.5)	USB	(F5JBR)
RNv	12-10	1259	Mon	5232	VESTNIK: Russian Navy, Kaliningrad clg LENI (RHN85)	USB	(F5JBR)
RNv	13-10	0925	Tue	4208	VESTNIK (RMP) clg ROUCHNIK (RGL85)	USB	(F5JBR)
RNv	13-10	1407	Tue	4403	VESTNIK (RMP) clg BURYEVESTNIK (RGR79). After activation by RMP: RGR79 de RMP QSU1 QSX 5745 QWH 4403 AR	USB	(F5JBR)
RNv	13-10	1753	Tue	8282	BUKSOL wkg NAGORYE	USB	(F5JBR)
RNv	14-10	0835	Wed	8282	Russian Navy. BUKSOL wkg NAGORYE, ZABOR (RBES), SEKUNDANT, GVODZIKA (RCV)	USB	(F5JBR)
S06	3-10	1600	Sat	7643	491 0	USB	(HFD)
S06	3-10	2000	Sat	5124	738 0	USB	(HFD)
S06	3-10	2100	Sat	4443	738 0	USB	(HFD)
S06	9-10	0400	Fri	15721	480 931 50 86637 68540 13428 ... 50538 00051 24339 931 50 00000	USB	(AB)
S06	17-10	1605	Sat	6809	491 0	USB	(HFD)
S06	24-10	1605	Sat	6809	491 0	USB	(HFD)
S06	30-10	0930	Fri	16237	842 81x (barely audible)	USB	(AB)
S06a	8-10	1200		12415	425 903 6 44755 16330 88418 30480 88650 34303 903 6 00000	AM	(AB)
S06a	8-10	1210		14212	425 903 6 44755 16330 88418 30480 88650 34303 903 6 00000	AM	(AB)
S06s	1-10	0900		12952	167 428 5 33760 46632 80233 36973 38084 428 5 00000	AM	(AB)
S06s	1-10	0910		6524	624 891 5 38021 33619 32714 35329 93102 891 5 00000	USB	(AB)
S06s	1-10	0910		13565	167 428 5 33760 46632 80233 36973 38084 428 5 00000	AM	(AB)
S06s	1-10	0930		9081	314 267 5 93351 42191 30821 33725 37661 267 5 00000	USB	(AB)
S06s	1-10	0940		10514	314 267 5 93351 42191 30821 33725 37661 267 5 00000	USB	(AB)
S06s	1-10	1200		12415	425 903 6 44755 16330 88418 30480 88650 34303 903 6 00000	AM	(AB)
S06s	1-10	1210		14212	425 903 6 44755 16330 88418 30480 88650 34303 903 6 00000	AM	(AB)
S06s	2-10	0930	Fri	12140	516 802 7 37805 33322 36248 32802 53623 31331 30314 802 7 00000	USB	(AB)
S06s	2-10	0940	Fri	13515	516 802 7 37805 33322 36248 32802 53623 31331 30314 802 7 00000	USB	(AB)
S06s	3-10	1200	Sat	10350	254 809 6 88785 30340 30193 33584 84446 43403 809 6 00000	USB	(AB)
S06s	3-10	1210	Sat	8520	254 809 6 88785 30340 30193 33584 84446 43403 809 6 00000	USB	(AB)
S06s	5-10	0830	Mon	9220	371 469 5 34888 33661 37167 37671 43391 469 5 00000	USB	(AB)
S06s	5-10	0840	Mon	8270	371 469 5 34888 33661 37167 37671 43391 469 5 00000	USB	(AB)
S06s	6-10	0730	Tue	7425	427 519 6 21767 53672 11834 81022 36903 41412 519 6 00000	USB	(AB)
S06s	6-10	0740	Tue	11560	427 519 6 21767 53672 11834 81022 36903 41412 519 6 00000	USB	(AB)
S06s	6-10	0800	Tue	11635	352 871 6 52401 63919 92699 14600 74248 48754 871 6 00000	AM	(AB)
S06s	6-10	0810	Tue	10420	352 871 6 52401 63919 92699 14600 74248 48754 871 6 00000	AM	(AB)
S06s	6-10	1110	Tue	7230	754 916 8 44780 44837 60694 39984 43478 33420 94754 33732 916 8 00000	USB	(AB)
S06s	7-10	0530	Wed	9296	464 287 5 93351 42191 30821 33725 37661 287 5 00000	USB	(AB)
S06s	7-10	0540	Wed	10365	464 287 5 93351 42191 30821 33725 37661 287 5 00000	USB	(AB)
S06s	7-10	0740	Wed	12140	745 906 8 09394 96911 75155 92918 97067 58604 41438 03092 906 8 00000	USB	(AB)
S06s	7-10	1000	Wed	13365	729 514 6 88620 58069 61..2 74537 57440 10594 514 6 00000	USB	(AB)
S06s	7-10	1010	Wed	14050	729 514 6 88620 ...	USB	(AB)
S06s	8-10	0900		12952	167 428 5 33760 47732 80233 36973 38084 428 5 00000	AM	(AB)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
S06s	8-10	0910		13565	167 428 5 33760 47732 80233 36973 38084 428 5 00000	AM	(AB)
S06s	8-10	0910		6524	624 891 5 38021 33619 32714 35329 93102 891 5 00000	USB	(AB)
S06s	8-10	0930		9081	314 267 5 93351 42191 30821 33725 37661 267 5 00000	USB	(AB)
S06s	8-10	0940		10514	314 267 5 93351 42191 30821 33725 37661 267 5 00000	USB	(AB)
S06s	9-10	0930	Fri	12140	516 802 7 37805 33322 36248 32802 53623 31331 30314 802 7 00000	AM	(AB)
S06s	9-10	0940	Fri	13515	516 802 7 37805 33322 36248 32802 53623 31331 30314 802 7 00000	AM	(AB)
S06s	12-10	0910	Mon	13165	872 901 5 83270 96798 34469 37144 48980 901 5 00000	AM	(AB/CA2)
S06s	13-10	0700	Tue	5760	374 251 6 46062 68672 97478 39685 30485 96632 251 6 00000	USB	(AB/CA2)
S06s	13-10	0715	Tue	6930	374 251 6 46062 68672 97478 39685 30485 96632 251 6 00000	USB	(AB/CA2)
S06s	13-10	0740	Tue	11560	427 519 6 21767 53672 11834 81022 36903 41412 519 6 00000	USB	(AB)
S06s	13-10	0800	Tue	11635	352 871 6 52401 63919 92699 14600 74248 48754 871 6 00000 (mixing with HM01)	USB	(AB)
S06s	13-10	0810	Tue	10420	352 871 6 52401 63919 92699 14600 74248 48754 871 6 00000	USB	(AB)
S06s	14-10	0830	Wed	9255	471 803 5 01405 15003 24357 60583 54545 803 5 00000	USB	(AB)
S06s	14-10	1000	Wed	13365	729 514 6 88620 58069 61732 74537 57440 10594 514 6 00000	AM	(AB)
S06s	14-10	1010	Wed	14505	729 514 6 88620 58069 61732 74537 57440 10594 514 6 00000	AM	(AB)
S06s	15-10	0900		12952	167 235 8 39534 17228 15636 47891 23247 17099 94961 35826 235 8 00000	AM	(AB)
S06s	15-10	0910		13565	167 235 8 39534 17228 15636 47891 23247 17099 94961 35826 235 8 00000	AM	(AB)
S06s	15-10	0910		6524	624 819 5 71161 54375 72696 95123 22535 819 5 00000	USB	(AB)
S06s	15-10	0930		9081	314 805 6 96111 10544 98003 68909 45279 43828 805 6 00000	USB	(AB)
S06s	15-10	0940		10514	314 805 6 96111 10544 98003 68909 45279 43828 805 6 00000	USB	(AB)
S06s	15-10	1200		12145	425 809 6 39534 17228 15636 47891 23247 17099 809 6 00000	AM	(AB)
S06s	15-10	1210		14212	425 809 6 39534 17228 15636 47891 23247 17099 809 6 00000	AM	(AB)
S06s	16-10	0930	Fri	12140	516 280 7 52819 41638 63770 41234 62856 84023 52619 280 7 00000	AM	(AB)
S06s	16-10	0940	Fri	13515	516 280 7 52819 41638 63770 41234 62856 84023 52619 280 7 00000	AM	(AB)
S06s	19-10	0830	Mon	9920	371 408 5 93531 42191 30821 33725 37661 408 5 00000	USB	(AB)
S06s	19-10	0840	Mon	8270	371 408 5 93531 42191 30821 33725 37661 408 5 00000	USB	(AB)
S06s	19-10	0900	Mon	14580	872 405 6 37532 34023 33430 41152 34559 45369 405 6 000000	USB	(AB)
S06s	19-10	0910	Mon	13165	872 405 6 37532 34023 33430 41152 34559 45369 405 6 000000	USB	(AB)
S06s	19-10	1200	Mon	9145	831 402 5 15009 34140 78386 91497 82963 402 5 00000	AM	(AB)
S06s	19-10	1210	Mon	11460	831 402 5 15009 34140 78386 91497 82963 402 5 00000	AM	(AB)
S06s	20-10	0800	Tue	11635	352 978 6 36073 46044 86219 36221 48443 83529 978 6 00000. Mixing with HM01	AM	(AB)
S06s	20-10	0810	Tue	10420	352 978 6 36073 46044 86219 36221 48443 83529 978 6 00000	AM	(AB)
S06s	20-10	1110	Tue	7230	754 913 6 34559 45369 43003 52322 36541 46543 913 6 00000	USB	(AB)
S06s	21-10	0540	Wed	10365	464 918 5 73821 20912 31854 83654 09298 918 5 00000	USB	(AB)
S06s	21-10	0740	Wed	12140	745 806 9 96320 36793 53038 76342 15009 34140 78386 91497 82963 806 9 00000	AM	(AB)
S06s	21-10	1010	Wed	14505	729 506 8 40614 77249 40678 17976 21816 42997 94184 47374 506 8 00000	AM	(AB)
S06s	22-10	0900		12952	167 235 8 39534 17228 15636 47891 23247 17099 94961 35826 235 8 00000	AM	(AB)
S06s	22-10	0900		5744	624 ...	USB	(AB)
S06s	22-10	0910		13565	167 235 8 39534 17228 15636 47891 23247 17099 94961 35826 235 8 00000	AM	(AB)
S06s	22-10	0910		6524	624 ...	USB	(AB)
