

670	27364	92836	09428	61208	74982	36498	32764	81276	01
4986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	70
6723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
591	87364	87265	96710	27630	12673	84769	28743	98127	50
658	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43206	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
676	87698	69876	87698	69876	87612	12341	34867	86798	632
867	43298	65656	56756	56123	32143	14321	32143	14321	321
741	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 #229, October 216

Editor: Ary Boender email: udxf@udxf.nl

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

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

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

Exhibition in Berlin

The special exhibition "AUSSTELLUNG RÜCK- UND ZUWANDERUNG IN DIE DDR 1949 BIS 1989" (Change, Return and Immigration in the GDR 1949 to 1989) tells the hardly known history of those people who immigrated from the Federal Republic to the GDR. Most of the roughly 500,000 people who crossed the inner-German frontier from West to East chose this route before the Wall for reasons that are often the cause of migration: they returned to their families and friends, fell in love, fled prosecution or seeking work and a better life. Only a minority went this way out of political conviction.

The exhibition takes this little-respected aspect of German-German history to life as an example of the life stories of prominent and unknown expats. At the same time, it is deepening on the encompassing themes of West-East migration, on the German-German propaganda campaigns, the everyday life in the shelters, the experiences of the immigrants in the GDR society and the often crucial role of the Ministry of State Security (STASI).

During the exposition one or more recordings of East/West German numbers station from the archive of N&O's editor, Ary Boender, will be played on a Philips/Grundig Ocean Boy, this kind of radio was used by Christel and Gunter Guillaume, two STASI agents living in West Germany.

Ausstellung Rück- Und Zuwanderung In Die DDR 1949 Bis 1989

Running from: 4 November 2016 to 17 April 2017

Address: Erinnerungsstätte Notaufnahmelager Marienfelde
Stiftung Berliner Mauer
Marienfelder Allee 66/80, 12277 Berlin, Germany

The Grundig Ocean Boy Picture comes from

<https://www.staff.science.uu.nl/~tel00101/FotoAlbum/Radio-Corner/Sets/GrunOc204.htm>



Secret Communications Exhibition



Following the enormous success of the exhibition Secret Communications, back in the winter of 2013, Crypto Museum has once again teamed up with the Foundation for German Communication in Duivendrecht (near Amsterdam, Netherlands) for the exhibition Secret Communications 2. This exclusive exhibition will be open to the general public on three Saturdays only:

Open on Saturday 12 November 2016, Saturday 19 November 2016, and Saturday 3 December 2016 from 10:00 to 17:00 hrs local time and admission is free.

Address: Kloosterstraat 23-25, 1115 BJ Duivendrecht, Netherlands

Crypto Museum: <http://cryptomuseum.com/events/2016/sc/index.htm#overview>

Foundation for German Communication: <http://www.cd vandt.org>

Info about the exhibition: <http://cdvandt.org/secret-communications-2.htm#BC>

Also interesting is the permanent exhibition "Secret War" in the Imperial War Museum in London.

<http://www.iwm.org.uk/>

Secret War explores the undercover world of espionage, covert operations and the work of Britain's Special Forces. Discover how threats both at home and abroad were dealt with through the strategies and techniques of the men and women behind some of the most secret espionage missions of the last century.

"The History of the Radio Intelligence Division Before and During World War II" can be found here:

<http://users.isp.com/danflan/sterling/ridhist.pdf>

Hanoi Hannah

Trinh Thi Ngo, better known to U.S. servicemen as "Hanoi Hannah", died on Sept. 30. Ms Ngo was a radio propagandist for Radio Hanoi during the Vietnam War. She used the name Thu Huong on her radio shows. The soldiers nicknamed her Hanoi Hannah. Her transmissions often started with "This is Thu Huong calling American servicemen in South Vietnam". Her program consisted of popular American pop music and Vietnamese propaganda. She announced American battlefield defeats and casualties and played music of Pete Seeger, Joan Baez and other antiwar singers and aired statements from American activists. In one broadcast she said "Defect, G.I. It is a very good idea to leave a sinking ship. You know you cannot win this war." Ms Ngo was 87 years old.

This is how she sounded: https://www.youtube.com/watch?v=N6JH8mYV_VU

VOICE STATIONS



E06

5186 kHz, 06-10, 2030 UTC

Started as M14, then switched to E06

891 569 63

14259 22676 32782 32782 76723 89409 12215 74326 64070 90235

38085 59543 12319 74238 36664 12256 18841 73311 98089 12250

57878 87897 79879 99990 98878 89889 87879 56787 09000 76578

87878 89898 89890 98798 65656 54545 56566 56578 87876 99877

38085 59543 12319 74238 36664 12256 18841 73311 98089 12250

87878 89898 89890 98798 65656 54545 56566 56578 87876 99877

32333 43433 54545

569 63 00000

5240 kHz, 16-10, 2300 UTC / 5825 kHz, 17-10, 0000 UTC

376 613 82 =

76251 82420 63321 84762 90001 63191 53772 48291 80345 76619
37281 44882 00655 27163 85524 04072 74541 73392 56012 31062
63880 93652 61710 87201 85491 63881 42608 90701 40027 55217
63381 93671 53122 70436 62117 70239 55411 61901 63888 92441
53790 84151 39959 00466 72261 84255 05003 77282 56201 60942
52771 43902 33735 72431 88465 72209 00512 31210 62091 50544
60011 74109 62420 52883 74507 54637 23110 63908 52260 74091
52081 43309 70551 10103 40622 82146 70336 42801 63035 62091
76351 82240
613 82 00000

18425/20230 kHz, 20-10/21-10, 0600/0700 UTC

186 425 103

74424 56000 24727 63058 05438 82418 74414 03676 90470 22207
71393 03273 84500 85392 16458 94096 65271 18084 02140 23755
70488 82229 80238 36569 23404 77260 38815 02310 95209 45830
99596 46976 77685 30807 71733 65310 64547 75737 22833 19747
64911 85946 53226 55466 97333 92471 84386 86255 37851 86017
97448 30852 20462 13117 82763 04470 13489 51685 86429 95178
20255 08159 64721 79847 77515 03400 82382 59315 50083 39565
15693 17489 45074 65108 46258 34063 94831 80127 56469 05529
77745 49217 62546 54181 88016 14044 46129 29792 56797 22802
70333 33658 94153 18758 91219 19688 12673 55067 00608 52235
35372 28040 61182
425 103 00000

5186 kHz, 20-10, 2030 UTC

891 569 63

14259 22676 32782 32782 76723 89409 12215 74326 64070 90235
38085 59543 12319 74238 36664 12256 18841 73311 98089 12250
57878 87897 79879 99990 98878 89889 87879 56787 09000 76578
87878 89898 89890 98798 65656 54545 56566 56578 87876 99877
38085 59543 12319 74238 36664 12256 18841 73311 98089 12250
87878 89898 89890 98798 65656 54545 56566 56578 87876 99877
32333 43433 5 sudden sign off

5430/5560 kHz, 29-10, 0800/0900 UTC

171 613 82 =

76251 82420 63321 84762 90001 63191 53772 48291 80345 76619
37281 44882 00655 27163 85524 04072 74541 73392 56012 31062
63880 93652 61710 87201 85491 63881 42608 90701 40027 55217
63381 93671 53122 70436 62117 70239 55411 61901 63888 92441
53790 84151 39959 00466 72261 84255 05003 77282 56201 60942
52771 43902 33735 72431 88465 72209 00512 31210 62091 50544
60011 74109 62420 52883 74507 54637 23110 63908 52260 74091
52081 43309 70551 10103 40622 82146 70336 42801 63035 62091
76351 82240
613 82 00000



E07

9064/10264/11464 kHz, 01-10/02-10, 0600/0620/0640 UTC

024 024 024 1 672 121 672 121

28388 26540 87795 39211 65179 63271 09586 93353 47538 89372
66362 07259 02757 71836 81346 66636 38654 52491 02078 23062
88233 63582 90754 62664 39584 72987 09310 96463 88673 90702
49028 79745 24875 18047 00178 49949 75336 64281 11498 92605
83287 19167 09954 90422 70262 22136 49175 13598 32345 01985
15959 12477 64159 44137 11950 69390 69291 96084 43271 53736
18544 63550 09989 50106 32376 52075 61166 26258 32630 65883
07818 25822 46037 64324 18634 60747 15395 51918 74823 91156
37764 13658 32654 50245 12023 64807 82047 00654 48736 55227
09137 47130 35582 83595 36303 17469 69420 48556 64935 05918
14394 26252 08310 03953 37866 64787 76878 26189 26211 04701
31109 18287 82901 09476 38760 97462 29270 67464 94029 12925
31123
000 000

13376/12176/10776 kHz, 02-10, 1700/1720/1740 UTC

317 317 317 1 551 51 551 51

05284 00927 25779 24313 33353 41121 57138 30935 51959 75188
25989 54714 81685 92486 34592 97248 44448 52471 74412 11745
23535 53789 92770 99099 29942 24401 28656 31436 58781 36008
29952 41177 24552 32255 38830 55237 98357 78261 48746 10844
15842 86225 53194 11594 57262 85424 43330 38990 66212 10142
45948
000 000

13376/12176/10776 kHz, 05-10/09-10/12-10/16-10, 1700/1720/1740 UTC

317 317 317 1 298 95 298 95

02086 81514 56996 16535 02102 87786 65232 61419 60956 18827
89853 00876 85873 21295 49025 00350 40672 40174 88307 15957
84929 42514 72830 27551 19201 96863 01106 12979 26142 14716
75702 51972 94146 07997 06488 22760 53285 11768 02080 95162
80627 30183 68661 18885 11787 67557 95549 95749 65611 63393
13061 44005 34096 58480 13324 61562 31202 05844 44315 31157
88096 60500 24096 92087 58997 77111 13157 53713 20910 62032
53315 80785 48723 21435 80432 80505 42721 81200 39328 62972
29025 12900 15969 72605 06613 06575 97512 72360 90756 56958
47759 40555 78344 44399 52235
000 000

11539/10139/8139 kHz, 05-10/10-10/12-10, 1900/1920/1940 UTC

511 511 511 1 324 51 324 51

48299 09182 07248 62654 41537 94121 47963 58969 94669 44929
90588 74250 39811 86050 09612 78213 57411 35199 58006 99627
74015 97301 47958 39930 21064 05669 53637 59055 40256 43189
25064 30379 66158 94267 99518 48998 49336 88685 07239 14531
38656 13446 01975 16943 30806 08274 12833 94000 15839 27211
22577
000 000

11539/10139/8139 kHz, 31-10, 1900/1920/1940 UTC

511 511 511 1 176 64 176 64
71422 51497 73662 58092 68546 97537 84544 31527 00897 67197
08645 87789 90562 81899 03446 62896 58082 33270 81760 33644
59706 90528 15837 70968 43119 10540 36150 84797 38487 84115
81884 19910 67186 08078 73708 97824 00606 60263 02712 73740
77851 01460 48820 11666 37046 50118 32816 96664 78744 25762
08190 22157 55861 61272 88988 64804 86436 49539 17826 82262
22955 80497 20444 49532
000 000



E07a

8144/6944/5744 kHz, 12-10, 2000/2020/2040 UTC

197 197 197 1 61219 4838 65 4838 65
68870 48870 17079 17749 02309 64343 25356 03348 94229 23291
64082 20511 44289 81346 92922 97001 52050 14274 82298 55957
02703 68601 00167 85656 52998 03568 76146 59352 67334 96624
90740 95719 54308 39624 97342 39647 37962 71973 38079 88649
60185 89376 70603 99281 02260 32908 58592 89616 96368 40774
39987 34249 37008 62169 04098 47209 17546 25196 86700 50730
04618 99118 52234 44080 01551
000 000

6788/7488/8188 kHz, 13-10, 0430/0450/0510 UTC

741 741 741 1 61219 4838 65 4838 65
68870 48870 17079 17749 02309 64343 25356 03348 94229 23291
64082 20511 44289 81346 92922 97001 52050 14274 82298 55957
02703 68601 00167 85656 52998 03568 76146 59352 67334 96624
90740 95719 54308 39624 97342 39647 37962 71973 38079 88649
60185 89376 70603 99281 02260 32908 58592 89616 96368 40774
39987 34249 37008 62169 04098 47209 17546 25196 86700 50730
04618 99118 52234 44080 01551
000 000



E11a

9399 kHz, 03-10/05-10, 0900 UTC

532/35 Attention
07734 24942 49108 82708 38932 02371 70689 96448 57980 33150
81054 69085 98381 52931 56153 27920 94295 87474 71976 00154
73177 94771 26207 99224 30628 87032 02302 56249 28338 00752
17876 05058 11617 63784 37401
Attention, rpt msg, out

9443 kHz, 03-10/04-10, 1205 UTC

469/36 Attention
66694 03972 32458 74852 18537 81031 33129 58692 17302 31744

22320 08151 44738 81353 23390 01718 33257 70794 64934 50086
30391 69620 66217 90476 67048 98995 45263 53921 00588 94718
78323 28435 38617 64423 18597 90989

Attention, rpt msg, out

8102 kHz, 04-10, 1045 UTC

575/36 Attention

05370 37783 04621 09023 01704 27639 14053 38338 64549 30131
87937 59153 34214 34809 04679 84390 27539 17321 99354 01681
48622 50509 66987 51634 85982 94593 73981 29101 91563 80837
97678 98798 24761 97088 26259 67588

Attention, rpt msg, out

8803 kHz, 05-10/06-10, 0930 UTC

276/38 Attention

49041 75935 04473 68562 72569 42195 64016 47293 99016 37506
03993 21150 56091 95062 25065 26866 62120 11871 21241 04214
53838 43553 85306 42720 58551 31376 02047 47672 31023 29609
29737 09018 84617 15244 95930 06650 81502 85346

Attention, rpt msg, out

7317 kHz, 06-10, 0530 UTC

643/37 Attention

19277 32437 74917 59498 47117 48152 15545 91926 28460 37987
92614 48417 35682 12671 38894 87823 94244 87372 70171 20359
01964 04788 52501 02744 93248 84676 65228 92875 76333 49504
67673 67605 63349 87187 10975 11085 82436

Attention, rpt msg, out

10800 kHz, 04-10/06-10, 0645 UTC

517/31 Attention

81780 95255 10505 97509 89554 60267 83097 35588 43436 54591
50742 22857 02047 58003 71786 40604 64200 46095 53446 43284
89087 58443 56573 03235 08759 36098 48214 92796 83155 81899
98292

Attention, rpt msg, out

10213 kHz, 08-10, 1705 UTC

392/38 Attention

83890 64718 99759 88431 62859 55784 83421 15352 01549 35156
73916 91218 67459 12376 55839 43051 48148 00901 36942 86854
71254 97103 52781 75304 97254 88578 44056 42003 76795 63532
03758 01349 60159 19364 30765 06524 32127 67575

Attention, rpt msg, out

8186 kHz, 08-10/09-10, 2005 UTC

369/38 Attention

45480 95342 44939 39724 95409 58518 16380 06379 19994 28528
18172 71928 74608 72105 33119 98570 02325 19921 47182 05999
82543 82340 16010 72304 50546 22586 31132 32209 35686 67325
60870 17727 90179 37014 94931 54222 94074 76153

Attention, rpt msg, out

10213 kHz, 10-10, 0745 UTC

261/38 Attention

01290 43816 66917 47520 65529 62750 12628 43984 25815 48901
30514 15060 16949 81866 88371 66850 37746 99253 20423 31312
39022 06406 69054 00156 58403 68073 03190 82284 11165 10653
07873 52790 75673 01030 08118 35208 25480 49700