S06s	22-10	0940		10514	314 805 6 96111 10544 98003 68909 45279 43828 805 6 00000	USB	(AB)
S06s	23-10	0930	Fri	12140	516 280 7 52819 41638 63770 41234 62856 84013 52619 280 7 00000	AM	(AB)
S06s	23-10	0940	Fri	13515	516 280 7 52819 41638 63770 41234 62856 84013 52619 280 7 00000	AM	(AB)
S06s	27-10	0730	Tue	7425	427 815 6 41347 85557 43311 88222 47840 14987 815 6 00000	AM	(AB)
S06s	27-10	0740	Tue	11560	427 815 6 41347 85557 43311 88222 47840 14987 815 6 00000	AM	(AB)
S06s	27-10	0800	Tue	11635	352 978 6 36073 46044 86219 36221 48443 83529 978 6 00000 mixing with HM01	USB	(AB)
S06s	27-10	1500	Tue	6464	537 981 6 40493 33625 36147 43625 49461 39716 981 6 00000	USB	(AB)
S06s	27-10	1510	Tue	7242	537 981 6 40493 33625 36147 43625 49461 39716 981 6 00000	USB	(AB)
S06s	28-10	0740	Wed	12140	745 806 9 96320 36793 53038 76342 15009 34140 78386 91497 82963 806 9 00000	AM	(AB)
S06s	28-10	0830	Wed	9255	471 471 471 00000	USB	(AB)
S06s	29-10	0900		12952	167 167 167 00000	AM	(AB)
S06s	29-10	0900		5744	624 624 624 00000	USB	(AB)
S06s	29-10	0910		6524	624 624 624 00000	USB	(AB)
S06s	29-10	0910		13565	167 167 167 00000	AM	(AB)
S06s	29-10	0930		9081	314 314 314 00000	USB	(AB)
S06s	29-10	0940		10514	314 314 314 00000	USB	(AB)
S06s	29-10	1200		12415	425 425 425 00000	AM	(AB)
S06s	29-10	1210		14212	425 425 425 00000	AM	(AB)



Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
S06s	30-10	0930	Fri	12140	516 516 516 00000	AM	(AB)
S06s	30-10	0940	Fri	13515	516 516 516 00000	AM	(AB)
S11a	2-10	0915	Fri	7317	484/00	USB	(AB)
S11a	2-10	1020	Fri	9960	426/00	USB	(AB)
S11a	6-10	0915	Tue	7317	484/00	USB	(AB)
S11a	6-10	1020	Tue	9960	426/37 Vnimanie 71936 05317 88127 ... 66804 84631 05589 Vnimanie, rpt msg, konec	USB	(AB)
S11a	8-10	1015		16112	474/00	USB	(AB)
S11a	9-10	0915	Fri	7317	484/00	USB	(AB)
S11a	9-10	1020	Fri	9960	426/37 Vnimanie 71936 05317 88127 ... 66804 84631 05589 Vnimanie, rpt msg, konec	USB	(AB)
S11a	12-10	1015	Mon	16112	474/00	USB	(AB)
S11a	13-10	0455	Tue	5358	321/00	USB	(AB)
S11a	13-10	0915	Tue	7317	484/00	USB	(AB)
S11a	13-10	1020	Tue	9960	426/00	USB	(AB)
S11a	14-10	1955	Wed	4016	371/00	USB	(AB)
S11a	16-10	0915	Fri	7317	484/00	USB	(AB)
S11a	16-10	1020	Fri	9960	426/00	USB	(AB)
S11a	19-10	1020	Mon	16112	474/00	USB	(AB)
S11a	20-10	0455	Tue	5358	321/00	USB	(AB)
S11a	20-10	0915	Tue	7317	486/34 Vnimanie 51805 11075 41545 ... 63096 27231 25291 Vnimanie, rpt msg, konec	USB	(AB)
S11a	22-10	1015		16112	475/00	USB	(AB)
S11a	23-10	0915	Fri	7317	486/34 Vnimanie 51805 11075 41545 ... 63096 27231 25291 Vnimanie, rpt msg, konec	USB	(AB)
S11a	23-10	1020	Fri	9960	426/00	USB	(AB)
S11a	26-10	1015	Mon	16112	475/32 Vnimanie 69647 37408 84493 ... 56134 86800 68676 Vnimanie, rpt msg, konec	USB	(AB)
S11a	27-10	0455	Tue	5358	320/31 Vnimanie 39098 37603 36587 ... 36573 65068 43486 Vnimanie, rpt msg, konec	USB	(AB)
S11a	27-10	0915	Tue	7317	484/00	USB	(AB)
S11a	27-10	1020	Tue	9960	426/00	USB	(AB)
S11a	28-10	1955	Wed	4016	371/00	USB	(AB)
S11a	29-10	1015		16112	475/32 Vnimanie 69647 37408 84493 ... 56134 86800 68676 Vnimanie, rpt msg, konec	USB	(AB)
S11a	30-10	0455	Fri	5838	320/31 Vnimanie 39098 37603 36587 ... 36573 65068 43486 Vnimanie, rpt msg, konec	USB	(AB)
S11a	30-10	0915	Fri	7317	484/00	USB	(AB)
S11a	30-10	1020	Fri	9960	426/00	USB	(AB)
S11a	30-10	1955	Fri	4016	371/00	USB	(AB)
S28	3-10	1653	Sat	4625	Buzzer channel marker	USB	(AB)
S28	5-10	0725	Mon	4625	MDZhB 52 478 CIMBIDIUM 9976 8433	USB	(Priyom)
S28	5-10	0807	Mon	4625	MDZhB 65 730 GIL'DIYa 6494 8983	USB	(Priyom)
S28	5-10	0939	Mon	4625	MDZhB 03 736 DIL'DRIN 2902 6982	USB	(Priyom)
S28	5-10	1039	Mon	4625	MDZhB 58 608 TIL'DA 8228 1156	USB	(Priyom)
S28	5-10	1046	Mon	4625	MDZhB 73 454 BIL'BOKYe 0503 2167	USB	(Priyom)
S28	6-10	1325	Tue	4625	Test count 1 2 3 4 5 6 7 8	USB	(Priyom)
S28	7-10	0620	Wed	4625	MDZhB 85 343 BIL'BOKS 2673 4954. Second read is cancelled	USB	(Priyom)
S28	7-10	0637	Wed	4625	MDZhB 70 809 VILOTA 8490 5732	USB	(Priyom)
S28	7-10	0643	Wed	4625	MDZhB 89 362 FILOKARTIYa 6353 8415. Sboj (error) in the beginning	USB	(Priyom)
S28	7-10	0722	Wed	4625	MDZhB 63 646 LILOVYI 6746 1675	USB	(Priyom)
S28	7-10	0724	Wed	4625	MDZhB 33 417 VILAShA 5813 2231	USB	(Priyom)
S28	7-10	0803	Wed	4625	MDZhB 42 991 SILANOL 7113 5176	USB	(Priyom)
S28	14-10	0627	Wed	4625	MDZhB 30277 BIGOVKA 32214908	USB	(Priyom)
S28	14-10	0638	Wed	4625	MDZhB 44802 FIGIT 09385499 error in reading(sboj)	USB	(Priyom)
S28	14-10	0641	Wed	4625	MDZhB 01973 MIGAZ 49708333	USB	(Priyom)
S28	14-10	0731	Wed	4625	MDZhB 09057 VIVACHYe 74269589	USB	(Priyom)
S28	14-10	0746	Wed	4625	MDZhB 59185 MAL'TIDIT 01511035	USB	(Priyom)
S28	14-10	0905	Wed	4625	MDZhB 25616 97818 01409 24171 63122 LATYSh 42826821	USB	(Priyom)
S28	14-10	0907	Wed	4625	MDZhB 17590 KOGYeRyE 65516426	USB	(Priyom)
S28	14-10	0958	Wed	4625	MDZhB 80731 88542 30468 65438 83832 56322 27696 RASTUN 64763831	USB	(Priyom)
S28	14-10	1001	Wed	4625	MDZhB 28875 FIBROZNYI 76444372	USB	(Priyom)
S28	14-10	1200	Wed	4625	MDZhB 75355 38570 49922 85787 52466 71503 25209 Naryvnoy 66940375	USB	(Danix)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
S28	14-10	1224	Wed	4625	MDZhB 69128 KASTYeLYaN 20496458 RASSYeV 73774270 VASSAL'NYJ 83193156 VASOVITYJ 34672176	USB	(Priyom)
S28	14-10	1228	Wed	4625	MDZhB 74262 KASTYeLYaN 20496458 VASSAL'NYJ 83193156	USB	(Priyom)
S28	15-10	0937		4625	MDZhB 81637 DIASPORA 30683162	USB	(Priyom)
S28	15-10	1655		4625	Buzzer channel marker //6998 kHz	USB	(AB)
S28	15-10	1700		6998	Buzzer channel marker on 4625//6998 kHz	USB	(Danix/AB)
S28	16-10	0549	Fri	6998	Buzzer channel marker on 4625//6998 kHz	USB	(AB)
S28	16-10	2018	Fri	6998	Buzzer channel marker on 4625//6998 kHz	USB	(AB)
S28	17-10	1605	Sat	6998	buzzing //4625	USB	(HFD)
S28	18-10	0645		6998	Buzzer channel marker on 4625//6998 kHz	USB	(AB)
S28	19-10	0544	Mon	6998	Buzzer channel marker on 4625//6998 kHz	USB	(AB)
S28	19-10	0622	Mon	4625	MDZhB 42393 DIAFAUZA 49005116	USB	(Priyom)
S28	19-10	0631	Mon	4625	MDZhB 42393 DIAPAUZA 49005116 Repeat of the previous failed signal	USB	(Priyom)
S28	19-10	0642	Mon	4625	MDZhB 53508 ChIANURI 40772921	USB	(Priyom)
S28	19-10	0643	Mon	4625	MDZhB 83540 PIANOLO 70867648	USB	(Priyom)
S28	19-10	0648	Mon	4625	MDZhB 60552 DIALOMA 30525981	USB	(Priyom)
S28	19-10	0653	Mon	4625	MDZhB 03541 DIAKARB 29535623	USB	(Priyom)
S28	19-10	0735	Mon	4625	MDZhB 20176 VIADUK 41466706	USB	(Priyom)
S28	19-10	0958	Mon	4625	MDZhB 61085 VZYaTOK 58107249	USB	(Priyom)
S28	19-10	1222	Mon	4625	MDZhB 08286 AZURIJ 37110328	USB	(Priyom)
S28	19-10	1223	Mon	4625	MDZhB 21819 VZRYShNIK 22055941 Sboj (error) in the beginning	USB	(Priyom)
S28	19-10	1258	Mon	4625	MDZhB 40606 VZRASHchYeNIYe 38196525	USB	(Priyom)
S28	19-10	1840	Mon	6998	Buzzer channel marker on 4625//6998 kHz	USB	(AB)
S28	20-10	1441	Tue	4625	MDZhB 11060 OZORA 42785908	USB	(Priyom)
S28	20-10	1452	Tue	4625	MDZhB 89954 OZONID 76502887	USB	(Priyom)
S28	20-10	1456	Tue	4625	MDZhB 67903 IZOZOMA 40131723	USB	(Priyom)
S28	20-10	1531	Tue	4625	MDZhB 97629 IZOBATA 62653229	USB	(Priyom)
S28	20-10	1541	Tue	4625	MDZhB 95713 VZODRANIYe 76040213	USB	(Priyom)
S28	20-10	1546	Tue	4625	MDZhB 72121 IZOGALINA 29778268	USB	(Priyom)
S28	20-10	2146	Tue	6998	Buzzer channel marker on 4625//6998 kHz	USB	(AB)
S28	21-10	0920	Wed	4625	MDZhB 28850 VZMYeTNOST' 01766552	USB	(Priyom)
S28	21-10	0930	Wed	4625	MDZhB 10505 UZKIJ 03694782	USB	(Priyom)
S28	21-10	0932	Wed	4625	MDZhB 57329 VZDYeRZhKA 29672439	USB	(Priyom)
S28	21-10	0939	Wed	4625	MDZhB 02630 IZGOLUBA 95050338	USB	(Priyom)
S28	21-10	0947	Wed	4625	MDZhB 49456cVZVOZ 54043163	USB	(Priyom)
S28	21-10	1007	Wed	4625	MDZhB 30809 IZAchYeN 78377002	USB	(Priyom)
S28	21-10	1347	Wed	4625	MDZhB 85958 AZARINA 92317566	USB	(Priyom)
S28	21-10	1522	Wed	4625	MDZhB 98739 YeZhYeMUHA 84507272	USB	(Priyom)
S28	21-10	1543	Wed	4625	MDZhB 87602 DZhYeMPYeR 13483324	USB	(Priyom)
S28	21-10	1545	Wed	4625	MDZhB 52598 DZhAVYeC 53135009 part of other signal read can be heard in the beginning	USB	(Priyom)
S28	21-10	1605	Wed	4625	MDZhB 45203 VYeShNIJ 52388698 (female voice on background)	USB	(Priyom)
S28	21-10	1630	Wed	4625	MDZhB 98385 NYeChUTKOST' 86929878	USB	(Priyom)
S28	22-10	1124		4625	MDZhB 92953 VYeChYeYa 26262962 PYeHOTINYeC 66555011	USB	(Priyom)
S28	22-10	1233		4625	MDZhB 21816 SYeUNCh 27123459	USB	(Priyom)
S28	22-10	1234		4625	MDZhB 37104 NYeUMNYJ 67703294	USB	(Priyom)
S28	23-10	1212	Fri	4625	MDZhB 33668 CYeTRARIJ 98287654	USB	(Priyom)
S28	23-10	1214	Fri	4625	MDZhB 14332 MYeTROKIN 79081670	USB	(Priyom)
S28	23-10	1217	Fri	4625	MDZhB 62229 VYeTOHA 06557092	USB	(Priyom)
S28	23-10	1224	Fri	4625	MDZhB 28638 LYeTOPICYeC 48922408	USB	(Priyom)
S28	23-10	1227	Fri	4625	MDZhB 64306 VYeTIVYeNOK 23783591	USB	(Priyom)
S28	23-10	1254	Fri	4625	MDZhB 10147 MYeTIACIL 80137846	USB	(Priyom)
S28	23-10	1450	Fri	4625	MDZhB 56512 PYeTYeL'ShchIK 20619486	USB	(Priyom)
S28	25-10	1250		4625	MDZhB 38673 NYeTVYeRDYJ 39120447	USB	(Priyom)
S28	25-10	1252		4625	MDZhB 90063 PYeTALIT 57851186	USB	(Priyom)
S28	25-10	1419		4625	MDZhB 69760 MYeTAKSIT 28392100	USB	(Priyom)
S28	26-10	0532	Mon	4625	MDZhB 97822 NYeSUSShchIJ 36983417	USB	(Priyom)
S28	26-10	0753	Mon	4625	MDZhB 36759 FYeSTUKA 67263463	USB	(Priyom)
S28	26-10	1235	Mon	4625	MDZhB 92014 BYeSSChYeTNYJ 04857799	USB	(Priyom)
S28	26-10	1414	Mon	4625	MDZhB 86481 VESSOYuZNYJ 65101139	USB	(Priyom)
S28	27-10	1841	Tue	6998	Buzzer channel marker on 4625//6998 kHz	USB	(AB)
S28	28-10	1540	Wed	4625	MDZhB 63926 LYeSOHIMIYa 52269099	USB	(Priyom)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
S28	28-10	1551	Wed	4625	MDZhB 02236 NYeSOVKA 83025191	USB	(Priyom)
S28	28-10	1714	Wed	4625	MDZhB 59083 BYeSNOVATYJ 13206622	USB	(Priyom)
S28	29-10	0916		4625	MDZhB 91549 VYeSLYeNIK 54676508	USB	(Priyom)
S28	29-10	1252		4625	MDZhB 80614 VYeSLATA 47955331	USB	(Priyom)
S28	29-10	1325		4625	MDZhB 68040 MYeSIL'ShchIK 39354765	USB	(Priyom)
S28	30-10	0733	Fri	4625	MDZhB 43541 VYeRShADYeC 90294576	USB	(Priyom)
S28	30-10	0746	Fri	4625	MDZhB 27036 ZYeRNOFUZAzh 50181244	USB	(Priyom)
S28	30-10	0751	Fri	4625	MDZhB 66875 KYeRNIT 91815772 Sboj (error) in reading	USB	(Priyom)
S28	30-10	0808	Fri	4625	MDZhB 52223 PYeRLOVICA 99899604	USB	(Priyom)
S28	30-10	0812	Fri	4625	MDZhB 58750 TYeRKA 56018520	USB	(Priyom)
S28	30-10	2151	Fri	6998	Buzzer channel marker on 4625//6998 kHz	USB	(MPJ)
S28	31-10	0947	Sat	6889	Buzzer channel marker on 4625//6998 kHz	USB	(AB)
S30	1-10	1411		5448	8S1Shch 55 184 ZAHOLUST'Ye 5803 1184	USB	(Priyom)
S30	2-10	1425	Fri	5448	8S1Shch 94 151 BOTVUSHKA 1524 2815	USB	(Priyom)
S30	3-10	1652	Sat	3756	Pip channel marker	USB	(AB)
S30	3-10	1859	Sat	3756	BO6C F56Shch 9GSA ZhBZI 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR	USB	(Priyom)
S30	4-10	1507		5448	V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchhJ 27Shch'	USB	(Priyom)
S30	5-10	0437	Mon	5448	S7ZhG Z'1B CI9V ZhSK4 HZST 5FSShch 8MUO TUZR 5J7Shch DMC3	USB	(Priyom)
S30	5-10	1354	Mon	5448	49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch	USB	(Priyom)
S30	5-10	1509	Mon	5448	8S1Shch 49 075 STRYeLa 2345 6783	USB	(Priyom)
S30	5-10	1632	Mon	5448	Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZI	USB	(Priyom)
S30	6-10	1409	Tue	5448	8S1Shch 60 365 NOVOTRON 9743 3335	USB	(Priyom)
S30	6-10	1417	Tue	5448	5J7Shch 04 358 VYROZhDYeNIYe 4453 3110	USB	(Priyom)
S30	6-10	1423	Tue	5448	8S1Shch 22 982 IBYeR 4642 9924	USB	(Priyom)
S30	6-10	1425	Tue	5448	8S1Shch 17 262 IDKU 9930 5785	USB	(Priyom)
S30	6-10	1427	Tue	5448	8S1Shch 02 838 MASTODONT 4558 6261	USB	(Priyom)
S30	6-10	1430	Tue	5448	8S1Shch 85 912 UMYVAL'NIK 1429 1988	USB	(Priyom)
S30	6-10	1433	Tue	5448	8S1Shch 68 829 ZYeNITNYJ 8316 3380	USB	(Priyom)
S30	6-10	1442	Tue	5448	8S1Shch 36 548 KALIL'ShchIK 6148 3932	USB	(Priyom)
S30	8-10	1429		5448	8S1Shch 23 288 98 976 KYuRIT 8509 1473	USB	(Priyom)
S30	10-10	1644	Sat	5448	DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1	USB	(Priyom)
S30	14-10	0533	Wed	5448	S7ZhG Z'1B CI9V ZhSK4 HZST 5FSShch 8MUO TUZR 5J7Shch DMC3	USB	(Priyom)
S30	14-10	0618	Wed	5448	8S1Shch 11393 LASHMAN 00233146	USB	(Priyom)
S30	14-10	0641	Wed	5448	8S1Shch 63796 MORIL'ShchIK 99440877	USB	(Priyom)
S30	14-10	0733	Wed	5448	8S1Shch 28750 BOMBONA 07659470	USB	(Priyom)
S30	14-10	0741	Wed	5448	8S1Shch 29107 ORTROFIN 43824675	USB	(Priyom)
S30	14-10	1511	Wed	5448	49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch	USB	(Priyom)
S30	15-10	1438		5448	TshchSchchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ	USB	(Priyom)
S30	15-10	1652		3756	Pip channel marker	USB	(AB)
S30	16-10	0559	Fri	5448	Pip channel marker	USB	(AB)
S30	16-10	1303	Fri	5448	8S1Shch 18841 LYePYeShhNIK 91041580	USB	(Priyom)
S30	17-10	1639	Sat	3756	ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh	USB	(Priyom)
S30	19-10	0458	Mon	5448	49FT 90553 OGOROShYeNYJ 25732590	USB	(Priyom)
S30	19-10	0459	Mon	5448	49FT 58362 ELIZAR 18342007	USB	(Priyom)
S30	19-10	0527	Mon	5448	37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C	USB	(Priyom)
S30	19-10	0621	Mon	5448	8S1Shch 73167 VYeRTOGRAD 52760736	USB	(Priyom)
S30	19-10	0633	Mon	5448	8S1Shch 42027 HUNGARA 93356323	USB	(Priyom)
S30	19-10	0636	Mon	5448	8S1Shch 55951 TYeVONDA 74516243	USB	(Priyom)
S30	19-10	0646	Mon	5448	8S1Shch 72400 PODKLADNOJ 87840612	USB	(Priyom)
S30	19-10	0649	Mon	5448	8S1Shch 10345 LIVNICA 18885958	USB	(Priyom)
S30	19-10	0730	Mon	5448	8S1Shch 98789 DYeLIMIN 05405595	USB	(Priyom)
S30	19-10	1211	Mon	5448	8S1Shch 38573 RAZGRAFKA 48436019	USB	(Priyom)
S30	19-10	1220	Mon	5448	8S1Shch 18140 GRIVACHl 21388436	USB	(Priyom)
S30	19-10	1258	Mon	5448	8S1Shch 00350 VOLNORYeZ 27772500	USB	(Priyom)
S30	19-10	1421	Mon	5448	8S1Shch 87503 SLIChATYeL' 12650918	USB	(Priyom)
S30	19-10	1441	Mon	5448	8S1Shch 66508 AGROTYeHNIYa 82906206	USB	(Priyom)
S30	19-10	1454	Mon	5448	8S1Shch 57684 PRISTAVShchIK 87036826	USB	(Priyom)