Attention, rpt msg, out

15632 kHz, 11-10/12-10, 1300 UTC

135/31 Attention

20117 28555 33377 86383 60836 30837 73973 19830 17083 61310
41084 26275 21035 17603 99756 34305 43702 46360 14745 51938
60226 36578 38642 06847 88076 86491 37456 07780 22291 32505
75720

Attention, rpt msg, out

15915 kHz, 12-10/14-10, 0545 UTC

347/38 Attention

74422 11226 52711 39501 30056 26654 34409 65520 79158 07615
44717 10008 88918 81164 53216 14445 71858 44100 15222 62952
30681 11774 86312 68301 84663 25566 61439 55393 37705 83621
05871 93514 50163 31268 15447 07051 53209 55782

Attention, rpt msg, out

5844 kHz, 12-10/15-10, 1730 UTC

409/33 Attention

11891 77887 46467 39939 34161 16678 25524 19818 03625 15636
61992 39369 72972 26935 28609 96824 83617 52951 19403 85849
43986 57580 43142 68102 73065 30990 44503 00415 43273 03537
66968 30713 79407

Attention, rpt msg, out

14769 kHz, 13-10/15-10, 0710 UTC

490/33 Attention

24595 08307 49207 34424 00355 80425 08758 57182 53356 35982
70306 51007 39974 08923 99308 58996 29624 26161 46197 04893
28732 16074 88822 71479 11731 25423 60860 87174 84340 21820
83439 80414 17477

Attention, rpt msg, out

10330 kHz, 13-10, 1530 UTC

261/38 Attention

01290 43816 66917 47520 65529 62750 12628 43984 25815 48901
30514 15060 16949 81866 88371 66850 37746 99253 20423 31312
39022 06406 69054 00156 58403 68073 03190 82284 11165 10653
07873 52790 75673 01030 08118 35208 25480 49700

Attention, rpt msg, out

7317 kHz, 17-10/20-10, 0820 UTC

439/36 Attention

93251 54412 79599 94751 38861 30874 60261 62863 86804 20594
75180 86760 90463 78378 29227 06528 81565 77985 69803 87119
92617 09228 73012 28867 66705 10194 28069 71627 84698 35693
65698 87705 98106 45619 60011 03878

Attention, rpt msg, out

6397 kHz, 18-10/23-10, 1605 UTC

235/37 Attention

33683 91626 64128 57128 54657 97810 17941 13776 69776 42008
08899 39124 07663 57579 89828 27607 81270 23334 59006 96054
96731 80323 27176 59940 61415 18983 18698 57517 92938 64460
44808 64083 43858 89380 85228 95457 80378

Attention, rpt msg, out

9371 kHz, 20-10, 1730 UTC

413/32 Attention

35360 60434 28761 64016 48941 49546 83660 14364 18919 30979
46986 06901 68766 92528 41383 59933 27790 50769 00121 46743
82495 14533 48525 16578 44305 70846 78877 15622 32281 15365
36831 85117

Attention, rpt msg, out

15825 kHz, 21-10/23-10, 0730 UTC

353/35 Attention

78784 04802 30592 92787 59986 98285 54255 95350 60508 77875
85445 77764 79371 91653 31049 25974 00799 68085 89588 77131
99366 45797 02713 61434 33667 08817 61887 34043 71533 68680
69279 50786 05059 58329 15330

Attention, rpt msg, out

13873 kHz, 21-10/23-10, 1650 UTC

924/35 Attention

93266 93801 36717 33539 13538 54070 29841 98115 82285 31921
39939 33561 03635 82603 68814 06817 42849 26962 70690 79736
13067 31414 41301 31501 32952 13175 80436 24258 81764 68967
07614 11441 24818 95762 64982

Attention, rpt msg, out

20286 kHz, 24-10, 1225 UTC

525/36 Attention

48434 40031 82348 39502 86566 74449 94048 00617 19514 82533
29924 54259 15753 93256 14513 15337 89981 11698 57177 77707
44460 23284 25790 25776 60333 27034 98228 68655 78071 49806
88817 14718 47921 60602 86511 30389

Attention, rpt msg, out

13046 kHz, 25-10/29-10, 1345 UTC

918/38 Attention

10479 48365 04101 00444 50181 44054 80159 44862 50363 09623
38702 22427 44894 07789 44735 00014 66505 73901 73057 91604
90368 09614 79037 78884 61500 74272 62214 57422 15931 38421
71327 50560 96283 74097 55675 27364 33220 41845

Attention, rpt msg, out

10641 kHz, 25-10/28-10, 1450 UTC

442/31 Attention

66496 12368 44071 06838 27473 20966 16854 12404 80858 83109
17530 88656 14539 35811 24677 80020 19819 75722 02478 78011
99873 50628 37834 04181 64942 10192 94431 77564 07215 60647
42495

Attention, rpt msg, out

7850 kHz, 26-10/27-10, 0315 UTC

255/38 Attention

62153 98832 10815 09933 76199 00164 25079 47565 47496 76611
35587 75959 33716 14359 93454 14218 74089 45680 08447 76272
55362 59140 66436 80497 64154 12787 22076 17509 77071 35511
42206 87612 91862 14595 13954 95665 20127 70524

Attention, rpt msg, out

11405 kHz, 26-10/30-10, 0805 UTC

314/31 Attention

76749 51734 17568 89861 10088 34270 74006 95473 99304 74911
84135 32905 06349 43386 59715 25425 08236 27763 19592 33468
21937 98589 25563 01868 76839 95083 25563 35706 32229 18594
40022

Attention, rpt msg, out

10448 kHz, 26-10/30-10, 1625 UTC

974/40 Attention

98758 22034 92301 62xxx 80398 43482 55540 00038 10743 78980
45102 68568 56280 17735 13772 49206 24741 24403 33142 04020
96461 05796 90058 30976 26916 19432 66262 24114 97883 12674
11889 99769 17092 48971 95924 89796 08436 42211 54537 37036

Attention, rpt msg, out

10302 kHz, 27-10/29-10, 1300 UTC

585/34 Attention

93652 14716 94336 89837 26540 14684 37423 12507 84236 66163
27230 17179 58051 61896 15424 87326 12541 82554 72733 19646
64480 58663 59315 74187 18079 56765 99398 33351 72656 62566
83767 76546 55735 87558

Attention, rpt msg, out



E17z

14260/12930 kHz, 06-10/13-10, 0800/0810 UTC

674 983 5 17099 94961 35836 65906 77233 983 5 00000

14260/12930 kHz, 20-10/27-10, 0800/0810 UTC

674 938 5 07931 98755 84636 45752 64655 938 5 00000



E25

6140 kHz, 11-10, 1030 UTC

672 4022 6031 4967 8171 2474 7876 2781 5339

440hz beeps present at some points. Windows 7 sound at the end, along with a test count from 0-8. Finally, the callsign is repeated again a couple times.

6140 kHz, 12-10, 0800/0845 UTC

169 169 169 169 169 169 169 169 169

Message, message, message

3046 2702 8705 5591 2702 5705 3206

Rebeat, rebat, rebat

3046 2702 8705 5591 2702 5705 3206

End of message. End of transmission

169 169 169

6140 kHz, 12-10, 1030 UTC

672 672 672 672 672 6 2 6 stops

169 169 169 169 169 169 169 169 169

Message, message, message

3046 2702 8705 5591 2702 5705 3206

Rebeat, rebat, rebat

3046 2702 8705 5591 270 5705 3206

End of message. End of Transmission

6140 kHz, 12-10, 1037 UTC

672 672 672 (repeated)

Message, message, message

4022 6031 4967 8171 2474 7876 2781 5339

Rebeat, rebat, rebat

4022 6031 4967 8171 2474 7876 2781 5339

End of message. End of Transmission

Windows 7 shutdown sounds at the end.

6140 kHz, 18-10, 1030 UTC

672 4022 6031 4967 1897 4574 7876 2781 5339

When repeating the message, it repeats until the second last group. After a long break, it sends Rebeat Rebeat Rebeat and message repeat correctly

6140 kHz, 19-10, 0800 UTC

364 3 [...] Message, message

6240 kHz, 19-10, 0845 UTC

Message sent twice. Windows 7 logon / logoff sounds before the transmission

Message: 169 3046 2702 8705 5591 2702 5705 3206

6140 kHz, 30-10, 0730 UTC

250 250 250 (repeated)

Message, message, message

7345 4070 1360 0642 7435 4406 1360

Rebeat, rebat, rebat

7345 4070 1360 0642 7435 4406 1360

End of message. End of transmission

Note: serial number should be 5070 instead of 4070
The full transmission is sent 3 times.

6140 kHz, 31-10, 0745 UTC

250 (repeated)

Message: 7345 4070 1360 0642 7435 4406 1360



G06

5197 kHz, 07-10, 2130 UTC. G06 sent instead of E06

634 569 63

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

5934 kHz, 13-10, 1830 UTC

579 391 60

56327 21940 73218 64184 47458 43252 32589 28474 71904 56483
34593 39453 04716 54718 94871 52894 24595 12421 48723 89248
45455 45454 45454 34545 35345 35454 35454 32454 23434 24334
56567 87876 34543 76765 34355 34543 34543 65656 24344 34343
34322 65656 34343 67656 87878 34343 67676 35435 13231 32323
63453 85958 74287 63513 53612 15879 74843 47329 94872 47426
391 60 00000

5442 kHz, 14-10, 1930 UTC

947 317 90

37839 35787 98273 60187 16202 95625 31691 52538 61025 22567
93296 67423 40968 16891 63781 34820 04842 60491 75924 04594
77878 46766 09098 78643 09548 46677 90906 89898 56566 67677
76748 84848 84877 16891 63781 34820 04842 87874 78788 78888
93296 67423 40968 16891 63781 34820 04842 60491 75924 56784
09548 46677 90906 89898 56566 67677 23445 34344 45454 34344
35787 98273 60187 16202 95625 46565 43434 89798 54546 78788
76748 84848 84877 16891 34567 34820 04842 87874 78788 78888
68768 76876 58746 58764 87564 85764 87567 64848 85748 84784
317 90 00000

G06 was replaced by M14 on 5943 kHz, 17-10, 1830 UTC

5442 kHz, 28-10, 1930 UTC

Windows sound at ca 1 minute after the start

947 149 52

12265 12965 47839 38654 84657 93453 72217 84393 24673 97564
21824 75643 84221 94647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49345 57538 92192 96785 21244 25674
21765 76354 83645 21234 97564 82133 27564 83234 75312 71211
25674 65374 67321 94884 53483 82521 41212 57333 85331 53234
25124 95735
149 52 00000

Besides the regular (null) messages, I copied also a number of tests

Freq	Date	UTC	Details
6810	3-10	0800	329 329 329 00000
4767	3-10	1641	111 111 111 00000
4767	3-10	1645	111 111 111 00000
4767	3-10	1649	111 111 111 00000
4767	3-10	1705	111 111 111 00000
4953	3-10	1740	111 111 111 00000
4953	3-10	1746	111 111 111 00000
4767	10-10	1618	111 111 111 00000 111 111 111 00000
4767	10-10	1622	111 111 111 000
4767	10-10	1635	11
4767	10-10	1709	111 111 11
4953	10-10	1715	111 00000
4953	10-10	1716	111 111 111
4953	10-10	1721	1
4953	10-10	1724	000 111 111 111 00000 1



S06

9496/6924 kHz, 07-10, 2000/2100 UTC

761 761 761 00000

The 2100 transmission had OFDM-112 mixed into the same audio feed, presumably from the same control center. S06 audio was modulating it. (Danix)

20312/16237 kHz, 20-10/21-10, 0830/0930 kHz

842 160 37

55424 15740 76322 56485 79585 86827 08224 98588 79551 16239
14799 87167 91511 73978 56388 75470 14387 93107 65548 37579
50108 15873 91477 84298 51802 78392 42195 67817 15829 14589
22917 57315 78598 84027 94057 72728 04117
160 37 0000



S06s

I copied operator chat before and after the transmissions on 9220/8270 kHz, 31-10, 0830/0840 UTC.
The message was a null message: 371 371 371 000

I recorded both frequencies from 0820 till the carrier was switched off at ca 0849 UTC.

Here is the transcript, with thanks to several Russian speaking radio friends.

9220 kHz, 0820-0830 UTC

Male operators saying:

Desyatyy - vo vneshneye upravleniye. = Number ten - to external control. (Russian)

Odin, dva, VMK. = One, two, VMK. (Russian)

Odin, dva - dlya nakala. = One, two - for heating up. (Russian)

Dva - dlya nakala. = Two - for heating up. (Russian)

Tochno. = Exactly. (Russian)

Odin. = One. (Ukrainian or Russian with Ukrainian accent)

Odin, desyat'. = One, ten. (Ukrainian or Russian with Ukrainian accent)

Then S06s started: 371 371 371 00000

Then the operator was heard again: Devyatnadsatyy - 82 70, perestraivayu. = 19th - 82 70, I am re-tuning. (Russian)

8270 kHz, 0840-0848 UTC

371 (S06s with a male voice in the background, unintelligible). (Russian)

Then S06s started: 371 371 371 00000

After S06s the operator says: Devyatnadsatyy, zamykayem. = 19th, we are closing. (Russian)

The recordings are available from the N&O website: <http://www.numbersoddities.nl/s.html>



S11a

9960 kHz, 04-10/07-10, 1020 UTC

421/40 Vnimanaye

85751 86758 84759 39595 20884 82881 01009 25856 93476 17145

95147 79110 59452 35015 63183 10207 57252 84746 12396 96575

41638 35837 54908 76918 45153 49452 64587 41857 01194 14684

12374 59796 30898 68244 93522 17873 20817 71888 24810 94624

Vnimanaye, rpt msg, konets

5358 kHz, 11-10/14-10, 0455 UTC

322/36 Vnimanaye

72856 80389 05200 13745 54664 39652 73545 41650 97043 30230

35424 15556 26753 09301 18938 89651 53643 17535 53339 39252

43045 25154 11242 75081 32456 92099 85783 78912 79861 47011

07391 16590 38695 60971 57652 60364

Vnimanaye, rpt msg, konets

7317 kHz, 25-10/28-10, 0915 UTC

487/36 Vnimanije

16434 21754 61103 89149 51825 88324 10918 81216 50662 39172

81264 57306 79101 19467 55083 63307 55389 45896 18573 22132

90447 71279 57793 00012 66406 18923 43737 21380 54646 79468

41053 82258 75304 87243 63791 99843

Vnimanije, rpt msg, konets



S28 - The Buzzer

Mode: USB

Frequency: 3216 & 4625 kHz

The Buzzer travels far. On 5 Oct at 1915 UTC it was audible on 4625 kHz at Freemans Reach, S.E. Australia with SIO 343 !

On 24-10, the buzzer was besides on 4625//6998 kHz also audible on the 2nd harmonic of 4625 kHz: 9250 kHz

Only a limited number of reports of S28, S30 and S32 this month:

02-10, 1641 UTC ZhUOZ 10816 VZMYeT 86644343

02-10, 1638 UTC ZhUOZ 83891 ZAKRYVANIYe 77263201

02-10, 1558 UTC ZhUOZ 32424 ISHIMOSTOK 09094948

02-10, 1557 UTC ZhUOZ 86607 GRIBOFUT 52918888

02-10, 1546 UTC ZhUOZ 98247 DUVROChAJ 47476831

02-10, 1349 UTC ZhUOZ 50654 ZhMOTOFON 60790078

02-10, 1338 UTC ZhUOZ 07678 BYKOMHAT 58216631

03-10, 1340 UTC ZhUOZ 56092 KLADChIK 65634935

03-10, 1338 UTC ZhUOZ 53779 BYeDOKURKA 21919162

07-10, 0814 UTC ZhUOZ 09680 VSTRYSKA 507030657



S30 - The Pip

Modes: CW (Pip), USB (messages)

Frequencies: 3756 kHz (night), 5448 kHz (day)

3756 kHz, 03-10, 1823 UTC DIya: Y8VM 6I2Ž 8CŠJ 27Š' N1DU ?3OB 78MV DEAY JH'J 12CI Kak slyšno? Kak slyšno? Priyom

6922 kHz, 06-10, 1358 UTC i.p. TsTsZhYuR VEAOP STDEK VEAOP STDEK VEAOP STDEK SchTsKhSN MUSHDKh TPBVY DUGKCh

ZhZhTsYuYu BKhUOYu TsTsAUI KYaPDB EZhDTO ShchIZhNO TGPEU SDKYuD PUPVYa Razdel

3756 kHz, 07-10, 1830 UTC Message

S32 - Squeaky Wheel



Mode: USB

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

5473 kHz, 03-10, 1346 UTC AL'FA-45 79633 VyeSTOVOYaZH 58273287

5473 kHz, 03-10, 1343 UTC AL'FA-45 00218 BRyAKOVtUZ 90566661



V02a

Dirección General de Inteligencia

V02a popped up three times in October. As always during the 2000 UTC slot on Thursdays. Unfortunately the modulation was very bad and the third one was weak. Quim jotted down part of the transmission of 6 October.

7555 kHz, 06-10, 2000 UTC

7555 kHz, 20-10, 2005 UTC. Late start, very noisy transmitter and bad modulation. Impossible to copy

7554 kHz, 27-10, 2000 UTC

Partial transcript of 6 October:

Message for ?????

XXXXX X6211 70767 41875 34868 68527 68165 44745 17188 10751
 74104 28646 60021 41658 74020 18121 43828 64814 67316 30412
 46450 05731 63051 63835 76057 66484 34378 38650 60082 83282
 06228 78751 05144 11137 10760 56071 04348 75401 87442 00324
 56747 36170 12066 62868 51506 02761 65261 24043 11342 63475
 28785 20671 17617 63132 58323 11813 22616 81881 40232 31875
 72764 47584 68310 88656 83740 80072 30285 30467 60846 56740
 60600 28433 8X105 83861 861X2 54556 45250 17543 40600 471XX
 67868 5X831 84552 8464X 07021 82556 84131 17207 68476 8XXX6
 52084 18688 63025 88271 08164 18002 XX340 11387 572X4 13586
 54863 85702 54414 038X7 34516 76127 4214X 71002 61385 07814

Message for 82151 (partial)

65812 61316 8X365 73476 45368 6343X 4008X 48462 5864X 14546
 48XXX 34663 85772 4164X 0886 36482 X03XX 14405 34428 73744
 80543 3722X 47334 38422 66100 34210 82710 ...

Final Final Final

Quim discovered that V02a behaviour was quite similar to October 2015:

<u>V02a October 2015</u>	<u>V02a October 2016</u>
2nd Thursday, 08-10	1st Thursday, 06-10
-	3rd Thursday, 20-10
5th Thursday, 29-10	5th Thursday, 27-10



V07

18074/15874/14374 kHz, 30-10, 0100/0120/0140 UTC

883 883 883 1 273 77

25434 90328 33488 03924 88407 58871 72585 02389 22533 43332
 21434 10203 20812 03019 20879 05714 74215 01844 05581 30290
 04151 11871 83807 28542 81333 00754 43512 23345 73149 03387
 18831 51987 27353 11812 08533 15343 43020 83339 19525 71754
 45259 21047 73340 82913 92452 22153 28534 34381 18030 41300
 27831 74900 52933 11307 77394 47478 92377 50413 34980 10257
 31843 25510 58958 30254 08247 39977 70820 48821 80883 84284
 37574 91437 12830 31817 83100 32384 72337
 000 000



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

Current schedules:

15388 kHz New Star Broadcasting #1 0200 UTC
 15388 kHz New Star Broadcasting #1 0300 UTC
 15388 kHz New Star Broadcasting #2 0400 UTC
 15250 kHz New Star Broadcasting #4 0500 UTC
 15250 kHz New Star Broadcasting #4 0600 UTC

15388 kHz New Star Broadcasting #3 0700 UTC
 15388 kHz New Star Broadcasting #3 0800 UTC
 9725 kHz New Star Broadcasting #4 1200 UTC
 9725 kHz New Star Broadcasting #4 1300 UTC



V15

Via Radio Pyongyang

3020 kHz, 13-10, 1612 UTC

Music: Gippeum-ui Nolaeng Hamkke Galila (We will go together with a song of joy) followed by the following announcement and message:

We will now inform research agent #27 about the review subject of the Remote Teacher's College of Information Technology. We will call the issue.

Page. 621 No. 97 - Page. 737 No. 9 - Page. 408 No. 55 - Page. 741 No. 32 -
 Page. 26 No. 53 - Page. 288 No. 81 - Page. 214 No. 15 - Page. 995 No. 91 -
 Page. 664 No. 49 - Page. 612 No. 1 - Page. 253 No. 80 - Page. 322 No. 80 --
 Page. 428 No. 67 - Page. 651 No. 96 - Page. 346 No. 1 - Page. 599 No. 26 -
 Page. 686 No. 66 - Page. 959 No. 68 - Page. 247 No. 31 - Page. 691 No. 14
 - Page. 635 No. 88 - Page. 470 No. 34 - Page. 219 No. 79 - - Page. 128 No.
 50 - Page. 401 No. 31 - Page. 975 No. 13 - Page. 656 No. 44 - Page. 534
 No. 30 - Page. 152 No. 10 - Page. 838 No. 49 are.

We will call the issue again (message repeated) That's all

621, 855, 3220, 3250 and 6400 kHz, 13-10, 1615 UTC

Message for Agent 27

621-97 737-09 408-55 741-32 026-53 288-81 214-15 995-91
 664-49 612-01 253-80 322-80 428-67 651-96 346-01 599-26
 686-66 959-68 247-31 691-14 635-88 470-34 219-79 128-50
 401-31 975-13 656-44 534-30 152-10 838-49

V15 uses a new slot on the 2nd and 4th Saturday of the month at 1515 UTC, on the various Pyongyang frequencies. Discovered by Moomin999 in late September



621, 657, 801, 3250, 3320 kHz, 22-10, 1515 UTC

Message for Agent 21

915-19 772-70 771-28 097-46 580-77 301-45 894-60 580-12 368-06 224-87

852-51 856-78 368-89 171-66 987-84 222-15 482-88 449-96 943-09 144-76

406-56 520-88 258-70 769-51 088-35 646-09 287-48 841-75 179-01 289-43

V24**6310 kHz, 01-10, 1530 UTC**

Logged by MKD and translated by Moomin999. Korean pop song followed by the following message:

32410 96978 93299 46158 60733 94352 24644 05242 44048 44914

10964 99068 95872

V26

V26 was logged by JPL, AB-HK, and Dan.

Note: This Chinese net uses three modes to transmit their messages. Each mode has its own designator.

Voice: V26

Digital data: Q26, mode: 4+4 QPSK 75/3000 LSB

Morse: M95

They usually sent the following sequence: V26 (callup; start of the sequence), then Q26 (messages, each message is sent 3x), then M95 (same messages as Q26 also 3x), finally V26 (same messages, also sent 3x). All on the same frequency.

Freq	Date	UTC	Day	Details
4243	1-10	0956	Sat	Messages in Chinese. Female operator (not on 9054 kHz)
4243	2-10	0931	Sun	Messages in Chinese. Female operator //9054 kHz
9054	2-10	0931	Sun	Messages in Chinese. Female operator //4243 kHz
9054	7-10	2340	Fri	Callup in Chinese. Female operator
8073	8-10	0019	Sat	Messages in Chinese. Male operator
8073	17-10	1130	Mon	Callup in Chinese. Female operator
4243	17-10	1159	Mon	Message in Chinese. Female operator //9054 kHz
9054	17-10	1159	Mon	Message in Chinese. Female operator //4243 kHz
8073	18-10	1130	Tue	Callup in Chinese. Male operator
4243	18-10	1212	Tue	Messages in Chinese. Female operator //9054 kHz
9054	18-10	1212	Tue	Messages in Chinese. Female operator //4243 kHz
8073	21-10	0045	Fri	Messages in Chinese. Male operator
8073	23-10	1130	Sun	Callup in Chinese. Male operator
4243	23-10	1140	Sun	Callup in Chinese. Female operator //9054 kHz
9054	23-10	1140	Sun	Callup in Chinese. Female operator //4243 kHz
4243	23-10	1203	Sun	Messages in Chinese. Female operator //9054 kHz
9054	23-10	1203	Sun	Messages in Chinese. Female operator //4243 kHz
8073	24-10	0014	Mon	Messages in Chinese. Male operator
8073	25-10	1129	Tue	Callup in Chinese. Male operator
4243	25-10	1140	Tue	Callup in Chinese. Female operator //9054 kHz

Freq	Date	UTC	Day	Details
9054	25-10	1140	Tue	Callup in Chinese. Female operator //4243 kHz
4243	25-10	1228	Tue	Messages in Chinese. Female operator //9054 kHz
9054	25-10	1228	Tue	Messages in Chinese. Female operator //4243 kHz
8073	26-10	0015	Wed	Voice messages in Chinese. Male operator
9054	26-10	2341	Wed	Callup in Chinese. Female operator
8073	27-10	0020	Thu	Messages in Chinese. Male operator
8073	27-10	1130	Thu	Callup in Chinese. Male operator
4243	27-10	1231	Thu	Messages in Chinese. Female operator //9054 kHz
9054	27-10	1231	Thu	Messages in Chinese. Female operator //4243 kHz
4243	27-10	1234	Thu	Messages in Chinese. Female operator //9054 kHz
9054	27-10	1234	Thu	Messages in Chinese. Female operator //4243 kHz
4243	28-10	1140	Fri	Voice callup in Chinese. Female operator //9054 kHz
9054	28-10	1140	Fri	Voice callup in Chinese. Female operator //4243 kHz
4243	28-10	1212	Fri	Messages in Chinese. Female operator //9054 kHz
9054	28-10	1212	Fri	Messages in Chinese. Female operator //4243 kHz
4243	28-10	1232	Fri	Messages in Chinese. Female operator //9054 kHz
9054	28-10	1232	Fri	Messages in Chinese. Female operator //4243 kHz
9054	31-10	0005	Mon	Messages in Chinese. Female operator
9054	31-10	2338	Mon	Callup in Chinese. Female operator

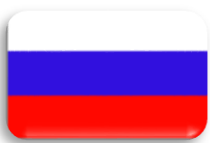


V28

North Korean numbers station "Parrot" is still very active. Thanks to dxer Kimi in Japan for the logs.

3124 kHz, 04-10, 1330 UTC, Parrot on 3124, 3140, 3277, 3693 kHz. Male and female operators
3110 kHz, 06-10, 1330 UTC, Parrot on 3110, 3142, 3277, 3697 kHz. Male and female operators
3064 kHz, 08-10, 1333 UTC, Parrot on 3064, 3144, 3277, 3693 kHz. Male and female operators
3064 kHz, 11-10, 1331 UTC, Parrot on 3064, 3144, 3277, 3693 kHz. Male and female operators
3065 kHz, 12-10, 1332 UTC, Parrot on 3065, 3178, 3695 kHz. Male and female operators
3066 kHz, 14-10, 1335 UTC, Parrot on 3066, 3142, 3277, 3699 kHz. Female operators
3065 kHz, 15-10, 1332 UTC, Parrot on 3065, 3144, 3277, 3670 kHz. Female operators
3065 kHz, 20-10, 1330 UTC, Parrot on 3065, 3157, 3283, 3696 kHz. Male and female operators
3277 kHz, 22-10, 1329 UTC, Parrot on 3277, 3694 kHz. Female operator
3143 kHz, 27-10, 1336 UTC, Parrot on 3143, 3159, 3277 kHz. Female operator
3701 kHz, 29-10, 1339 UTC, Parrot i.p. Female operator

MORSE STATIONS



M01

6510 kHz, 02-10, 0700 UTC

Hand sent. Several errors. Some random keying between 0659 and 0705 UTC.

Message starts at 0705 UTC. Recording on the N&O website.

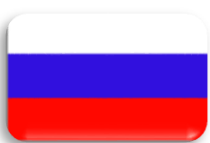
463 117 30 =

40112 46069 79337 07529 35187 74388 78112 45200 54582 63173

76587 31046 78116 78372 18989 79671 05611 73283 08985 73931

32346 91003 10341 69317 84407 64997 35573 67974 36535 46355 =

117 30 000



M01a

10233 kHz, 04-10, 0625 UTC

354 354 354 773 76

354 354 354 789 36

5191 kHz, 07-10, 0845 UTC

739 739 739 305 22

333 396 22

739 739 739 111 999

182 10 = 15740 96157 40627 90641 69804 50249 10324 93102 49065 31385 = 182 10

739 739 739 111 000

5323 kHz, 12-10, 0838 UTC

307 307 307 363 30

111 12



M08a

Dirección General de Inteligencia

M08a is still on the air, but alas, we received only a few logs.

Freq Date UTC Day

7554 11-10 2002 Tue TWNDA AIWRN NAGGN

8136 11-10 2259 Tue DGI morse transmission

8097 12-10 1358 Wed Message

8097 13-10 1415 Thu Message i.p.