S30	19-10	1459	Mon	5448	8S1Shch 67608 TYeRMINATOR 28814622	USB	(Priyom)
S30	19-10	1843	Mon	3756	Pip channel marker	USB	(AB)
S30	20-10	0458	Tue	5448	NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchhJ 27Shch' N1DU	USB	(Priyom)
S30	20-10	1412	Tue	3756	53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG	USB	(Priyom)
S30	20-10	1537	Tue	3756	8S1Shch 36236 YeHIDSTVO 89358438	USB	(Priyom)

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S30	20-10	1543	Tue	3756	8S1Shch 90461 MYeRChISON 33647804	USB	(Priyom)
S30	20-10	1653	Tue	3756	8S1Shch 33497 KANKA 90351568	USB	(Priyom)
S30	20-10	1824	Tue	3756	Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT	USB	(Priyom)
S30	21-10	0526	Wed	5448	C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh	USB	(Priyom)
S30	21-10	1344	Wed	5448	8S1Shch 23406 NYeVZhIVANIYe 93974515	USB	(Priyom)
S30	21-10	1520	Wed	3756	8S1Shch 29944 PRYeLYuTYJ 97075719	USB	(Priyom)
S30	21-10	1535	Wed	3756	8S1Shch 06416 IZYeR 24702469	USB	(Priyom)
S30	21-10	1626	Wed	3756	8S1Shch 57178 MOTOVAGON 54514262	USB	(Priyom)
S30	21-10	1804	Wed	3756	3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS	USB	(Priyom)
S30	22-10	1338		5448	8S1Shch 39983 ANTROINAYa 08006108	USB	(Priyom)
S30	22-10	1653		3756	'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J	USB	(Priyom)
S30	23-10	1408	Fri	5448	8S1Shch weather warning: 24.10.15 i v pervoy polovine 25 oktyabrya mestami (see N&O 217)	USB	(Priyom)
S30	23-10	1450	Fri	5448	8S1Shch 92674 PULYeMYeTChIK 24196133	USB	(Priyom)
S30	23-10	1905	Fri	5448	OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV	USB	(Priyom)
S30	24-10	1450	Sat	5448	L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ	USB	(Priyom)
S30	25-10	1240		5448	8S1Shch 03207 OKSAZOLON 32375015	USB	(Priyom)
S30	25-10	1414		5448	8S1Shch 87996 STANOVShchIK 23686387	USB	(Priyom)
S30	25-10	1600		5448	DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR	USB	(Priyom)
S30	26-10	0533	Mon	5448	8S1Shch 56125 NYeUMYeSTNYJ 11073771	USB	(Priyom)
S30	26-10	1233	Mon	5448	8S1Shch 79966 RASCYeNShchIK 90134883	USB	(Priyom)
S30	26-10	1335	Mon	5448	KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27	USB	(Priyom)
S30	26-10	1413	Mon	5448	8S1Shch 16959 SALASA 86198627	USB	(Priyom)
S30	26-10	1714	Mon	3756	V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV	USB	(Priyom)
S30	27-10	0546	Tue	5448	DEAY JH'J 12CI 9AJ ShchT3O CHS Z7PM S7ZhG Z'1B CI9V	USB	(Priyom)
S30	28-10	1542	Wed	3756	8S1Shch 75932 OTBROSNYJ 17837379	USB	(Priyom)
S30	28-10	1553	Wed	3756	8S1Shch 79329 DICIAN 34487407	USB	(Priyom)
S30	28-10	1650	Wed	3756	ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF	USB	(Priyom)
S30	28-10	1721	Wed	3756	8S1Shch 30739 OFTAL'MIYa 24202611	USB	(Priyom)
S30	28-10	1830	Wed	3756	61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM	USB	(Priyom)
S30	29-10	0529		5448	6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ	USB	(Priyom)
S30	29-10	1252		5448	8S1Shch 03569 KANTILYeNA 32256976	USB	(Priyom)
S30	29-10	1307		5448	ShchT3O CHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO	USB	(Priyom)
S30	29-10	1323		5448	8S1Shch 64595 ShUFLA 55445940	USB	(Priyom)
S32	3-10	1648	Sat	3828	Squeaky Wheel channel marker	USB	(AB)
S32	4-10	1832		3828	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(Priyom)
S32	6-10	1414	Tue	5473	AL'FA-45 17 996 PANORAMNYJ 0230 3641	USB	(Priyom)
S32	6-10	1428	Tue	5473	AL'FA-45 94 104 AVYeRS 5128 6373 with S30 in the background	USB	(Priyom)
S32	6-10	1432	Tue	5473	AL'FA-45 13 651 RAZRYeZKA 7613 5937 with S30 in the background	USB	(Priyom)
S32	6-10	1435	Tue	3828	AL'FA-45 11 150 UHOZh' 6590 8406	USB	(Priyom)
S32	6-10	1447	Tue	3828	AL'FA-45 00 449 GLIZANTIN 7545 2342	USB	(Priyom)
S32	6-10	1539	Tue	3828	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39	USB	(Priyom)
S32	6-10	1620	Tue	3828	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34	USB	(Priyom)
S32	6-10	2129	Tue	3828	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39	USB	(Priyom)
S32	7-10	1504	Wed	3828	SLIVA-94 LANDYSh-74 STAZHER-29 ALEUT-09 ZASLONKA-27	USB	(Priyom)
S32	11-10	1527		3828	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(Priyom)
S32	14-10	1621	Wed	3828	AL'FA-45 20204 PALCCO 25780836	USB	(Priyom)
S32	15-10	1655		3828	Squeaky Wheel channel marker	USB	(AB)
S32	16-10	0600	Fri	5473	Squeaky Wheel channel marker	USB	(AB)
S32	16-10	0723	Fri	3828	RUZh'E-26 BIZON-64	USB	(Priyom)
S32	19-10	0625	Mon	5473	AL'FA-45 29756 GYeLDRIYeC 21837063	USB	(Priyom)
S32	19-10	0640	Mon	5473	AL'FA-45 19999 NYeBYTIYe 60479478	USB	(Priyom)
S32	19-10	0642	Mon	5473	AL'FA-45 38357 LUAPULA 93255060	USB	(Priyom)
S32	19-10	0651	Mon	5473	AL'FA-45 84498 ATTYa 06673803	USB	(Priyom)
S32	19-10	0653	Mon	5473	AL'FA-45 06404 KULUMBARIJ 31376658	USB	(Priyom)
S32	19-10	1223	Mon	5473	AL'FA-45 74987 ELYeKTROBUS 23285441	USB	(Priyom)
S32	19-10	1226	Mon	5473	AL'FA-45 83886 TVORKA 64428358	USB	(Priyom)
S32	19-10	1301	Mon	5473	AL'FA-45 74485 FARCOVShchIK 31636798	USB	(Priyom)
S32	19-10	1325	Mon	5473	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39	USB	(Priyom)
S32	19-10	1417	Mon	5473	AL'FA-45 36393 SFYeROID 91699998	USB	(Priyom)
S32	19-10	1445	Mon	5473	AL'FA-45 38910 KUShAchNYJ 37377571	USB	(Priyom)
S32	19-10	1655	Mon	3828	Squeaky Wheel channel marker	USB	(AB)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
S32	20-10	0758	Tue	5473	SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27	USB	(Priyom)
S32	20-10	1541	Tue	3828	AL'FA-45 34901 SOLONICA 44100498	USB	(Priyom)
S32	20-10	1549	Tue	3828	AL'FA-45 09709 ESTADIL 66613495	USB	(Priyom)
S32	20-10	1730	Tue	5473	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32	USB	(Priyom)
S32	21-10	1530	Wed	3828	AL'FA-45 06253 NALIVChATYJ 65621315 with S30 in the background	USB	(Priyom)
S32	21-10	1535	Wed	3828	AL'FA-45 69587 MONTRYeL 12455243	USB	(Priyom)
S32	21-10	1540	Wed	3828	AL'FA-45 59654 POPIRANIYe 70175407 with S30 in the background	USB	(Priyom)
S32	21-10	1632	Wed	3828	AL'FA-45 17726 KOKVIMBIT 22943449 with S30 in the background	USB	(Priyom)
S32	21-10	2032	Wed	3828	AL'FA-45 57522 KUVAR 96619151 with S30 in the background	USB	(Priyom)
S32	22-10	1343		5473	AL'FA-45 78586 VYeRUHA 08059705 error while reading	USB	(Priyom)
S32	22-10	1730		3828	KURGAN-40 DUBLYoR-68 STUPA-32 ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34	USB	(Priyom)
S32	22-10	1806		3828	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27	USB	(Priyom)
S32	23-10	1440	Fri	3828	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(Priyom)
S32	23-10	1454	Fri	5473	AL'FA-45 51151 LYeSISTYJ 39121505	USB	(Priyom)
S32	23-10	1503	Fri	5473	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(Priyom)
S32	24-10	1403	Sat	5473	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34	USB	(Priyom)
S32	24-10	1403	Sat	5473	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34	USB	(Priyom)