7554 13-10 2000 Thu AUGAA NINDN DARRA

8009 31-10 2307 Mon Usual callup and message



M12

8053/9178/10287 kHz, 04-10, 0800/0820/0840 UTC

816 816 816 1 3477 58 3477 58
15782 50439 67241 62870 88526 71864 07140 26307 80304 22471
42787 92873 59077 80845 75428 41567 14824 25394 12661 70264
13933 30589 08418 06890 34097 86156 28106 43741 60569 68343
00381 23323 16200 51697 40311 50415 87993 30452 74745 32305
98915 61442 86584 24659 81622 20039 64270 06621 24040 11777
36338 13879 87039 92258 06255 71277 71079 13510
000 000

12214/10184/9214 kHz, 06-10, 1310/1330/1350 UTC

282 282 282 1 1141 175 1141 175
43400 39190 76546 37262 76704 83827 33655 85845 21313 40604
41808 60792 97518 95155 64289 59804 96206 49759 68030 43756
03795 63959 37610 68666 47629 89130 83163 34169 44202 60201
58493 58062 13467 38720 66597 59196 59962 49417 10920 90451
97068 46230 83451 22489 85638 12843 85460 39782 47089 19579
63390 68746 64964 83987 96341 63321 14318 23647 30404 24144
64648 07112 97777 53951 45303 24907 65166 57644 52546 64784
89192 67348 70685 17224 09443 35985 80068 14390 54065 16456
47865 70611 63743 07979 55161 73985 76734 49635 78839 49777
62796 77553 51991 47198 52907 79064 50547 53127 02446 27817
47296 60009 30362 30588 32287 18242 75979 93009 93793 30430
08012 16030 79357 42516 56218 89994 84098 23072 00558 45557
68210 10792 64410 57450 70474 24556 71329 18940 49401 16821
07811 92655 52451 89311 90900 41980 43210 81452 90433 34032
65609 74244 85654 84802 36061 18899 28898 97077 38840 50084
08795 15609 90134 05100 05635 19712 80051 12978 92812 43213
16839 97227 07749 32619 28763 86227 21208 47871 90376 81831
95149 00197 00865 74296 52467
000 000

10343/9264/8116 kHz, 07-10, 1200/1220/1240 UTC

124 124 124 1 7925 65 7925 65
07985 99780 83543 75222 89691 35744 89648 96517 71125 24125
00314 81796 04746 54592 55474 41634 87181 80505 54314 51698
11130 83358 44218 81380 54387 15283 14702 90397 79566 00518
60576 28866 14779 92796 04567 86078 01455 74241 10262 07186
93094 48175 97675 09420 56171 87833 18633 93739 44998 55069
26248 33944 05465 64758 19844 62633 84818 22951 07259 73926
50099 25300 73938 06907 06206 000 000

8053/9178/10287 kHz, 11-10, 0800/0820/0840 UTC

816 816 816 1 1288 63 1288 63
34201 30605 68840 45756 85182 36825 70500 82593 35461 51989
11384 85578 73644 03307 44368 73318 50901 58018 32322 90278
40435 16769 87820 57731 15604 04695 47524 22776 16601 71540
00329 80927 05014 52908 97673 57101 25575 92453 34794 31562
34508 91282 81942 25754 76667 59074 22131 62596 79167 58795
19120 80925 16921 79720 00217 79900 44571 16366 54336 32173
80641 41473 65830
000 000

18639/17439/15839 kHz, 12-10, 1400/1420/1440 UTC

648 648 648 1 9864 67 9864 67
09017 19100 91825 57074 74119 12276 33205 44797 84778 61874
82068 14129 77129 93691 36935 62500 24154 71356 97737 74540
27508 74527 09910 88221 90121 80437 26290 59457 40926 62726
34763 98363 11185 33126 00916 52228 85318 22661 34571 77653
89668 97465 42503 35243 75884 48871 38047 58575 01891 90388
52578 47029 42011 73360 15802 06737 55535 49239 64007 20816
50121 24055 67064 89203 90570 74261 03596
000 000

10343/9264/8116 kHz, 14-10, 1200/1220/1240 UTC

124 124 124 1 9731 52 9731 52
54487 61712 79546 83300 75840 88793 66230 48513 62782 79847
23744 57815 38789 36840 41596 27791 59087 06180 53724 76976
70376 40190 72496 99648 91338 62863 80966 84224 28333 69238
64098 84744 54440 43642 07289 16326 34076 47316 96809 74670
62790 46215 53025 11897 31540 72824 25979 69189 78551 76987
06672 20848
000 000

8053/9178/10287 kHz, 18-10, 0800/0820/0840 UTC

816 816 816 1 5339 62 5339 62
18275 62521 26573 70105 55188 82781 53829 90248 92714 89334
16524 65149 34705 59819 44829 26807 17430 56421 81077 46348
34623 59351 86750 93815 35056 45363 76445 49647 45929 42517
68869 02528 38768 41391 93637 34535 08620 02009 53963 23102
59502 16588 04419 76424 36027 47362 90027 73704 04485 54175
24612 53485 67511 73852 43939 06241 85463 04068 35429 71765
88040 04534
000 000

12214/10184/9214 kHz, 20-10, 1310/1330/1350 UTC

282 282 282 1 401 141 401 141
33897 80966 20453 31672 94810 47772 25207 35078 46899 28969
51188 19476 78968 18757 77748 75828 18931 01155 55339 86012
84651 13021 74187 22620 42290 51426 56178 58671 01633 51822
89900 26000 64496 02420 99407 55559 68976 81477 21844 09277
36569 54338 36419 41415 46813 34860 49734 61796 00955 98721
03699 80455 98404 84831 07854 83669 74881 93382 50879 59930
60419 11448 64210 81166 58850 88912 76237 81650 15926 54490
06861 75718 37844 77630 83513 09147 76306 19016 86118 27829
27366 91648 15709 19223 72466 27081 34446 00382 28603 07014
88821 77923 09344 33160 75451 58772 55806 88151 80572 16522
03724 54484 00365 60783 69576 08943 55145 44689 48866 66046
24064 52050 55203 89764 92321 87583 10919 41271 74343 37248
19281 69919 73167 54643 44062 32115 96927 17918 35711 47084
20456 08548 49472 57323 00663 93968 63294 16077 69267 84876
72704
000 000

10343/9264/8116 kHz, 21-10, 1200/1220/1240 UTC

124 124 124 1 2451 66 2451 66
47317 53411 78145 18745 27672 64156 81051 61479 44441 90567
12934 90224 83410 63583 18984 08129 79393 83760 82547 68771
89096 82388 72557 41566 40379 89814 36974 50584 46073 71446
81211 72825 44896 71345 26555 51911 33442 81661 58607 19438
01675 97045 58508 67462 67484 90235 79501 77616 29191 56474
03129 96051 65928 71916 40664 07738 70115 12094 91753 50544
23456 44174 73337 75729 48560 35222
000 000

6832/7932/9232 kHz, 22-10, 0500/0520/0540 UTC

892 892 892 1 2443 89 2443 89
90098 72387 08769 75750 92714 05096 30411 38010 25073 21593
09980 68789 37916 98001 12937 88189 35581 75247 80809 27553
81037 63606 56805 00115 92241 17319 89348 34339 85620 02734
40471 92732 33790 71814 16529 31351 44679 67270 98370 43880
02160 57927 10702 21123 25083 00569 59443 00815 64885 17233
68245 04530 77124 14668 81506 33574 69002 71765 38018 30478
14876 46312 82616 80242 01676 49949 65899 81645 30653 61832
01437 36876 00620 47961 21638 13756 28028 14886 70894 23051
68362 42507 55017 65562 95265 76496 00175 63120 43619
000 000

8053/9178/10287 kHz, 25-10, 0800/0820/0840 UTC

816 816 816 1 3852 56 3852 56
39034 63871 10902 27403 57871 08063 25899 67541 87007 88582
11594 71291 09219 13889 44886 15583 69138 21812 88304 76717
72359 48474 59546 67185 58237 38783 45671 21939 80452 94509
77313 87938 72765 54540 29333 72456 54212 47472 66338 26277
60680 37171 76935 98587 21235 83447 03946 48066 95857 50174
75697 81018 73065 24852 40697 96209
000 000

10343/9264/8116 kHz, 28-10, 1200/1220/1240 UTC

124 124 124 1 6521 62 6521 62
18548 47154 40644 39543 45418 43117 56946 18515 20307 41022
70786 73815 18591 61026 58381 47285 72964 32994 67667 05864
15621 59061 01215 87460 73077 22503 35740 14021 81896 63303
52760 55701 81931 80781 87762 67007 70298 46895 04619 57713
66268 87728 80654 76342 48797 98048 36219 30787 23076 97032
57152 89377 78101 19606 99362 76166 89312 22249 76436 81200
57325 85062
000 000



M14

10755 kHz, 04-10, 1300 UTC

975 843 60 =

22461 89373 16256 37458 28549 89871 53302 16866 03394 87801
34830 50591 35945 37659 57019 13064 41000 01683 47348 98099
44741 71308 40616 42747 22720 50834 65991 06310 13718 20469
31044 34233 57923 20976 13684 61540 32864 27075 97940 35503
85527 01811 14535 62248 84117 49059 72174 06967 37865 06366
39411 49225 35710 34236 77516 72877 98009 58015 18270 88167
843 60 00000

5430/5560 kHz, 08-10, 0800/0900 UTC

171 613 82 =

76251 82420 63321 84762 90001 63191 53772 48291 80345 76619
37281 44882 00655 27163 85524 04072 74541 73392 56012 31062
63880 93652 61710 87201 85491 63881 42608 90701 40027 55217
63381 93671 53122 70436 62117 70239 55411 61901 63888 92441
53790 84151 39959 00466 72261 84255 05003 77282 56201 60942
52771 43902 33735 72431 88465 72209 00512 31210 62091 50544
60011 74109 62420 52883 74507 54637 23110 63908 52260 74091
52081 43309 70551 10103 40622 82146 70336 42801 63035 62091
76351 82240
613 82 00000

10755 kHz, 11-10, 1300 UTC

975 384 57 =

10453 02437 81094 54336 76562 74168 51433 93221 50994 66561
15627 30710 47896 32648 25340 32622 08848 17710 68873 24907
60841 17915 08096 97057 27090 03113 36175 09521 57857 39729
35801 03559 73490 74695 42586 36984 36854 66352 43319 94210
97340 73258 63781 44063 73653 36853 25796 43771 67544 18901
78200 12599 25700 79660 31437 23537 91951
00000

Note: after group 29 there was a short pause, the call-up restarted and then finished the message, changing groups 28 and 29.

5463 kHz, 12-10/26-10, 1920 UTC

537 518 86 =

32498 53900 12865 21208 51810 31717 42954 41665 86113 42421
98900 84532 42814 26690 00343 51926 33664 76712 81624 58500
54119 10200 37901 42338 15271 63498 61772 54718 32991 84721
36519 48264 33876 29237 50630 53732 11737 34890 24351 27136
54373 29890 80740 30012 45123 54819 90601 25934 27579 41734
53890 72189 41612 51078 01276 53890 03048 42518 53900 02561
53718 59341 47816 89162 73349 64172 45161 83901 01561 73282
52400 71098 58512 63901 02074 64570 29078 80829 52727 86241
53712 63490 82310 20943 57286 61220
518 86 00000

10755 kHz, 18-10, 1300 UTC

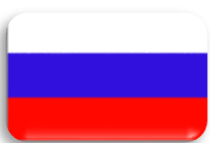
975 438 56 =
 71902 71844 72728 04411 31201 92318 85137 67331 03590 10273
 90392 48272 67849 60496 41907 86637 57694 70039 42288 07265
 31277 74465 68362 64269 84147 51395 82610 17011 22849 57260
 60731 86635 41360 78233 89997 66609 67543 31239 18103 85708
 71808 76014 57184 46873 55166 24134 72704 90388 58867 55947
 11893 54819 62807 81362 51419 34126
 438 56 00000

5430/5560 kHz, 22-10, 0800/0900 UTC

171 490 91
 52378 90126 42876 19097 72691 06132 48071 25375 61608 72421
 83606 51026 83528 91905 72231 63881 92244 04190 63217 66747
 98414 20204 53261 74194 52781 84390 71515 45020 75229 83120
 62467 84309 85561 29900 06718 53771 28431 53908 61234 43910
 63598 61734 83264 61905 72426 76149 62527 79010 63381 19427
 63841 53991 73062 20719 63735 64490 26173 45590 80961 30352
 53125 56123 87610 85171 31010 53430 80127 63530 70771 10323
 63630 19372 53610 87031 52890 63781 32084 52100 00340 62721
 52400 62826 61120 54622 71060 64991 24051 00647 73809 62841
 32465
 490 91 00000

5947 kHz, 25-10, 1820 UTC

346 518 86
 32498 53900 12865 21208 51810 31717 42954 41665 86113 42421
 98900 84532 42814 26690 00343 51926 33664 76712 81624 58500
 54119 10200 37901 42338 15271 63498 61772 54718 32991 84721
 36519 48264 33876 29237 50630 53732 11737 34890 24351 27136
 54373 29890 80740 30012 45123 54819 90601 25934 27579 41734
 53890 72189 41612 51078 01276 53890 03048 42518 53900 02561
 53718 59341 47816 89162 73349 64172 45161 83901 01561 73282
 52400 71098 58512 63901 02074 64570 29078 80829 52727 86241
 53712 63490 82310 20943 57286 61220
 518 86 00000



M21 + variants
Russian Air Defence Forces
Во́йска ПВО Voyska PVO

3543.5 kHz, 05-10, 1728 UTC
 3895.5 kHz, 05-10, 1748 UTC
 3543.5 kHz, 05-10, 1748 UTC
 4800.5 kHz, 13-10, 0645 UTC
 6231 kHz, 15-10, 0834 UTC
 2031.5 kHz, 17-10, 1640 UTC
 5180 kHz, 17-10, 1702 UTC
 3228.5 kHz, 17-10, 1738 UTC
 4763.5 kHz, 25-10, 0520 UTC
 2814.5 kHz, 21-10, 1823 UTC
 3383 kHz, 21-10, 1628 UTC

9510997541826 9510997513428 9510997513232
 9510997016649571 95104108511200
 9510997016649571 95104108511200
 190978 87190 9688 0097 89996981 691 0009495 511800
 =991139 ??0????? =1793436162783 =991238??0????? =27930901360630
 9933993361840 99339933...
 9955786229510 9955249249510 ...
 =992040??0????? =17934469613937 =17934469613739 =17934469613739
 119504 0821
 1909792 1909791 009794 99307 8191 00 2126 5118 00
 9969 77127 8 9701 9969 2642897 02 996978728 and 9511 97341328 9613868283728
 9511997341328 9615997978928 9701796925829 9702 996977829 9701996925730
 9511997342930
 684650616540 = 12168465816640 = 22170401010212 = 22170401010212 =
 12170401010215 = 993142????? = 12172461539642

4639.5 kHz, 21-10, 0840 UTC

5231 kHz, 18-10, 0507 UTC
4635.5 kHz, 18-10, 0625 UTC
5793.5 kHz, 18-10, 0638 UTC
6765 kHz, 18-10, 0744 UTC

XXX PABA BOJOWYJ 5601 K. 99189998545708
740999318324 741996583128 8742993574229 1909740
09920993366538 51799209100511800 9918545540 9920993366140 009921993366540
51799219100511800 9918990527940 1929918
9614 861 01 9944 9616 861 61 44 9617 861 58 13 44 9620 996 38 65 44



M41
Russian Air Defence Forces
Во́йска ПВО Voyska PVO

4959 kHz, 01-10, 1503 UTC

99 9999335478...
RCUP RCUP 990199 9999335478 RCUP RCUP AR

5231 kHz, 01-10, 1600 UTC

VVV VVV VVV VVV ASEU ASEU AR

3814 kHz, 04-10, 1739 UTC, i.p.

1199 4873 60 55 4119 5324 6349 166 52 83 3618 1733 1016 0573 5525 118236 74 3097 4001 8405 4436 8930 672426 789223
4764 5610 1628 8865 1820995 6910 4171 8200 3179 27176613 8160 6703 6965 1069
RPT
1199 4873 60 55 4119 5324 6349 166 52 83 3618 1733 1016 0573 5525 118236 74 3097 4001 8405 4436 8930 672426 789223
4764 5610 1628 8865 1820995 6910 4171 8200 3179 27176613 8160 6703 6965 1069 K
VVV VVV VVV A7Z3 DE 3EAM ZVJ ZVR ZCN ZZU ZBR RPT ZVJ ZVP ZCN ZZU ZBR K

4635.5 kHz, 07-10, 0633 UTC

N9SA N9SA EEEEEEE N9SA
0090500 99758 56 7100 EEEEE
0095009975 7671700935 511600
95009975 8593295009975 849

5180 kHz, 07-10, 0643 UTC

9500 997 5846 34
9500 997 5849 35 517
9500 7150511 600
9500 997 5842 36
9500 997 5836 37
9500 997 5839 38
9500 997 583239
9500 997 0855 40 190
9500 09 41 K

5793.5 kHz, 08-10, 0603 UTC

RCUP RCUP AR

7355 kHz, 14-10, 1102 UTC, i.p.

5208 4543 551 81029 01 =
5210 4591 736 81015 01 =
5207 4590 923 81033 01 =
5208 4543545 03 =
5210 4591 731 81037 03 =
5207 4590 934 81032 03 =
5208 4543 981 05 =
5210 4543 765 81038 05 =
5207 4590 616 05 =
PWZW =

7355 kHz, 15-10, 0836 UTC

3257 458 34369 1102 41 =
257 458 343191 101 43 =
3257 458 2459 891 099 45 =

4044.5 kHz, 15-10, 1801 UTC

722 1949 7130 9123 22 128710 0001 RPT
722 1949 7130 9123 22 128710 0001 AR

3814 kHz, 16-10, 1714 UTC, i.p.

RPT 722 1949 60386 15877 12872 27020 10 K K
VVV VVV 6LNG ZJH ZMU ZMM ZGA ZYW =
6LNG ZJH ZMU ZMM ZGA ZYW K

6362 kHz, 17-10, 0448 UTC

5L91 5L9I AR

4800.5 kHz, 17-10, 0503 UTC

N9SA N9SA 7221 949700 9969681 29152 09008 03
RPT 7221 949700 996968 129152 09008 03 K
0097989935744910805511800

2568.5 kHz, 17-10, 1720 UTC

72219497429969278128822702022
RPT 72219497429969278128822702022
A2T9 K

4800.5 kHz, 20-10, 0449 UTC

N9SA N9SA ZJL ZDK ZYZ ZHD ZIM ZXS RPT ZJL ZDK ZYZ ZHD ZIM ZXS K 20 oct. 16 (F5JBR)

5231.5 kHz, 21-10, 1508 UTC

RCUP : M41 1508z CW RCUP RCUP AR

4635.5/4800.5 kHz, 21-10, 0809 UTC

9702 996979708
9701 996026108
9610996029108 1909701
9703 ... 78710
9702 996977410
9610996023710 1909703
9702996979712
9702996071312
9610996023612

3712 kHz, 19-10, 1743 UTC

DCA2 DCA2 DCA2 AR
DCA2 DCA2 WZD 1300 454 2929 72 10 50
ABV 1300 4542927721050 72252 EEEEE 722511 12 EEEEE 722511 1300 20 05 AR
WZD 13026191743 7130 52
ABV 1302 619 1743 713052 722 5111302300 52
WZD 1304 46162 13715053
ABV 1304 461 62 137150 53 722 5111304 600 53 AR

5831 kHz, 19-10, 0743 UTC

F1RT F1RT AR

2665 kHz, 18-10, 1853 UTC

KN1A KN1A AR

2568.5 kHz, 18-10, 1745 UTC

972 79960 829 46 73 09969 823 46

974 09969 822 48 972 79960 893 48

2471/3543.5 kHz, 18-10, 1843 UTC

42 5179659 81 40 511 200
99601 868 69 44 21 43 517
9601 71 01 511 800 00
9601 868 69 44 21 43 517
9601 71 01 51 1 800 00
9601 861 59 66 21 43 517
9601 74 01 511 800 00
9601 861 59 66 21 43 517
9601 74 01 511 800 9659



M89 - Chinese military

Transcripts and notes by JPL.

Notes:

- The new roundslip that appeared last month NG3Y DE 2QLC is probably a change in callsign/frequency for 2SLC on 3330 and 5588 which has not been heard since 09 September.
- Another new roundslip and frequency showed up on 3300 kHz, 02-10, 1553 UTC: V P7YT P7YT P7YT DE 9ZGA 9ZGA

5566 kHz, 01-10, 1008 UTC

VVV 8RIIIII
V8LRU 8LRU DE CM3Z CM3Z K
VV GG0T GG0T DE CM3Z CM3Z K
VVV J.OV DE CM3Z CM3Z K
VV J0RY J0RY DE CM3Z CM3Z K
VV 5686 AR IEC = 3914 AR K
IEC = 4423 AR
VV J6OW DE 0..WM K
VV ..U. DE .MP 0MPS. K
VVV DKM4 DE 0MPS K
VV F8PY DE 0MPS K (
VV CG3N CG3R DE 0MPS 0MPS K
VV IEC = 9162 AR
IEC = 67.2 AR
IEC = 1469 AR
IEC = 35..
IEC = DT = 3576 AR
7G NR 77 77 GA
7G NR 001 CK 9. 0 = = =
5TUN UU.. A6DN N76U D547 (Cont'd)

5566 kHz, 01-10, 1632 UTC, i.p.

QSA 2 K
VV HSU7 DE 8GQR K
R J50R DE C04T N QSA 2 QSA ? K
R QSA 2 K
R QSL 8 K
R AS
R

5566 kHz, 01-10, 1724 UTC, i.p.

5AD6 64D3 ..3N 4N64

AR
VV F9QZ DE 8GQR

3300 kHz, 02-10, 1553 UTC

V P7YT (x3) DE 9ZGA (x2)

DE

R 31I QSA 2 .. K

SK

R..

DE

R .. QSA 2 ... K

NIL SK GB

CL

DE

R 6UYP QSA 2 QSA ? K

NIL SK GB CL

DE

R TH.2 QSA ? K

NIL SK GB CL

DE

A R O.5I QSA

3572 kHz, 02-10, 1524 UTC, i.p.

3U6A AU7D TAN3 4657 TNAD 675U AT4U

AR

RPT 1P 100W = = N3DT AR

R RPT 1P 99W = = 7AN6 AR

RPT

RPT 2P 60W = = 3TN4 AR

RPT 2P 79W = = 45T3 AR

FM E OK NIL SK GB

6666 kHz, 02-10, 0849 UTC, i.p.

0444455 YR5 YA/YA5YY094

5YY 5T5634X45NA5 4346

A35U ... I AAUNT5U5D 5D3T ..TTTTT

0Y WINZIP PDHSFHR U CX KT.39TYXT KUB

663 4TU4 5NA5 434D 35UD 4N.4 ADAT TU76 T3A5 TTAA 45ND

T563 TTTTTTTT EEEEE

55YA5YO.. 0 EEEEEEE ... 4Y.5R.N

7G GA K

553. 4TU..54346 35UD 4...

RMKS NR CK OK R HK

HR 7G

MUTI K

5504

4 50

554

5555 kHz, 09-10, 1117 UTC, i.p.

3UA7 T365 6ND3 ... AR K

35W TDNA TDNA (Cont'd)

R GA

VVV K QRH EEE QRH QRH HT QRH QRJ QRJ D QR. QRM QRO QRO QRQ QRS QRT QRU QRJ

777G NR 0

/DN//K/.CK

DE DE DE DE DN./X CK CK

CK 661 W3DR EEEEE G.D3888. (Another station now of frequency - hard to copy either - 1123z)

10112334333

MSG NR 002 CK 51 1..9 1.... AR K

1W 3..U K
8W 74DU K (Cont'd repeat groups)
GA

3777 kHz, 10-10, 1942 UTC

76DA DTU5 3AUN TU6N (IP - Cont'd - Machine sent - 1942z)
AR (1945z)
CQ 6/3.24 352. PT165 .G R 36 CK NG5 4T PTT11 .340 RMKS ..8.3124 3523 PT1 BT
TUA6 4T.. (Cont'd - 1946z - fading badly) (Message format suggests RIS9 is part of the 2SLC family)
AR (Return to R/S - 1950z)

3651 kHz, 24-10, 1340 UTC, i.p.

UNU7 44T5 3ND7 44DT 4444 6535 DA46 (Cont'd)
III III III = = =
A775 7635 N63T 56TD (Cont'd)
III III III = = =
4A53 N76N 4.7A (Cont'd)
III III = =
TA3. .. N T565 (Cont'd)

3733 kHz, 24-10, 1353 UTC, i.p.

R R QSA 2 K
RPT (Other station not heard on this frequency)
RPT K
RPT
R QSL 2157 K
R QSL 2157 K
HR F GA
R F NR 4015/EX 2158 RMKS
NR 4015/EX 2158 RMKS 2881 TO 2882 K
= G4../8A.. AR =
K5 =
G4VE/8AHP AR K
R =
G4VE/8AHP AR K
=
G4VE/8AHP AR K
U MSG GA K. U MSG GA K
R GA
CLT RMKS K
RPT RMKS K. RPT RMKS K. RPT RMKS K.
RPT 02W K
RPT 01W K
RPT 02W K
R QSL 220. K
R QSL 2208 K
HR MSG GA MSG
NR 4016 CK 5 61 1024 22.0 RMKS 2881 TO 2882 K
N.4. 5D U65D 47 =
.5T4 A EEE 37D. D446 6543 AR K
QSL 2212 K
R USB USB K. R USB USB K

6688 kHz, 24-10, 0818 UTC, i.p.

05UR DE F4PY K
... QSA 2 QSA ? K (Other station also on on this frequency)
R ...
HR 7G GA
GA
NR 071/EX CK 99 .6 10.. 16. RMKS CQ =

...7 ..ATN5 7. (Cont'd) AR
 VV 03Z DE F4PY K
 R 0I0Q DE 8LNX R QSA 2 QSA ? K
 R QSL K
 R QSL 1630 K. R QSL 1630 K
 R OK
 VV 8M0. DE F4PY K
 R 0I0Q DE J7MY R QSA 2 QSA ? K
 AS
 R
 CI8T DE F4PY K
 R 0I0Q DE CK9Q R OHR 2 QSA ? K
 R QSA . K
 R QSL 1634 K. R QSL 1634 K
 R U NL KR
 VV 4GTV DE F4PY K
 R 0I0Q DE PU R QSA 2 QSA ? K
 R 0I0Q DE 0R... QSA ? K
 R QSL ? K
 R QSL 1638 K
 VV 05UR DE F4PY K
 VV DE F4PY K
 R 0I0Q DE C... QSA ..
 VV CJ7Q DE F4PY K
 VV DE F4PY K
 R 0I0Q DE 0PUZ R QSA 2 QSA ? K

6688 kHz, 24-10, 1552 UTC, i.p.

A6U7 T56U AN.T (Cont'd)
 III = DU46 6TN7 U7T7 (Cont'd)
 AR QSL ? K
 R RPT 1P 4.. BT 4A5T 4A5T AR K (Cont'd - repeat groups)
 R QSL 002. K (It appears other station also on this freq)
 HR WK NR 35 K
 R SK
 SK

3777 kHz, 28-10, 1812 UTC, i.p.

D4DD T773 76TN U75T (Cont'd) AR
 CQ 06/1845 3315 5739 MSG
 NR 1062 CK 96 40 1029 0210 RMKS 1585 O 10835 33.5 5939 =
 D533 555A 6NA3 4NU4 5ATU T4TA D5DT 573. T3TU TT4 UNA4 (Cont'd)
 AR (Return to roundslip)



M90

2085 kHz, 05-10, 1203 UTC
 4133 kHz, 05-10, 1204 UTC

X4GO X4GO AR
 i.p. 5 1430 158 X4GO = VCTHD ORZNA ZEJBG MJA ... X4GO

4776 kHz, 06-10, 0655-0732 UTC

Note: VBNS is the general call used to call all stations.
 XXX ODRA 362 K
 JWX7 ODRA 362 K
 VBNS ODRA 362 K

DTXJ ODRA 362 K
 I2TG ODRA 362 K
 I2TG de K2TC ZBO K
 I2TG QRV K
 K2TC - R 0904 - ZEU - GR 20 = message 5LGs = K
 I2TG IMI R - 0904 - ZEU - GR 20 = repeats message
 K2TC ZWF GR 9 = POLAP K
 I2TG R K
 VBNS de K2TC AS 2 K
 JWX7 de K2TC - P - K
 JWX7 QRV K
 K2TC - G - P - 0921B - GR 20 = JHKLS VBNMY ... = K
 JWX7 - G - P repeats message

4776 kHz, 06-10, 0733 UTC

I2TG de K2TC 602 504 446 507 074 952 K
 I2TG R K
 K2TC AR
 K2TC de U3S3 K
 U3S3 de K2TC K
 K2TC de U3S3 R AR
 DTXJ de K2TC ZBO K
 DTXJ QRV K
 K2TC - G - R - 0934B - ZEU - GR20 = WEWAA AIPME ... = K
 DTXJ - G - R - 0934B repeats message = K

VBNS de K2TC XXX DATEL 779 K
 U3S3 DATEL 779 K
 JWX7 DATEL 779 K
 DTXJ DATEL 779 K
 VBNS de K2TC C AR

VBNS de K2TC 457 K
 JWX7 R K
 U3S3 R K
 DTXJ R K
 VBNS de K2TC AR

4767 kHz, 06-10, 0724 UTC
 4767 kHz, 06-10, 0823 UTC
 4852 kHz, 13-10, 0622 UTC
 4852 kHz, 13-10, 0725 UTC
 4852 UTC, 13-10, 0726 UTC
 4852 kHz, 18-10, 0602 UTC
 3316 kHz, 18-10, 0644 UTC
 3376 kHz, 18-10, 0809 UTC

4972 kHz, 18-10, 0838 UTC
 3361 kHz, 19-10, 0607 UTC
 4972 kHz, 20-10, 0638 UTC
 5375 kHz, 20-10, 0657 UTC
 4972 kHz, 20-10, 0609 UTC
 3316 kHz, 25-10, 0740 UTC

Czech Army net. Voice traffic
 F8JC Wkg KRV4. Radio check and sends "457", which probably means "end of traffic"
 Exercise. CQXJ wkg DNSF, XVSQ, TSXS, ICFV, PJP6, EHBj. Radio checks and coded messages
 XXX DEBUKCE-176 RELAX-692 KNIHA-967. Sends 542 862 to activate voice traffic.
 Voice radio checks and coded messages in Czech
 CQXJ wkg DNSF, XVSQ, TSXS, ICFV, PJP6, EHBj
 CQXJ wkg DNSF, XVSQ, TSXS, ICFV, PJP6, EHBj
 F4DH clg EGC3 (collective call) and wkg D3CJ, WK2Z, HT4R, TCP6.
 F4DH sends: 209 112 (probably meaning QSY as they changed freq after that)
 F4DH clg GC3 (collective call) and wkg D3CJ, WK2Z, HT4R, TCP6
 XQ2H wkg DAZ4, KHNZ, WV5M, N7G6
 Czech Army net. Voice traffic
 M5L5 wkg K8FP, K8D8, G6CS, AR4L. Net station sends 987, then switches to voice traffic
 M5L5 wkg K8FP, K8D8, G6CS, AR4L. Net station sends 987, then switches to voice traffic
 CQXJ wkg DNSF, XVSQ, TSXS, PJP6, V7M6, MXV5



M95

4243//9054 kHz, 01-10, 0942 UTC, i.p.

773 N44 5AA 75U 3U7 354 373 4T7 34T ... AR
A HR 7G GA
NR 043 CK 29 35 1001 1531 =
5TD UTT TTA 3U6 3A4 357 365 4T7 N3D 4T4
U7U N4A 444 3DA DND 734 445 3DA TTU TT3
773 445 3DU DND 734 446 467 3D3 4D3 AR
7G AGN
NR 043 CK 29 35 1001 1531 =
5TD UTT TTA 3U6 (Cont'd) AR
A HR 7G GA
NR 094 CK 26 35 1001 1657 =
UT5 TTA 3U6 3A4 TTA TTU TT3 773 357 37U
TTA TTU773 4TN 445 TT3 773 4TN 445 N3D 4U6 TT6
4D3 3DA N3D 3DU AR
MSG AGN
NR 094 CK 26 35 1001 1657 =
UT5 TTA 3U6 3A4 TTA TTU (Cont'd)
A HR UP SB WK

4283 kHz, 02-10, 0947 UTC, XSV70 i.p.