S32	24-10	1733	Sat	5473	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32	USB	(Priyom)
S32	24-10	1733	Sat	5473	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32	USB	(Priyom)
S32	25-10	1300		5473	AL'FA-45 83910 BOLYuGa 97551918	USB	(Priyom)
S32	25-10	1300		5473	AL'FA-45 83910 BOLYuGa 97551918	USB	(Priyom)
S32	25-10	1418		5473	AL'FA-45 80402 RYeVYeNNYJ 50622378	USB	(Priyom)
S32	25-10	1418		5473	AL'FA-45 80402 RYeVYeNNYJ 50622378	USB	(Priyom)
S32	26-10	0538	Mon	5473	AL'FA-45 03192 GYeLYeBINBON 02147018 first read has failed due to line failure	USB	(Priyom)
S32	26-10	0538	Mon	5473	AL'FA-45 03192 GYeLYeBINBON 02147018 first read has failed due to line failure	USB	(Priyom)
S32	26-10	1414	Mon	5473	AL'FA-45 26811 VYeLYeN' 92793986 with S30 in the background	USB	(Priyom)
S32	26-10	1414	Mon	5473	AL'FA-45 26811 VYeLYeN' 92793986 with PIP (S30) on background	USB	(Priyom)
S32	26-10	1440	Mon	5473	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 with S30 in the background	USB	(Priyom)
S32	26-10	1440	Mon	5473	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 with PIP (S30) on background	USB	(Priyom)
S32	28-10	1542	Wed	3828	AL'FA-45 65654 FRYeZYeROVShchIK 20939389	USB	(Priyom)
S32	28-10	1553	Wed	3828	AL'FA-45 06959 NYeVYeShVANIYe 45744358	USB	(Priyom)
S32	28-10	1714	Wed	3828	AL'FA-45 22991 CIBULYa 90569182 with PIP (S30) on background	USB	(Priyom)
S32	28-10	1943	Wed	3828	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34	USB	(Priyom)
S32	29-10	1255		5473	AL'FA-45 94869 BAVYuLON 00974735	USB	(Priyom)
S32	29-10	1327		5473	AL'FA-45 64170 FRAZIROVKA 82585615 error in second read	USB	(Priyom)
S32	29-10	2022		3828	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(Priyom)
S3850	3-10	1645	Sat	3850	Channel marker (long dash)	USB	(AB)
S3850	6-10	2259	Tue	3850	Pilot-28, Pilot-28, Ya Baron-78, moskovskoye vremya 1 chas (= Moscow Time 1:00)	USB	(DJPr)
S3850	7-10	0329	Wed	3850	Pilot-28, ya Baron-78 oksazon 80971297	USB	(DJPr)
S3850	15-10	1653		3850	Channel marker (long dash)	USB	(AB)
S3850	19-10	1841	Mon	3850	Channel marker	USB	(AB)
S3850	20-10	2148	Tue	3850	Channel marker	USB	(AB)
S4525	3-10	1646	Sat	4525	Channel marker (short dash)	USB	(AB)
S4525	19-10	1842	Mon	4525	Channel marker	USB	(AB)
S4525	28-10	1825	Wed	4525	Channel marker (dash)	USB	(AB)
S5292	3-10	1647	Sat	5292	Channel marker "D"	USB	(AB)
S5292	11-10	1329		5292	FAZAN-37 48920 VAKUOL' 38469954	USB	(Priyom)
S5292	15-10	1655		5292	Channel marker "D"	USB	(AB)
S5292	16-10	0558	Fri	5292	Channel marker D	USB	(AB)
S5292	19-10	0800	Mon	5292	BARZhA-08 18746 PROTIVEN' 17633843 (Sound of printing device on background, count before the signal)	USB	(Priyom)
S5292	19-10	1235	Mon	5292	SYeKRYeT-39 36941 DOSTATOK 24166383	USB	(Priyom)
S5292	19-10	1237	Mon	5292	RYeGATA-75 89234 RYeMONT 28234479	USB	(Priyom)

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S5292	19-10	1843	Mon	5292	Channel marker "D"	USB	(AB)
S5292	20-10	2149	Tue	5292	Channel marker D	USB	(AB)
S5292	21-10	1230	Wed	5292	BOYeC-43 04698 UPROShchYeNIYe 27463932	USB	(Priyom)
S5292	22-10	1402		5292	SYeKRYeT-39 57803 UMOLShchIK 27361192	USB	(Priyom)
S5292	22-10	1405		5292	RYeGATA-75 59840 BAGUL'NIK 23728473	USB	(Priyom)
S5292	25-10	1157		5292	FAZAN-37 46754 KURAGA 27229842	USB	(Priyom)
S5292	25-10	1928		5292.8	Channel marker D	CW	(MPJ)
S5292	28-10	0909	Wed	5292	BARZHA-08 BOYeC-43 26382 DISCIPLINA 16358758	USB	(Priyom)
S5292	28-10	1244	Wed	5292	RYeGATA-75 35812 VAZhNOST' 35786532	USB	(Priyom)
S5292	28-10	1259	Wed	5292	BOYeC-43 35812 VAZhNOST' 35786532	USB	(Priyom)
UM10	1-10	2117		3392	10-mins net: FX7T	CW	(JPL-Sib)
UM10	4-10	1208		3340	10-mins net: BG5Y (Uses 05 and 35 time slots)	CW	(JPL-Sib)
UM10	6-10	1144	Tue	3363	10-mins net: BG5Y	CW	(JPL-Sib)
UM10	7-10	1855	Wed	3987	10-mins net: WORZ //3329 kHz	CW	(JPL-Sib)
UM10	7-10	1855	Wed	3329	10-mins net: WORZ //3987 kHz	CW	(JPL-Sib)
UM10	20-10	1559	Tue	3329	10-min net: WORZ	CW	(JPL-Sib)
UM10	23-10	1837	Fri	3363	10-mins net: BG5Y	CW	(JPL-Sib)
V02a	8-10	2026		7554	YL/SS in LSB announcing 5FGs with pause after every 10 groups. Should be M08a	LSB	(DSch)
V02a	29-10	1959		7554	Atencion YL/SS announcing 3 callup groups into traffic. Too noisy to copy. Ends at 2039 UTC. Should be M08a	AM	(DSch)
V07	4-10	0100		18074	883 883 883 000	USB	(Dan)
V07	4-10	0120		15874	883 883 883 000	USB	(Dan)
V07	11-10	0100		18074	883 1 478 63 47485 00333 .... 44581 000 000	USB	(Dan)
V07	11-10	0120		15874	883 1 478 63 47485 00333 .... 44581 000 000	USB	(Dan)
V07	11-10	0140		14374	883 1 478 63 47485 00333 .... 44581 000 000	USB	(Dan)
V07	18-10	0100	Sun	18074	883 0	USB	(HFD)
V07	18-10	0100		18074	883 883 883 000	USB	(Dan)
V07	18-10	0120	Sun	15874	883 0	USB	(HFD)
V07	18-10	0120		15874	883 883 883 000	USB	(Dan)
V07	25-10	0100		18074	883 883 883 1 511 77 44849 49413 ..... 21950 000 000	USB	(Dan)
V07	25-10	0120		15874	883 883 883 1 511 77 44849 49413 ..... 21950 000 000	USB	(Dan)
V07	25-10	0140		14374	883 883 883 1 511 77 44849 49413 ..... 21950 000 000	USB	(Dan)
V21	16-10	1330	Fri	5637	Cuban Babbler reading series of figures	USB	(AAFL)
V26	30-9	1014	Wed	7553	4LGs	USB	(JPL-HK)
V26	1-10	0028	Thu	8073	XSV85 voice traffic, male operator	CW	(JPL)
V26	2-10	1132	Fri	8073	XSV85 voice traffic, female operator	CW	(JPL)
V26	3-10	0001	Sat	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	3-10	0039	Sat	8073	XSV85 voice traffic, male operator	CW	(JPL)
V26	5-10	1159	Mon	8073	XSV85 voice traffic, female operator	CW	(JPL)
V26	6-10	0001	Tue	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	6-10	0017	Tue	8073	XSV85 voice traffic, male operator	CW	(JPL)
V26	6-10	1130	Tue	8073	XSV85 voice callup, female operator	CW	(JPL)
V26	7-10	0001	Wed	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	7-10	0005	Wed	9054	Mechanical female	USB	(JPL-Sib)
V26	7-10	0015	Wed	8073	XSV85 voice traffic, female operator	CW	(JPL)
V26	7-10	0859	Wed	7553	Data followed by female voice traffic	4+4 QPSK 75/1000 LSB	(JPL-Sib)
V26	7-10	1129	Wed	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	8-10	0020	Thu	8073	XSV85 voice traffic, male operator	CW	(JPL)
V26	9-10	1128	Fri	8073	XSV85 voice traffic, male operator	CW	(JPL)
V26	10-10	0001	Sat	8073	XSV85 voice traffic, male operator	CW	(JPL)
V26	10-10	0908	Sat	7553	Data followed by female voice traffic	4+4 QPSK 75/1000 LSB	(JPL-Sib)
V26	10-10	0913	Sat	7553	Female voice i.p.	USB	(Dan)
V26	10-10	1209	Sat	8073	XSV85 voice traffic, male operator	CW	(JPL)
V26	11-10	1131	Sun	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	11-10	1156	Sun	8073	XSV85 voice traffic, male operator	CW	(JPL)
V26	12-10	0037	Mon	8073	XSV85 voice traffic, female operator	CW	(JPL)
V26	13-10	0001	Tue	8073	XSV85 voice traffic, male operator	CW	(JPL)
V26	13-10	1002	Tue	7553	i.p. female voice	USB	(JPL-HK)
V26	13-10	1129	Tue	8073	XSV85 voice traffic, female operator	CW	(JPL)