3AN 35. 4T3 556 4D6 T. 773 ... AR
A HR 7G GA
NR .. CK 55 1002 1900
N65 6T5 6T6 .6 ... (Cont'd) AR AR
MSG GA
NR 53 CK 21 49 1002 1700
467 63. 5U6 7.. (Cont'd) AR
MSG AGN
NR 053 CK 21 49 1002 1700
467 63N 5U6 7UN 34T 4D5 (Cont'd) AR
A HR 7G GA
NR 882 CK 128 35 1002 0708
... AT. TTU 3U6 ... (Cont'd) AR
A AGN
NR 882 CK 128 35 1002 0708
AUT3 TTU 3U6 TT4 773 35. (Cont'd)
ZNN SK

4283 kHz, 02-10, 1335 UTC, XSV70 i.p.

75D 4DU TT6 773 3AD 353 4T3 446 ... AR
MSG AGN
NR 0.84 CK 185 35 1002 15.8
ATD UT3 TTU 3U6 TTU 773 3AD (Cont'd)
ZNN SK

4243//9054 kHz, 02-10, 0915 UTC

AR
A HR 7G GA
NR 04. 185 35 1002 1620 =
UTU TTU 3A6 3A4 TTU 773 (Cont'd) AR
A HR 7G GA
NR 097 CK 26 35 1002 1646 =
UT5 TTU 3U6 3A4 TTA TTU TT3 773 353 DN7

354 37U N3D 35U 4AD 445 TT3 773 4UT 446
336 N3D 4AD 445 4D3 3DA AR

9054 kHz, 07-10, 2347 UTC

V
HR MSG TOYR PSE CY
NR 056 CK 23 35 1008 0624 =
5TD UTT TTD 3U4 7T. N44 3A4 356 4A5 N3D
4TA U7. N4A 446 467 .DU TTU TT3 773 447
46D 3D4 4D3 AR
7G AGN
NR 056 CK 23 35 1008 0624 =
5TD UTT TTD 3U4 7TA N44 3A4 346 4A5 N3D
4TA U7U N4A 446 (Cont'd) AR
HR MSG GA
NR 014 CK 19 35 1008 0645 =
UT5 TTD 3U4 3A4 TTA TTU TT3 773 35A U4T
353 4TA 447 346 446 4D6 3D4 T.. AR
7G AGN
NR 014 CK 19 35 1008 0645 =
UT5 TTD 3U4 3A4 TTA TTU TT3 773 3T5 AU4T
353 4TA 447 346 446 4D6 ..4 .. 3 DU AR
HR 7G
NR 15 CK 079 35 1008 0704 =
U.. TTD 3U4 3A4 TTU 773 35A U4T 353 (Cont'd) AR
MSG AGN
NR 15 CK 079 35 1008 0704 =
UTU TTD 3U4 3A4 TTU 773 35A U4A 353 (Cont'd)

8073 kHz, 08-10, 0007 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA
NR NR 0850 CK 48 35 1008 0706 =
TAT 6. TTD N53 TT6 N54 (Cont'd) AR
A HR 7G GA
NR NR 0851 CK 113 35 A00D 0707 =
TTD 3U4 .A4 TAU 773 357 373 4T3 NN3 (Cont'd) AR AR

4243//9054 kHz, 17-10, 1149 UTC, i.p.

TTA TT3 773 344 63D
AR
A HR 7G AGN GA
NR 34 CK 118 35 1017 1557 =
UTU TA7 3U6 3A4 TTU 773 35. (Cont'd)
AR
A HR MSG GA
NR 043 CK 17 35 1017 1652 =
UT5 TA7 .U6 3A4 TTA TTU TT3 773 35A 4TA
N3D 4TN 445 4D6 N3D 4D3 3DA AR
A HR U PR EEEE A HR U P SB WK AR AR AR

8073 kHz, 17-10, 1142 UTC

V BNGC (x3) DE XSV85 (x2)
HR 7GS GA PSE CY
NR 0909 CK 45 35 1017 1615 =
TTN 5UT A7N5 (Cont'd - runs letters together)
AR
A HR 7G GA
NR 0910 CK 85 35 1017 1622 =
TAT N5U TA7 T53 TAD N54 7TT TA3 746 (Cont'd)

4243//9054 kHz, 18-10, 1156 UTC, i.p.

A HR 7G GA

NR 36 CK 106 35 1018 1554 =

UTU TAD 3U6 3A4 TTU TT6 733 5AU (Cont'd) AR

7G AGN

NR 36 CK 106 35 1018 1553 =

UTU TAD 3U6 3A4 TTU (Cont'd) AR

A HR UP SB WK

8073 kHz, 18-10, 1144 UTC

V BNGC (x3) DE XSV85 (x2)

HR 7GS GA (x2)

NR 0917 CK 84 35 1018 1606 =

TAT N5U TAD N53 TAD N54 7TT TA7 746 6T5 (Cont'd) AR

A HR 7G GA (x2)

NR 0918 CK 48 35 1018 1606 =

TAT N5U TAD N53 TAD N54 (Cont'd) AR

HR 7G GA (x2)

NR 0919 CK 388 35 1018 1610 =

TAD 3UD 3AN 3U7 TAU 773 (Cont'd)

9054 kHz, 20-10, 2348 UTC

V HR MSG TOYR PSE CY

NR 053 CK 25 35 1021 0611 =

UT5 TUA 3U4 3A4 TTA TTU TT3 773 (Cont'd) AR

7G AGN

NR 053 CK 25 35 1021 0611 =

UT5 TUA 3U4 3A4 TTA TTU TT3 773 357 (Cont'd) AR

NR 7G

NR 082 CK 28 35 1021 0632 =

5TD UTT TUA 3U. 7TA N44 3A. 357 365 (Cont'd) AR

7G AGN

NR 082 CK 28 35 1021 0632 =

5TD TUU TUA 3U4 7TA N44 3A4 357 365 4T7 N3D 4TU (Cont'd) AR

A HR 7G GA

NR 41 CK 80 35 1021 0717 =

UTU T.A 3U4 3A4 7TU 7TA 7T7 75N 336 N3U 7UT (Cont'd) AR

7G AGN

NR 41 CK 80 35 1021 0717 =

UTU TUA 3U4 3A4

V BNGC (x3) DE XSV85 (x2)

HR 7G PSE CY

NR 0937 CK 152 35 1021 0657 =

TUA 3U4 3A4 TAU 773 354 374 4T6 NN3 (Cont'd) AR AR

A HR 7G GA

NR 0938 CK 57 35 1021 0707 =

TAT N5U TUA T53 TT6 N54 7TT TAU 746 N65 (Cont'd) AR

7G AGN

NR 0937 CK 152 35 1021 0657 =

TUA 3UA 3A4 TAU 773 354 374 4T6 NN3 (Cont'd) AR

A HR MSG GA

NR 0938 CK 57 35 1021 0707 =

TAT N.. TUA N53 TT6 N54 7TT TAU 746 N65 (Cont'd) AR AR

5555 kHz, 22-10, 1123 UTC, i.p.

75TU AT5A AD5U D437 3DT5 DUN6 ... AR

MSG NR 05

//// / =

////////// CXCCCCCCKC

MSG NR 05/CCK CK 60 14 1022 1900 RMKS CQ =

R WTV

R OWT =

4243//9054 kHz, 23-10, 1148 UTC

V HR 7G TOYR PSE CY

NR 087 CK 23 35 1023 1534 =

5TD UTT TU3 3UT 7T3 7TA N44 3A4 (Cont'd) AR

A HR 7G GA

NR 46 CK 122 35 1023 1616 =

UTU TU3 3U6 3A4 TTU 773 357 4T3 446 (Cont'd) AR

A HR 7G GA

NR 065 CK 17 35 1023 1645 =

UT5 TU3 3U6 3A4 (Cont'd) AR

PSE R U WR SB

8073 kHz, 23-10, 1136 UTC

V BNGC (x3) DE XSV85 (x2)

HR MSG GA PSE CY

NR 0947 CK 158 35 1023 1549 =

TU3 3U6 3AN 3U7 TAU 773 353 4T3 (Cont'd)

9054 kHz, 23-10, 2351 UTC till 0011 UTC on 24-10, i.p.

MSG AGN

NR 067 17 35 1024 0610 =

UT5 TU. (Cont'd)

AR

A HR MSG EEEEEEE

NR 088 2. 35 102 0... =

5TN ... TTU 43U T3U 435 (Cont'd) AR

7DA7

NR 088 .. 35 1024 0637 =

5TD UTT TU4 (Cont'd) AR

A HR TSG

NR 47 CK 050 35 1024 071. =

43U 43A 4TT (Cont'd) AR

MSG AGN

NR 47 CK 052 35 1024 0710

UTU TU4 3A. (Cont'd)

4243//9054 kHz, 25-10, 1148 UTC

VV VVVV VV VV V =

HR MSG TOYR PSE CY

NR 091 CK 25 35 1025 1535 =

5TD UTT TU5 3U6 3A4 353 4A5 N3D 4TU (Cont'd) AR

7G AGN

NR 091 CK 25 35 1025 1535 =

5TD UTT TU5 3U6 3A4 353 (Cont'd) AR

A HR MSG GA

NR 50 CK 162 35 1025 1601 =

UTU TU5 3.N (Cont'd) AR

MSG AGN

NR 50 CK 162 35 1025 1601 =

UTU TU5 3U6 3A4 TTU 773 357 (Cont'd) AR

A HR MSG

NR 072 CK 24 35 1025 1654 =

UT5 TU. 3U6 3A4 TTU TTU TT3 (Cont'd) AR

AGN

NR 072 CK 24 35 1025 1654 =

UT5 TU. 3U6 3A4 TTU TTU TTE 773 (Cont'd) AR
A HR UP SB WK

8073 kHz, 25-10, 1134 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA
NR 0951 CK 20 35
NR 0951 CK 10. 35 1025 .525 =
TU5 .U6 3AN .U7 TA. 773 (Cont'd)

9054 kHz, 25-10, 2353 UTC, i.p.

NR 092 CK 17 35 1026 0650 =
4TD UTT TU6 3U4 (Cont'd) AR
A HR MSG GA
NR 49 CK ..1 35 1026 ..30 =
UTU TU6 3U4 3A4 TTU 773 (Cont)
34T T3U (Cont'd) AR

9054 kHz, 26-10, 2349 UTC

VV HR MSG TOYR A
HR MSG TOYR PSE CY
NR 076 CK 20 35 1027 0603 =
TT5 TU7 3U4 3U4 TTA TTU TT3 773 (Cont'd) AR
7G AGN
NR 076 CK 20 35 1027 0603 =
TT5 TU7 3U4 (Cont'd) AR
A HR 7G GA
NR 094 CK 28 35 1027 0631 =
5TD UTT TU7 3U4 3A4 35U NUD 354 365 (Cont'd) AR
MSG AGN
NR 094 CK 28 35 1027 0631 =
5TD UTT TU7 3U4 3A4 353 N3D 354 (Cont'd) AR
A HR MSG GA
NR 53 CK 093 35 1027 0716 =
UTU TU7 3U4 3A4 7TN 3U6 N3U 73U 7UT TTA (Cont'd)
357 373 (Cont'd) AR
7G AGN
NR 53 CK 093 35 1027 0710
U DT7 3U4 3A4 7TN (Cont'd)

4243//9054 kHz, 27-10, 1150 UTC

VVV
HR MSG TOYR PSE CY
NR 095 CK 31 35 1027 15U8 =
5T. UTT TU7 3U6 7TA N44 3A4 354 (Cont'd) AR
7G AGN
NR 095 CK 31 35 1027 1528 =
5TD UTT TU7 3U6 7TA N44 3A4 354 (Cont'd) AR
A HR MSG GA
NR 54 CK 152 35 1027 1620 =
UTU TU7 3U6 3A4 7TN 336 N3U 73U 7UT TTU 773 354 (Cont'd) AR
7G AGN
NR 54 CK 152 35 1027 1620 =
UTU TU7 3U6 3A4 7TN 336 N3U (Cont'd) AR
A HR 7G GA
NR 078 CK 28 35 1028 1638 =
UT5 TU7 3U6 3A4 TTA TTU TT3 773 354 (Cont'd) AR
7G AGN
NR 078 CK 28 35 1028 1638 =
UT5 TU7 3U6 3A4 TTA TTU TTE 773 354 (Cont'd) AR

A HR 7G GA
NR 079 CK 17 35 10U7 1643 =
UT5 TU7 3U6 7TA TTA TTU TT3 773 4T3 (Cont'd) AR
7G AGN
NR 079 CK 17 35 1027 1643 =
UT5 TU7 3U6 7TA TTA TTU TT3 773 (Cont'd) AR
A HR UP SB WK =

8073 kHz, 27-10, 0007 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA
NR 0954 CK 101 35 1027 0709 =
TU7 3U4 3A4 TAU 773 35U 4T3 NN3 (Cont'd) AR AR
7G AGN
NR 0954 CK 101 35 1027 0709 =
TU7 3U4 3A4 TAU 773 35U 4T3 NN3 (Cont'd)
III = 4D6 AR

8073 kHz, 27-10, 1141 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0955 CK 349 35 1027 =
.. 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 356 (Cont'd)

4243//9054 UTC, 28-10, 1150 UTC

V HR MSG TOYR PSE CY
NR 083 CK 21 35 1027 1605 =
UT5 TUD 3U6 3A4 TTA TTU TT3 773 353 4TA 44D 33U
435 TT3 773 436 467 4D6 3D5 33D 3DU AR
MSG AGN
NR 084 CK 21 35 1028 1605 =
UT5 TUD 3U6 3A4 TTA TTU TT3 773 353 4TA 44D
33U 435 TT3 773 436 467 4D6 3D5 N3D 3DU AR
A HR MSG GA
NR 095 CK 16 35 1028 1606 =
UT5 TUD 3U6 7TA TTA TTU TT3 773 4TA 44D
33U 435 TT3 773 436 467 AR
MSG AGN
NR 085 CK 16 35 1028 1606 =
UT5 TUD 3U6 7TA TTA TTU TT3 773 4TA 44D
33U 435 TT3 773 436 467 AR
A HR MSG GA
NR 097 CK 20 35 1028 160D =
5TD UTT TAD 3U6 7TA N44 3A4 353 4TA
U7U N4A 446 467 3DUTTU TT3 773 446
3D4 4D6 AR
MSG AGN
NR 0.. CK 20
NR 097 CK 20 35 1028 1606 =
5TD UTT TAD (Cont'd) AR
A HR MSG GA
NR NR 56 CK 201 35 1028 1608 =
UTU TAD 3U6 4A4 7TU 7TA 7T7 74U 7UT TTU 773 353 (Cont'd) AR
MSG AGN
NR 56 CK 201 35 1028 1608 =
UTU TAD (Cont'd) AR
A HR UP SB WK

4243//9054 kHz, 28-10, 1201 UTC, i.p.