V26	14-10	1129	Wed	8073	XSV85 voice callup, male operator	CW	(JPL)

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V26	15-10	0001	Thu	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	15-10	0023	Thu	8073	XSV85 voice repeat of M95 and Q26, male operator	CW	(JPL)
V26	16-10	0001	Fri	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	16-10	0948	Fri	7553	i.p. female voice //9153 kHz	USB	(JPL-HK)
V26	16-10	0948	Fri	9153	i.p. female voice //7553 kHz	USB	(JPL-HK)
V26	16-10	1129	Fri	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	17-10	1129	Sat	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	23-10	1130	Fri	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	25-10	0001	Sun	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	25-10	1130	Sun	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	26-10	0920	Mon	7553	Message	USB	(JPL-HK)
V26	27-10	1130	Tue	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	28-10	0001	Wed	8073	XSV85 voice callup, female operator	CW	(JPL)
V26	28-10	1129	Wed	8073	XSV85 voice callup, female operator	CW	(JPL)
V26	30-10	0001	Fri	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	30-10	1130	Fri	8073	XSV85 voice callup, male operator	CW	(JPL)
V26	30-10	1223	Fri	8073	XSV85 voice traffic, male operator	CW	(JPL)
VC01	10-10	1645	Sat	5172	Chinese Robot i.p.	USB	(JPL-Sib/AB-HK)
X06	1-10	0654		17468	Mazielka. Sequence: 436512	MFSK	(PUK)
X06	1-10	1235		19405	Mazielka. Sequence: 352416	MFSK	(PUK)
X06	1-10	1242		16132	Mazielka. Sequence: 352416	MFSK	(PUK)
X06	2-10	0621	Fri	16320	Mazielka. Sequence: 241563	MFSK	(PUK)
X06	2-10	0827	Fri	14570	Mazielka. Sequence: 324615	MFSK	(PUK)
X06	2-10	0933	Fri	18197	Mazielka. Sequence: 645321	MFSK	(PUK)
X06	3-10	0733	Sat	19511	Mazielka. Sequence: 314265	MFSK	(PUK)
X06	3-10	0900	Sat	14970	Mazielka. Sequence: 216354	MFSK	(Danix)
X06	3-10	1023	Sat	18245	Mazielka. Sequence: 231654	MFSK	(PUK)
X06	3-10	1028	Sat	19878	Mazielka. Sequence: 231654	MFSK	(Danix)
X06	5-10	0807	Mon	14631	Mazielka. Sequence: 362154	MFSK	(AAI)
X06	5-10	1020	Mon	16103	Mazielka. Sequence: 645321	MFSK	(AAI)
X06	5-10	1037	Mon	14547	Mazielka. Sequence: 645321	MFSK	(Sch)
X06	5-10	1537	Mon	12199	Mazielka. Sequence: 532614	MFSK	(PUK)
X06	6-10	0805	Tue	11462	Mazielka. Sequence: 165423	MFSK	(PUK)
X06	6-10	0909	Tue	20336	Mazielka. Sequence: 246531	MFSK	(PUK)
X06	6-10	1140	Tue	17454	Mazielka. Sequence: 325614	MFSK	(AAI)
X06	8-10	0833		16153	Mazielka. Sequence: 153624	MFSK	(PUK)
X06	8-10	0949		13506	Mazielka. Sequence: 164532	MFSK	(PUK)
X06	8-10	1448		10214	Mazielka. Sequence: 263145	MFSK	(PUK)
X06	8-10	1520		10535	Mazielka. Sequence: 564213	MFSK	(PUK)
X06	9-10	0847	Fri	10635	Mazielka. Sequence: 356412	MFSK	(PUK)
X06	9-10	0956	Fri	19611	Mazielka. Sequence: 256134	MFSK	(PUK)
X06	9-10	1024	Fri	14358	Mazielka. Sequence: 154263	MFSK	(AAI/AB)
X06	9-10	1032	Fri	12213	Mazielka. Sequence: 615243	MFSK	(PUK)
X06	9-10	1221	Fri	14650	Mazielka. Sequence: 215346	MFSK	(PUK)
X06	11-10	1219		15710	Mazielka. Sequence: 261453	MFSK	(PUK)
X06	12-10	0929	Mon	13517	Mazielka. Sequence: 463125	MFSK	(PUK)
X06	12-10	1254	Mon	14683	Mazielka. Sequence: 364152	MFSK	(PUK)
X06	13-10	0809	Tue	13506	Mazielka. Sequence: 534216	MFSK	(PUK)
X06	13-10	1406	Tue	14547	Mazielka. Sequence: 645321	MFSK	(Danix)
X06	14-10	0737	Wed	13369	Mazielka. Sequence: 412356	MFSK	(PUK/AAI)
X06	14-10	0757	Wed	13419	Mazielka. Sequence: 465132	MFSK	(PUK)
X06	14-10	1659	Wed	12109	Mazielka. Sequence: 431625	MFSK	(Danix)
X06	15-10	0747		13448	Mazielka. Sequence: 162543	MFSK	(PUK)
X06	15-10	0801		13448	Mazielka. Sequence: 162543	MFSK	(PUK)
X06	15-10	1234		18575	Mazielka. Sequence: 352416	MFSK	(PUK)
X06	16-10	0829	Fri	14570	Mazielka. Sequence: 324615	MFSK	(PUK)
X06	16-10	0942	Fri	16103	Mazielka. Sequence: 645321	MFSK	(PUK)
X06	16-10	0947	Fri	18197	Mazielka. Sequence: 645321	MFSK	(PUK)
X06	16-10	1002	Fri	12215	Mazielka. Sequence: 361245	MFSK	(PUK)
X06	16-10	1013	Fri	12178	Mazielka. Sequence: 645321	MFSK	(AAI)
X06	16-10	1104	Fri	16103	Mazielka. Sequence: 645321	MFSK	(PUK)

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X06	16-10	1106	Fri	18197	Mazielka. Sequence: 645321	MFSK	(PUK)
X06	19-10	0750	Mon	14377	Mazielka. Sequence: 432516	MFSK	(AAI/PUK)
X06	19-10	0805	Mon	14845	Mazielka. Sequence: 641523	MFSK	(AAI)
X06	19-10	0814	Mon	13452	Mazielka. Sequence: 165324	MFSK	(PUK)
X06	19-10	1559	Mon	13395	Mazielka. Sequence: 532614	MFSK	(Danix)
X06	20-10	0757	Tue	11462	Mazielka. Sequence: started as 165432 and ended with 165423	MFSK	(PUK)
X06	21-10	1107	Wed	14650	Mazielka. Sequence: 215346	MFSK	(PUK)
X06	22-10	0955		13506	Mazielka. Sequence: 164532	MFSK	(PUK)
X06	22-10	1413		11561	Mazielka. Sequence: 263145	MFSK	(PUK)
X06	22-10	1530		10535	Mazielka. Sequence: 564213	MFSK	(Danix)
X06	26-10	0902	Mon	13423	Mazielka. Sequence: 421635	MFSK	(PUK)
X06	26-10	0937	Mon	16117	Mazielka. Sequence: 463125	MFSK	(PUK)
X06	26-10	0951	Mon	9923	Mazielka. Sequence: 431625	MFSK	(PUK)
X06	26-10	1244	Mon	15656	Mazielka. Sequence: 364152	MFSK	(PUK)
X06	26-10	1929	Mon	8131	Mazielka. Sequence: 164532	MFSK	(Danix/Avar e)
X06	27-10	1027	Tue	16317	Mazielka. Sequence: 612534	MFSK	(PUK)
X06	27-10	1036	Tue	16317	Mazielka	MFSK	(CA2)
X06	27-10	1043	Tue	13510	Mazielka. Sequence: 612534	MFSK	(PUK)
X06	27-10	1051	Tue	13510	Mazielka. Sequence: 612534	MFSK	(JkC)
X06	27-10	1123	Tue	13420	Mazielka. Sequence: 534216	MFSK	(PUK)
X06	28-10	0751	Wed	18177	Mazielka. Sequence: 164253	MFSK	(AAI/Danix)
X06	28-10	1133	Wed	18660	Mazielka. Sequence: 621543	MFSK	(AAI/PUK)
X06	30-10	1104	Fri	12224	Mazielka. Sequence: 615243	MFSK	(AB)
X06b	28-9	1835	Mon	12108	Mazielka. Sequence: 1--6--	MFSK	(Sch)
X06b	3-10	0500	Sat	11464	Mazielka. Sequence: 1--6--	MFSK	(AB)
X06b	3-10	0501	Sat	9064	Mazielka. Sequence: 1--6--	MFSK	(AB)
X06b	4-10	1632		13376	Mazielka. Sequence: 1--6--	MFSK	(Sch)
X06b	10-10	0629	Sat	13368	Mazielka. Sequence: 1--6-- followed by test tones at 0632 UTC	MFSK	(AB)
X06b	12-10	1818	Mon	10243	Mazielka. Sequence: 1--6--	MFSK	(Sch)
X06b	13-10	1406	Tue	16338	Mazielka. Sequence: 1--6--	MFSK	(Sch)
X06b	13-10	1838	Tue	10343	Mazielka. Sequence: 6	MFSK	(Danix)
XPA	1-10	1900	Thu	9362	msg	MFSK-20/10Bd	(HFD)
XPA	1-10	1900		9362	304 304 304 000 05739 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	1-10	1920	Thu	8062	msg	MFSK-20/10Bd	(HFD)
XPA	1-10	1920		8062	304 304 304 000 05739 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	1-10	1940	Thu	7462	msg	MFSK-20/10Bd	(HFD)
XPA	1-10	1940		7462	304 304 304 000 05739 00001 00000 10140	MFSK-20/10Bd	(AB/MPJ)
XPA	3-10	0600	Sat	10868	msg	MFSK-20/10Bd	(HFD)
XPA	3-10	0600	Sat	10868	813 813 813 000 01424 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	3-10	0620	Sat	12168	msg	MFSK-20/10Bd	(HFD)
XPA	3-10	0620	Sat	12168	813 813 813 000 01424 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	3-10	0640	Sat	13368	813 813 813 000 01424 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	3-10	0640	Sat	13368	msg	MFSK-20/10Bd	(HFD)