N4A 434 47A TTU TT3 773 (Cont'd) AR

7G AGN
NR 099 CK 19 35 1029 1605 =
TT TU TA4 ..T5 3A4 35U (Cont'd) AR
7G AGN
A HR MSG GA
NR 0.5
NR 089 CK 20 35 1029 1644 =
UT5 TUN 3U6 (Cont'd) AR
MSG AGN
NR 089 20 35 1029 1644 =
UT5 TUN 3U6 3A4 TTA TTU (Cont'd) AR
AR AR AR HR UP SB WK AR



UM10 - 10-minutes net

3629 kHz, 01-10, 1655 UTC: SDXL
3542 kHz, 02-10, 1522 UTC: HDNA //4113 kHz
3629 kHz, 02-10, 1551 UTC: SDXL
3865 kHz, 03-10, 1628 UTC: KTR4 (new freq)
3206 kHz, 10-10, 1925 UTC: KTR4
3238 kHz, 10-10, 1929 UTC: D6AN

DIGITAL MODES

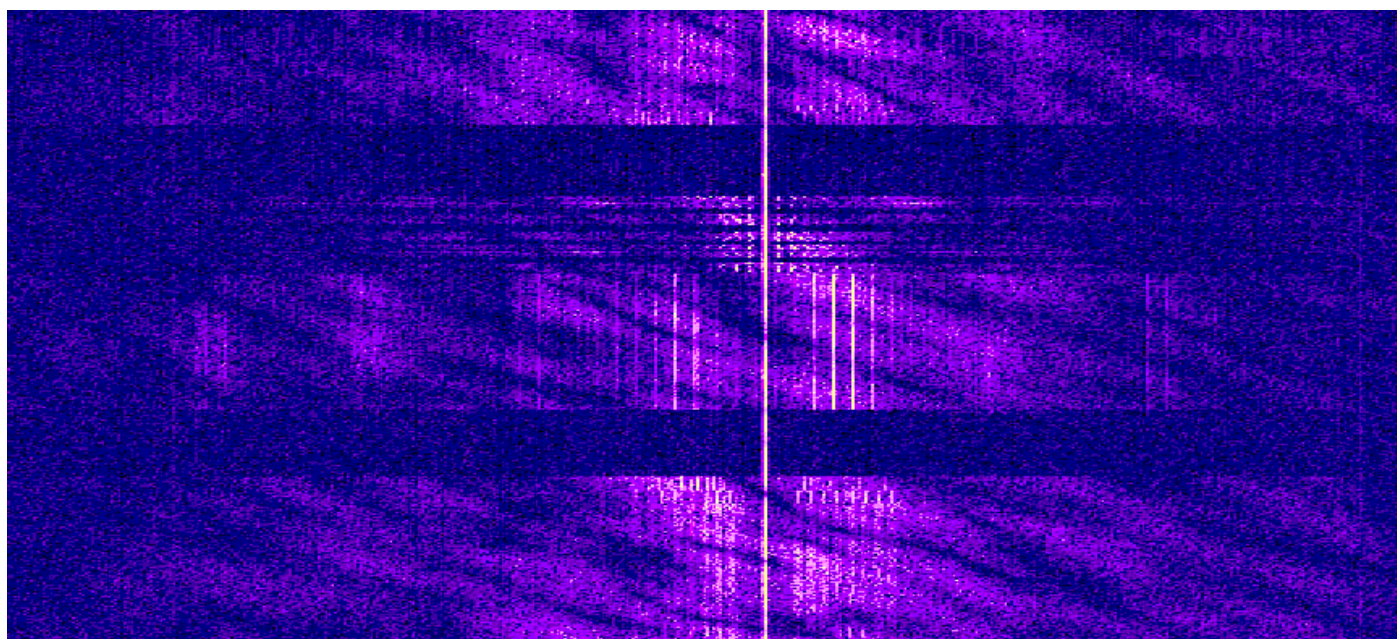


HM01

Dirección General de Inteligencia

Modes: AM voice and RDFT

9330 kHz, 02-10, 0731 UTC it was audible in The Netherlands with a very strong and distorted signal with mirrors at both sides.
Total bandwidth 20 kHz. Groups sent: 14107 28704 37386 12733 07647 80186



11635 kHz, 10-10, 1756 UTC

9 Oct groups: 36467 45463 28584 23552 33845 57004. Interrupted with dead air till 1803z then music (probably Radio Habana) then numbers again

In the period 09-10 / 16-10, the same groups were repeated: 36467 45463 28584 23552 33845 57004. New ones were send on the 17th.

11435 kHz, 19-10, 1557 UTC

Abruptly signed on with RHC music, then Windows sound into middle of 3rd group. 52001 07383 62244 01613 43075 35474

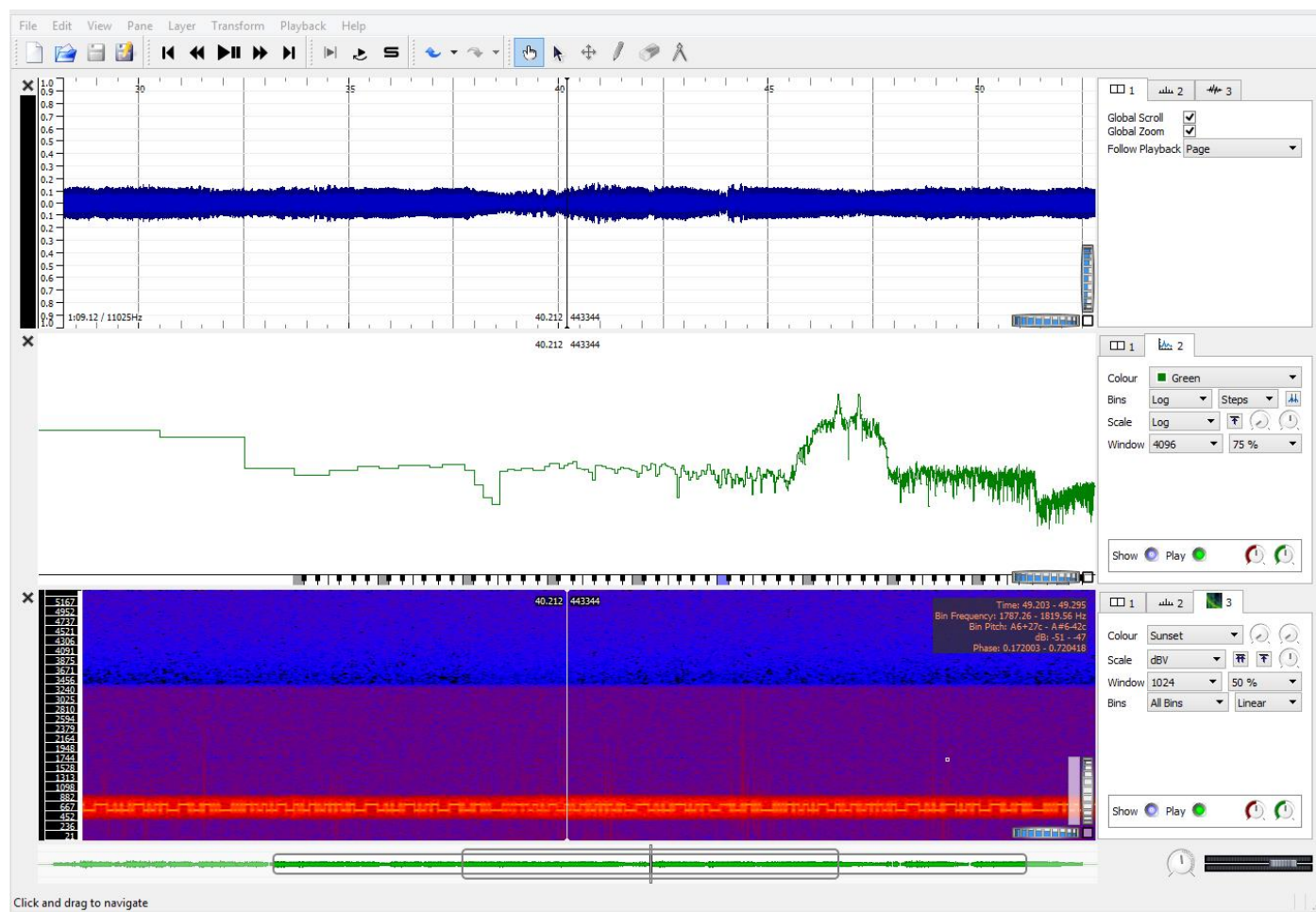


HM02

Modes:

FSK-19.8Bd/129Hz and FSK-CW

Not heard in October. Last year the station also disappeared between October and March.



HM02's FSK callup sequence.

M42 & X06



Modes:

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

Russian Government & Intelligence



M42 – various modes

16288 kHz, 21-10, 0705 UTC, CROWD-36, Russian diplo

M42b – FSK 50/500

Freq	Date	UTC	Day	Details
5328	6-10	0620	Thu	WL4I wkg BFRW. Msg in FSK 50/500 and opchat in CW
5471	8-10	0550	Sat	UOZG wkd WDAK
4958	8-10	1440	Sat	UGW wkg PRIL: QSY 99974
5471	10-10	0550	Mon	UOZG wkg WDAK
5328	12-10	0620	Wed	BFRW wkg WL4I
3825	12-10	0731	Wed	NIRK wkg PE4K Radio checks
3764	12-10	0738	Wed	TBJY wkg EVCR
3231	12-10	1816	Wed	SN7D wkg G5OP
6771	13-10	1332	Thu	LKDW wkg PRAT
5732	14-10	0533	Fri	FGDE wkg CNOX. QSA NO QSY 52144
4984	14-10	0630	Fri	WL4I wkg BFRW. Msgs in FSK 50/500
4547	14-10	0830	Fri	MRLC wkg BZTJ. Radio checks, QSY QSW QSA NO SK
4011	14-10	1722	Fri	G3WM wkg SK8I
5932	16-10	1130	Sun	FKLS wkg BUHN
6837	16-10	1408	Sun	SK8I Wkg G3WM
6877	16-10	1414	Sun	SK8I Wkg G3WM
5774	17-10	1341	Mon	GENP DE MERG QSY 89631 K
5332	17-10	1355	Mon	GENP DE MERG QSY 89631 K
5254	18-10	1234	Tue	U1SK wkg outstation: 354 20 18 1245 1234 = 06416 54006 ... QRU NIL SK
5471	19-10	0549	Wed	UOZG wkg WDAK. Messages sent in FSK 50/500
5833	20-10	0624	Thu	ZE4A wkg EBCW. Messages sent in FSK 50/500
3875	25-10	0321	Tue	TZ9X wkg outstation
4035	25-10	0452	Tue	UW9M wkg L47D: QSY 56663

M42c (F01) – FSK 200/500

20966/18954 kHz, 07-10, 2229/2239 UTC, both 1 minute early. Transmitted from Cuba

Link ID 00116, Date 7th, Serial #45, Groups 150

11177 00116 49183 07045 01509

76242 55052 97768 12032 87463 80497 97513 78095 21327 33238

61609 19150 94968 24653 47471 40483 34615 54669 67564 30025

38505 66734 08081 53511 40118 57851 60912 49014 43251 32606

96808 67544 60553 91504 96743 09660 45828 68534 01778 08978

39725 02480 62656 63417 13082 90108 16788 21389 35412 27791

40478 76808 61452 59388 43505 93462 53200 09809 67214 48498

44196 80936 38950 17198 26759 39979 73504 19414 36422 76185
11306 44753 82735 37480 01645 83122 95546 31206 51944 68108
12988 68202 49815 64686 35742 40272 01619 49969 42023 68928
67353 59597 99052 10206 36948 40844 82427 79939 84080 59091
82876 84898 37071 96301 48666 61782 96594 37828 87604 91222
46023 98686 97268 89881 68048 44296 45547 05764 35373 28308
66971 93712 35702 60737 18476 89639 69756 05276 63243 60436
37494 29382 45432 24741 61687 04969 51602 22273 61007 23107
48018 73471 34424 64984 25727 44056 00403 20869 45148 00000

14434/11439 kHz, 10-10, 0025/0035/0125/0135 UTC

Link ID 00117, Date 7th, Serial #45, Groups 138

11177 00117 68249 07045 01389

90763 76150 65081 22691 04274 03280 37003 49274 25244 38608
92231 83422 45175 71698 13337 98670 48481 68521 99606 49908
93148 96773 71221 50904 01374 11303 21756 54221 72416 57859
27364 79722 16302 15650 03466 02589 50608 37821 05855 07382
30777 69119 08988 03706 92177 97627 15884 56568 48838 75245
05732 72134 94195 74122 16202 29743 56140 31277 98107 60102
51971 31206 87492 44591 28960 64094 54663 99521 30991 34585
73389 55386 03361 87051 10300 45424 99949 81639 33461 56172
29281 24786 37723 72537 68136 40358 50998 02490 12006 39083
87310 05031 80179 10359 48469 29030 33794 99194 20659 56114
37273 39244 49938 32954 39495 57390 72729 05041 79362 12539
18870 52791 96368 46672 74100 64437 34721 79568 95521 59916
21053 21976 82064 33690 48512 97380 92318 74163 85501 26485
62526 91331 52694 46074 37900 22690 45136 00000

17476/16076 kHz, 12-10, 0800/0810 UTC

=8031 542730880606576104
=8432 11408927569679157
=8913 851980217755876111
=8734 637370155616632182
=8275 14041968164218240
=8626 15735885485991293
=8297 88476914273878570
=7858 233703423297994132
=8959 37806356461262645
=79810 30791847327904046
=82611 43628070262740143
=87312 766963775528280189
=80213 937054305917108113
=78614 294485506794975103
=85115 39633437957047156
=82016 656323754638820172
=80217 845118850805850135
=82318 025977786343534100
=87519 018898529793655104
=79420 826474187525582101
=81921 881407693405329145
=83222 165287912952531118
=87323 83359908099061157
=81624 07491317382979682
=75925 170112679314689130
=76226 26267554983768284
=78927 503455542679819189
=81928 725279379333902174
=80329 540553139318666166
=80430 714300976261497100
=78831 831954489034934116

=84732 95755916844940396
=82933 482151759587320141
=81034 06160568024422681
=81335 37280316772148088
=78636 455549604998167111
=81837 77213409305791036
=87038 39712827634091299
=85439 34522839179771884
=87540 26243185371375264
=88441 10428812151919282
=87542 89239652352362664
=80543 8080783716624782
=87244 984882013514311116
=90845 296692771643488127
=84346 713578730932938151
=90747 295997642657774117
=85948 736568913523647110
=81949 90692679173681185
=84550 840260327687688158
=84551 370357743559021139
=87852 461360903341969107
=84753 33234189810237527
=80054 55344388026712290
=88955 78860880511066391
=83856 527226167792916129
=87757 72398659323778816
=84258 607873339804453106
=85759 24479970149002182
=81160 731113600398425158
=85361 29210956501125941
=82262 35469579715590599
=85863 884466922607178109
=86364 105693762357975147
=80065 83130407228711784
=83866 329866529934323132
=84367 04726482487370758
=86768 16841196263380735
=81469 543657222295956121
=87670 074105622521375121
=84471 93996241249806833
=84472 50360798686864866
=85673 487690548269727100
=80674 199766937997448124
=78475 19352431119047032
=86376 818229508987529146
=80777 23157079048707591
=78978 97054272585327773
=82079 50687608548501937
=87680 8618187153602394
=81581 53844229009925781
=80282 90944964597236389
=81683 830836558611969121
=79884 851354172825991141
=82085 16213489943192664
=81086 200664489298273148
=87387 79521229107787437
=85688 291672472906854116
=86289 08137381698310892
=82990 901100376725859128
=87791 332111872536478156

=83492 33193668126152079
=84793 75055025156269177
=80394 227056718880450148
=85495 69868018615811688
=83496 048891126955965103
=86297 19529432384372273
=85898 43168871567412533
=82199 352525297630491125
=789100297564558852568145
=81810103076410952083676
=89110203899467905307197
=825103382513129848588183
=839104019866203744241115
=827105731057232296127151
=85610644983195887513191
=771107448707574976573109
=88710815188175628515674
=802109727653910437774123
=870110185634753281591202
=87011143387620338947583
=819112520468829994605162
=852113165082866581725111
=8391142853895855522578
=78011526033422422746391
=797116369613904835572145
=862117391904003271777124
=811118621696728557911120
=821119574741854120531110
=844120407425298594568104
=85412151531425385832964
=802122151278356149176122
=87612325431275046641894
=799124514179194914312174
=840125597165512401149155
=847126365696706445886154
=77412793734366526954893
=785128502128260655788157
=823129319836050646453149
=88713045799803421599077
=805131031397976073826152
=82613256774488019127711
=891133199889326573625117
=846134970620637458083163
=82513590199825024709264
=86013632694354195489691
=81013767776659313185497
=832138940597734826608148
=838139195305498300050121
=800140573859405902223126
=782141661532211012051104
=86514280718848136379076
=83114349751527304747484
=75814415405258385556696
=85914535287307312431690
=875146598082896627384119
=850147784423270844528150
=772148592430163836446116
=820149433406046676287155
=831150159438992828272142
=82515136411559135597758

=787152366790510111834132
=845153939539838772691150
=83215444540288001699898
=821155265901310941134118
=86015696741686990573895
=820157403850192981378244
=814158133045131283279140
=86115927877752726233582
=82316013348981795266964
=80116109129982033619337
=84116207787918935758560
=82416309228953124976917
=876164906810569594576149
=86116540809697607196179
=84416637598009552880760
=820167243150149900000173
)581168+++++++61

20966/18954 kHz, 14-10, 2229/2239 UTC, both 1 minute early. Transmitted from Cuba

The 1-minute early starts seem to be permanent for this schedule now.