XPA	6-10	1900	Tue	9362	304 1 00767 00267 22170 ... 83042 32827 17437	MFSK-20/10Bd	(AB)
XPA	6-10	1920	Tue	8062	304 1 00767 00267 22170 ... 83042 32827 17437	MFSK-20/10Bd	(AB)
XPA	6-10	1940	Tue	7462	304 1 00767 00267 22170 ... 83042 32827 17437	MFSK-20/10Bd	(AB)
XPA	7-10	0600	Wed	10868	813 813 813 000 06515 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	7-10	0620	Wed	12168	813 813 813 000 06515 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	7-10	0640	Wed	13368	813 813 813 000 06515 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	8-10	1900		9362	304 1 00767 00267 22170 ... 83042 32827 17437	MFSK-20/10Bd	(AB)
XPA	8-10	1920		8062	304 1 00767 00267 22170 ... 83042 32827 17437	MFSK-20/10Bd	(AB)
XPA	8-10	1940		7462	304 1 00767 00267 22170 ... 83042 32827 17437	MFSK-20/10Bd	(AB)
XPA	10-10	0600	Sat	10868	813 813 813 000 02647 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10-10	0620	Sat	12168	813 813 813 000 02647 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10-10	0640	Sat	13368	813 813 813 000 02647 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13-10	1900	Tue	9362	304 304 304 000 01885 00001 00000 10140	MFSK-20/10Bd	(AB/MPJ)
XPA	13-10	1920	Tue	8062	304 304 304 000 01885 00001 00000 10140	MFSK-20/10Bd	(AB/MPJ)
XPA	13-10	1940	Tue	7462	304 304 304 000 01885 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14-10	0600	Wed	10868	813 1 04521 00175 12055 ... 52569 29234 51416	MFSK-20/10Bd	(AB)
XPA	14-10	0620	Wed	12168	813 1 04521 00175 12055 ... 52569 29234 51416	MFSK-20/10Bd	(AB)
XPA	14-10	0640	Wed	13368	813 1 04521 00175 12055 ... 52569 29234 51416	MFSK-20/10Bd	(AB)



Code	Date	UTC	Day	Freq	Details	Mode	Ctrb
XPA	15-10	1900		9362	304 304 304 000 03970 00001 00000 10110	MFSK-20/10Bd	(AB/MPJ)
XPA	15-10	1920		8062	304 304 304 000 03970 00001 00000 10110	MFSK-20/10Bd	(AB/MPJ)
XPA	15-10	1940		7462	304 304 304 000 03970 00001 00000 10110	MFSK-20/10Bd	(AB)
XPA	17-10	0600	Sat	10868	813 1 04521 00175 12055 ... 52569 29234 51416	MFSK-20/10Bd	(AB)
XPA	17-10	0620	Sat	12168	813 1 04521 00175 12055 ... 52569 29234 51416	MFSK-20/10Bd	(AB)
XPA	17-10	0640	Sat	13368	813 1 04521 00175 12055 ... 52569 29234 51416	MFSK-20/10Bd	(AB)
XPA	21-10	0600	Wed	10868	813 813 813 000 04183 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	21-10	0620	Wed	12168	813 813 813 000 04183 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	21-10	0640	Wed	13368	813 813 813 000 04183 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	24-10	0600	Sat	10868	813 813 813 000 05145 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	24-10	0620	Sat	12168	813 813 813 000 05145 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	24-10	0640	Sat	13368	813 813 813 000 05145 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	28-10	0600	Wed	10868	813 813 813 000 01542 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	28-10	0620	Wed	12168	813 813 813 000 01542 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	28-10	0640	Wed	13368	813 813 813 000 01542 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	29-10	1900		9362	304 304 304 000 01318 00001 00000 10140	MFSK-20/10Bd	(AB/MPJ)
XPA	29-10	1920		8062	304 304 304 000 01318 00001 00000 10140	MFSK-20/10Bd	(AB/MPJ)
XPA	29-10	1940		7462	304 304 304 000 01318 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	31-10	0600	Sat	10868	813 813 813 000 04214 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	31-10	0620	Sat	12168	813 813 813 000 04214 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	31-10	0620	Sat	13368	813 813 813 000 04214 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA2	2-10	1400	Fri	17264	06210 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	2-10	1420	Fri	16114	06210 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	2-10	1440	Fri	14828	06210 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	2-10	1500	Fri	16147	02481 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	2-10	1520	Fri	14947	02481 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	2-10	1540	Fri	14447	02481 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	3-10	1400	Sat	17264	02422 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	3-10	1400	Sat	17462	msg	MFSK-16/20Bd	(HFD)
XPA2	3-10	1420	Sat	16114	02422 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	3-10	1420	Sat	16114	msg	MFSK-16/20Bd	(HFD)
XPA2	3-10	1440	Sat	14828	msg	MFSK-16/20Bd	(HFD)
XPA2	3-10	1440	Sat	14828	02422 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	4-10	1500		16147	08217 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	4-10	1500		16338	04488 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	4-10	1520		14538	04488 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	4-10	1520		14947	08217 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	4-10	1540		13538	04488 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	4-10	1540		14447	08217 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	6-10	1500	Tue	16338	00962 00093 24053 ... 71140 70692 22006	MFSK-16/20Bd	(AB)
XPA2	6-10	1500	Tue	16338	msg	MFSK-16/20Bd	(HFD)
XPA2	6-10	1520	Tue	14538	00962 00093 24053 ... 71140 70692 22006	MFSK-16/20Bd	(AB)
XPA2	6-10	1520	Tue	14538	msg	MFSK-16/20Bd	(HFD)
XPA2	6-10	1540	Tue	13538	msg	MFSK-16/20Bd	(HFD)
XPA2	6-10	1540	Tue	13538	00962 00093 24053 ... 71140 70692 22006	MFSK-16/20Bd	(AB)
XPA2	9-10	0700	Fri	16284	i.p.	MFSK-16/20Bd	(AB)
XPA2	9-10	1400	Fri	17462	07485 00067 98568 ... 80838 85035 52154	MFSK-16/20Bd	(AB)
XPA2	9-10	1420	Fri	16114	07485 00067 98568 ... 80838 85035 52154	MFSK-16/20Bd	(AB)
XPA2	9-10	1440	Fri	14828	07485 00067 98568 ... 80838 85035 52154	MFSK-16/20Bd	(AB/MPJ)
XPA2	9-10	1500	Fri	16147	01327 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	9-10	1520	Fri	14947	01327 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	9-10	1540	Fri	14447	01327 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	10-10	1400	Sat	17462	07485 00067 98568 ... 80838 85035 52154	MFSK-16/20Bd	(AB)
XPA2	10-10	1420	Sat	16114	07485 00067 98568 ... 80838 85035 52154	MFSK-16/20Bd	(AB)
XPA2	10-10	1440	Sat	14828	07485 00067 98568 ... 80838 85035 52154	MFSK-16/20Bd	(AB)
XPA2	11-10	1500		16147	04962 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	11-10	1500		16338	00962 00093 24053 ... 71140 70692 22006	MFSK-16/20Bd	(AB/MPJ)
XPA2	11-10	1520		14538	00962 00093 24053 ... 71140 70692 22006	MFSK-16/20Bd	(AB/MPJ)
XPA2	11-10	1520		14947	04962 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	11-10	1540		13538	00962 00093 24053 ... 71140 70692 22006	MFSK-16/20Bd	(AB/MPJ)
XPA2	11-10	1540		14447	04962 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13-10	0700	Tue	16284	null msg	MFSK-16/20Bd	(AB)

Code	Date	UTC	Day	Freq	Details	Mode	Ctrl
XPA2	13-10	1500	Tue	16338	08128 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13-10	1520	Tue	14538	08128 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13-10	1540	Tue	13528	08128 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16-10	0700	Fri	16284	03885 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16-10	1520	Fri	14947	02037 00135 53084 87410 42966 ... 79033 86031 02985 49259 65644	MFSK-16/20Bd	(MPJ)
XPA2	17-10	1400	Sat	17462	05952 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17-10	1420	Sat	16114	05952 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17-10	1440	Sat	14828	05952 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18-10	1500		16338	05436 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18-10	1500		16147	02037 00135 53084 ... 02985 49259 65644	MFSK-16/20Bd	(AB)
XPA2	18-10	1520		14947	02037 00135 53084 ... 02985 49259 65644	MFSK-16/20Bd	(AB)
XPA2	18-10	1520		14538	05436 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18-10	1540		13538	05436 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18-10	1540		14447	02037 00135 53084 ... 02985 49259 65644	MFSK-16/20Bd	(AB)
XPA2	20-10	0700	Tue	16284	00475 00121 31708 ... 81713 35824 02523	MFSK-16/20Bd	(AB)
XPA2	20-10	0720	Tue	18184	00475 00121 31708 ... 81713 35824 02523	MFSK-16/20Bd	(AB)
XPA2	20-10	0740	Tue	19584	00475 00121 31708 ... 81713 35824 02523	MFSK-16/20Bd	(AB)
XPA2	20-10	1500	Tue	16338	08167 00069 97215 ... 62409 22327 15614	MFSK-16/20Bd	(AB)
XPA2	20-10	1520	Tue	14538	08167 00069 97215 ... 62409 22327 15614	MFSK-16/20Bd	(AB)
XPA2	20-10	1540	Tue	13528	08167 00069 97215 ... 62409 22327 15614	MFSK-16/20Bd	(AB)
XPA2	20-10	1900	Tue	9362	304 1 07735 00211 81051 09085 54217 ... 40308 54396 40687 08434 17005	MFSK-16/20Bd	(MPJ)
XPA2	20-10	1920	Tue	8062	304 1 07735 00211 81051 09085 54217 ... 40308 54396 40687 08434 17005	MFSK-16/20Bd	(MPJ)
XPA2	20-10	1940	Tue	7462	304 1 07735 00211 81051 09085 54217 ... 40308 54396 40687 08434 17005	MFSK-16/20Bd	(MPJ)
XPA2	23-10	0700	Fri	16284	00475 00121 31708 ... 81713 35824 02523	MFSK-16/20Bd	(AB)
XPA2	23-10	0720	Fri	18184	00475 00121 31708 ... 81713 35824 02523	MFSK-16/20Bd	(AB)
XPA2	23-10	0740	Fri	19584	00475 00121 31708 ... 81713 35824 02523	MFSK-16/20Bd	(AB)
XPA2	23-10	1400	Fri	17462	09192 00049 71525 ... 12251 04373 00767	MFSK-16/20Bd	(AB)
XPA2	23-10	1420	Fri	16114	09192 00049 71525 ... 12251 04373 00767	MFSK-16/20Bd	(AB)
XPA2	23-10	1440	Fri	14828	09192 00049 71525 ... 12251 04373 00767	MFSK-16/20Bd	(AB)
XPA2	23-10	1500	Fri	16147	01848 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	23-10	1520	Fri	14947	01848 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	23-10	1540	Fri	14447	01848 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	24-10	1400	Sat	17462	08490 00000 00000 10140	MFSK-16/20Bd	(AB)
XPA2	24-10	1420	Sat	16114	08490 00000 00000 10140	MFSK-16/20Bd	(AB)
XPA2	24-10	1440	Sat	14828	08490 00000 00000 10140	MFSK-16/20Bd	(AB)
XPA2	25-10	1500		16147	07228 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	25-10	1500		16338	08167 00069 97215 40389 ... 62409 22327 15614	MFSK-16/20Bd	(AB)
XPA2	25-10	1520		14947	07228 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	25-10	1520		14538	08167 00069 97215 40389 ... 62409 22327 15614	MFSK-16/20Bd	(AB)
XPA2	25-10	1540		13538	08167 00069 97215 40389 ... 62409 22327 15614	MFSK-16/20Bd	(AB)
XPA2	25-10	1540		14447	07228 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	27-10	0700	Tue	16284	09956 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	27-10	0720	Tue	18184	09956 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	27-10	0740	Tue	19584	09956 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	27-10	1500	Tue	16338	08167 00069 97215 40389 ... 62409 22327 15614	MFSK-16/20Bd	(AB)
XPA2	27-10	1520	Tue	14538	08167 00069 97215 40389 ... 62409 22327 15614	MFSK-16/20Bd	(AB)
XPA2	27-10	1540	Tue	13538	08167 00069 97215 40389 ... 62409 22327 15614	MFSK-16/20Bd	(AB)
XPA2	27-10	1900	Tue	9362	304 304 304 000 02338 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	27-10	1920	Tue	8062	304 304 304 000 02338 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	27-10	1940	Tue	7462	304 304 304 000 02338 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	30-10	0700	Fri	16284	08946 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	30-10	0720	Fri	18184	08946 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	30-10	0740	Fri	19584	08946 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	30-10	1400	Fri	17462	00115 00089 18917 ... 88131 10646 20230	MFSK-16/20Bd	(AB)
XPA2	30-10	1420	Fri	16114	00115 00089 18917 ... 88131 10646 20230	MFSK-16/20Bd	(AB/MPJ)
XPA2	30-10	1440	Fri	14828	00115 00089 18917 ... 88131 10646 20230	MFSK-16/20Bd	(AB)
XPA2	30-10	1500	Fri	16147	08530 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	30-10	1520	Fri	14947	08530 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	30-10	1540	Fri	14447	08530 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	31-10	1400	Sat	17462	00115 00089 18917 ... 88131 10646 20230	MFSK-16/20Bd	(AB/MPJ)
XPA2	31-10	1420	Sat	16114	00115 00089 18917 ... 88131 10646 20230	MFSK-16/20Bd	(AB/MPJ)
XPA2	31-10	1440	Sat	14828	00115 00089 18917 ... 88131 10646 20230	MFSK-16/20Bd	(AB/MPJ)



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AnEur	Anonymous Europe	JPL-Sib	JPL via remote rx Siberia
Avare	Avare, Russia	JV	John Volpato, AUS
BR	Brian Rogers, UK	MPJ	Jim, SW England
CA2	Chris Albert	OWL	Owl, UK
CK	Costas, Southern Europe	PPA	Peter Poelstra, Netherlands
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DJPr	DJpeter via Radioscanner/Priyom	RP-MD	Ron, MD, USA
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GHn	Gary Hagermann, UK	WP3	Wolfgang Palmberger

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

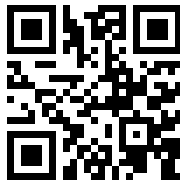
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878 27364 92836 89428 61288 24982 35598 32764 81276 81  
886 48932 70987 32123 49817 26346 81287 65491 87364 81  
721 75654 55656 12737 72727 72727 91918 63473 67867 76  
723 87629 37677 32612 53498 71296 28756 18276 98716 87  
7269 76329 74698 76857 98678 27601 56701 57601 73648 1  
591 87864 87265 96710 27638 12673 84769 28743 98127 5  
63298 75698 27465 87326 49876 28376 81273 98615 81  
67 87432 74328 78674 29867 32867 67867 86786 43266 43  
67 68768 68763 34234 34238 68768 62342 48273 48768 23  
936 98432 32432 86743 43286 43286 43286 43286 43286 43  
743 86743 86743 39867 32867 86743 43286 43286 43243 86  
731 86743 86743 86743 86743 86743 86743 86743 86743 4  
503 98798 98754 98754 98754 98754 29867 67543 67986 60  
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867 43298 65656 56756 56123 32143 14321 32143 14321 321  
867 43298 58765 76587 58765 76587 58765 76587 58756 76  
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