11177 00116 91420 14046 02069
20245 84084 25427 57522 86600 91269 48282 78677 09454 22396
57439 44060 22843 11190 00257 69198 76511 48576 69143 67697
60907 66877 66537 69726 40754 01280 15207 16495 35110 07081
64149 86225 23273 90150 69792 89989 36360 44966 41980 49055
01602 88498 34491 75762 42550 52977 68120 32874 63804 97975
13780 95213 27332 38616 09191 50949 68246 53474 71404 83346
15546 69675 64300 25385 05667 34080 81535 11401 18578 51609
12490 14432 51326 06968 08675 44605 53915 04967 43096 60458
28685 34017 78089 78397 25024 80626 56634 17130 82901 08167
88213 89354 12277 91404 78768 08614 52593 88435 05934 62532
00098 09672 14484 98441 96809 36389 50171 98267 59399 79735
04194 14364 22761 85113 06447 53827 35374 80016 45831 22955
46312 06519 44681 08129 88682 02498 15646 86357 42402 72016
19499 69420 23689 28673 53595 97990 52102 06369 48408 44824
27799 39840 80590 91828 76848 98370 71963 01486 66617 82965
94378 28876 04912 22460 23986 86972 68898 81680 48442 96455
47057 64353 73283 08669 71937 12357 02607 37184 76896 39697
56052 76632 43604 36374 94293 82454 32247 41616 87049 69516
02222 73610 07231 07480 18734 71344 24649 84257 27440 56004
03208 69923 54810 72499 23667 74696 09951 73085 43946 23862
70767 43124 75580 77375 46204 00000

14434/11439 kHz, 16-10, 0024/0034/0124/0134 UTC

The change of dates is indeed permanent, as well as the -1 minute early starts.

11177 00117 72815 14046 02149
91345 85733 89553 86033 61870 51103 00454 24999 49816 39334
61561 72292 81247 86377 23725 37681 36403 58509 98024 90120
06390 83873 10050 31801 79103 59484 69290 30337 94991 94206
59561 14372 73392 44499 38329 54394 95573 90727 29050 41793
62125 39188 70527 91963 68466 72741 00644 37347 21795 68955
21599 16210 53219 76820 64336 90485 12973 80923 18741 63855
01264 85625 26913 31526 94460 74379 00226 90355 87170 60413
02960 93543 64319 10945 62591 77411 91387 49313 87938 84008
68238 50592 68528 36787 26629 70372 35178 94164 35487 33501
45707 89939 46455 56062 69929 65538 67360 26930 87652 40068
54946 83236 22470 49654 64251 61377 12108 90134 85822 06361
05742 00339 04334 24538 11315 81339 75449 67210 13776 39104
11864 34770 74530 72993 02799 52083 59656 30207 47301 67578
89078 03103 67322 15338 28580 86933 74371 39642 02957 46491

23181 38924 51001 33000 22247 98547 86006 43758 10930 26438
67081 98164 85015 97062 89502 72817 79798 89805 20243 73001
58000 47531 42013 00482 20245 84084 25427 57522 86600 91269
48282 78677 09454 22396 57439 44060 22843 11190 00257 69198
76511 48576 69143 67697 60907 66877 66537 69726 40754 01280
15207 16495 35110 07081 64149 86225 23273 90150 69792 89989
36360 44966 41980 49055 01602 88498 34491 75762 42550 52977
68120 32874 46212 00000

20966/18954 kHz, 21-10, 2229/2239 UTC, sent from Cuba

11177 00116 79154 21047 02739
00639 08387 31005 03180 17910 35948 46929 03033 79499 19420
65956 11437 27339 24449 93832 95439 49557 39072 72905 04179
36212 53918 87052 79196 36846 67274 10064 43734 72179 56895
52159 91621 05321 97682 06433 69048 51297 38092 31874 16385
50126 48562 52691 33152 69446 07437 90022 69035 58717 06041
30296 09354 36431 91094 56259 17741 19138 74931 38793 88400
86823 85059 26852 83678 72662 97037 23517 89416 43548 73350
14570 78993 94645 55606 26992 96553 86736 02693 08765 24006
85494 68323 62247 04965 46425 16137 71210 89013 48582 20636
10574 20033 90433 42453 81131 58133 97544 96721 01377 63910
41186 43477 07453 07299 30279 95208 35965 63020 74730 16757
88907 80310 36732 21533 82858 08693 37437 13964 20295 74649
12318 13892 45100 13300 02224 79854 78600 64375 81093 02643
86708 19816 48501 59706 28950 27281 77979 88980 52024 37300
15800 04753 14201 30048 22024 58408 42542 75752 28660 09126
94828 27867 70945 42239 65743 94406 02284 31119 00025 76919
87651 14857 66914 36769 76090 76687 76653 76972 64075 40128
01520 71649 53511 00708 16414 98622 52327 39015 06979 28998
93636 04496 64198 04905 50160 28849 83449 17576 24255 05297
76812 03287 46380 49797 51378 09521 32733 23861 60919 15094
96824 65347 47140 48334 61554 66967 56430 02538 50566 73408
08153 51140 11857 85160 91249 01443 25132 60696 80867 54460
55391 50496 74309 66045 82868 53401 77808 97839 72502 48062
65663 41713 08290 10816 78821 38935 41227 79140 47876 80861
45259 38843 50593 46253 20009 80967 21448 49844 19680 93638
95017 19826 75939 97973 50419 41436 42276 18511 30644 75382
73537 48001 64583 12295 54631 20651 94468 10812 98868 20249
81564 47271 00000

15885/14352/12185 kHz, 25-10, 2206/2216/2224 kHz

An interesting one copied by Mike Chace with an unusual header.

One header for two messages, one consisting of 2 groups and one of 73 groups.

11166 00127 48295 21001 00859
11111 00076 02002 00000 00000 00000 00000 00000 00000 00000
68635 74240 27201 61949 96942 02368 92867 35359 59799 05210
20636 94840 84482 42779 93984 08059 09182 87684 89837 07196
30148 66661 78296 59437 82887 60491 22246 02398 68697 26889
88168 04844 29645 54705 76435 37328 30866 97193 71235 70260
73718 47689 63969 75605 27663 24360 43637 49429 38245 43224
74161 68704 96951 60222 27361 00723 10748 01873 47134 42464
98425 72744 05600 40320 86992 35481 07249 92366 77469 60995
17308 54394 62386 01073 00000

20966/18954 kHz, 28-10, 2229/2239 UTC, sent from Cuba

Link ID 00116, Date 28th, Serial #48, Groups 245

11177 00116 29465 28048 02459
29050 41793 62125 39188 70527 91963 68466 72741 00644 37347

21795 68955 21599 16210 53219 76820 64336 90485 12973 80923
18741 63855 01264 85625 26913 31526 94460 74379 00226 90355
87170 60413 02960 93543 64319 10945 62591 77411 91387 49313
87938 84008 68238 50592 68528 36787 26629 70372 35178 94164
35487 33501 45707 89939 46455 56062 69929 65538 67360 26930
87652 40068 54946 83236 22470 49654 64251 61377 12108 90134
85822 06361 05742 00339 04334 24538 11315 81339 75449 67210
13776 39104 11864 34770 74530 72993 02799 52083 59656 30207
47301 67578 89078 03103 67322 15338 28580 86933 74371 39642
02957 46491 23181 38924 51001 33000 22247 98547 86006 43758
10930 26438 67081 98164 85015 97062 89502 72817 79798 89805
20243 73001 58000 47531 42013 00482 20245 84084 25427 57522
86600 91269 48282 78677 09454 22396 57439 44060 22843 11190
00257 69198 76511 48576 69143 67697 60907 66877 66537 69726
40754 01280 15207 16495 35110 07081 64149 86225 23273 90150
69792 89989 36360 44966 41980 49055 01602 88498 34491 75762
42550 52977 68120 32874 63804 97975 13780 95213 27332 38616
09191 50949 68246 53474 71404 83346 15546 69675 64300 25385
05667 34080 81535 11401 18578 51609 12490 14432 51326 06968
08675 44605 53915 04967 43096 60458 28685 34017 78089 78397
25024 80626 56634 17130 82901 08167 88213 89354 12277 91404
78768 08614 52593 88435 05934 62532 00098 09672 14484 98441
96809 36389 50171 98267 59399 79735 04194 14364 22761 85113
06447 53827 35374 48243 00000

M42d (F06) – FSK 200/1000

Link 16404 / 16405

16246/14383/12158 kHz, 11-10, 1400/1410/1420 UTC

Link ID 16404, Date 11th, Serial #3, Groups 139

1be9 4014 7f0c 6e07 98e7
2b15 a149 18d5 1282 b359 822c e98c 8806 b579 73a6
da2a a5f8 7295 a0c3 3984 d519 34ef 38da ddd4 bf88
32f4 5879 7c69 2637 2d97 483e 3416 35a2 16a1 6f56
454b f212 879f 63ea 1ee5 fc62 7db4 371e 16d3 f352
27f8 f5d1 021e 19a3 1201 0208 4d81 037d 76f6 185d
fe33 01d5 ea7f 112c 5027 4657 5d8a b901 919f 6393
028b 1fb0 6b8e 0a72 7868 2d67 1bc1 b14f c23f ae72
ad2a 5437 c2ef be21 4a79 854f 3d84 707c aac7 ee3c
5e4f d12b 3936 c0b2 b04d 7b89 67cb 7634 e801 8234
58cf 7801 a445 0013 25f8 c603 7ff7 76df 4fbb 64a5
128b 2ee9 6441 ef83 e94c 49ae 7600 4bbd 052e dd50
eef9 017e 5a29 02b7 e6f0 9693 862a 3947 5647 11c8
3201 0217 4ddf 7c7e 5423 2a79 7b17 5099 0d20 59cb
89e7 63e3 29c8 76cb 2dd2 5ffd 6de6 3f50 1f7d

20018/18325/16249 kHz, 12-10/13-10/26-10/27-10/28-10, 0800/0810/0820 UTC

Block No 1 : Link ID 16404 : 11th of month : Msg Number 012 : Msg Type 07145 : Group Count (?) 226

13812 19809 00971 34882 59836 34620 59396 50013

Link ID 16404, Date 11th, Serial #5, Groups 207

1be9 4014 35f4 6e0c e2ea
03cb 4d61 738c fd3f 3570 a689 b86a ab3a 2758 0952
9593 0a29 7cc5 8eca 8dbb a6e9 01ca 0240 f06c 65cd
4198 45a8 2a83 5180 eb1f 8ee9 fc06 f83d ce99 2815
5138 a4ef 48de 1b86 3f78 b619 2412 f5b0 e98a 9420
1de4 75cc bd13 5de0 894e b483 df1e a9e5 6dea 9116
bc75 aede 0c9a 0841 613e 275d 1039 a7a5 6632 7d07
9425 1b3c 6332 d54a c555 7e8a a562 6eec 40be 7ca6

0148 7315 abc5 7138 34a5 036a adf8 2d0b b0b2 8fb7
d563 c6e5 908d 6f13 54fb 8f31 b22d db76 3206 de92
c958 2725 6e56 bc3e 7f9c 2469 0050 ce84 0190 c953
345d 5749 1bcd d695 9634 1b0f a9b8 85a1 a33c 74bb
8aeb 61de 4216 1c42 6948 b958 97d0 d87e 3cba b205
14c7 7306 050c de82 ef7c e928 11db b704 e2bc 2d81
d0d6 14bc 218f 4889 0d29 a6e6 f7ea a505 2bcc 32b6
1e8a baa3 df28 e6cb b0a9 d0d1 aa7e 6d44 a527 b87b
602d 94bd b167 8a53 1a68 9ea1 49c3 196a 0d36 7625
6735 2a2c f196 9684 35a3 94d6 5bdd b905 f5b0 6502
2e03 b1c9 689f 376f 0d8e 2502 30d7 b193 e5e7 c55c
7585 037c e0ad e251 9bcc 379a 7ad1 0be5 0dbe db57
a453 249a 0caf 14e9 ac23 6b75 f6e0 a4d0 5147 d79a
524b 2787 03a0 b37d 8d72 4c6a 8829

13546/11535/9256 kHz, 14-10, 1500/1510/1520 UTC

Yet another unexpected encounter of this link ID outside its scheduled time slot.
Judging by the serial it seems to be active daily, but at a different time each day. (Danix)

Link ID 16404, Date 14th, Serial #6, Groups 167

1be9 4014 8a1c 8c0f b6f5
2ce4 a911 5ff8 d534 4b4f 79aa 63b0 50d9 efe3 05b1
3a66 b81c b896 3678 0f9c 6bb6 2cd1 2b74 ff4f 1c61
91b8 abc3 4136 b68f 03dc 8b76 b4f2 d41d 1f6a 8ff8
3094 1d81 b123 283e 99bd d232 d4f4 59c3 986c 23fa
a0f1 d14a 396d 3598 5297 cf0a 24f6 0921 160f a0e5
1b01 74c5 e296 975d 941a a093 d5b4 2b90 933b 1ca8
cef7 4595 37bd 0ce0 dd91 e962 caac 4ca5 b17a f357
a1ac f455 0153 7c35 8d9b 4e64 1c41 2c87 8d11 6d1f
7978 5ba2 b197 eeb4 7219 3ca3 16f6 a617 9b4e 5f0c
12ed 54a3 b2a7 4fcd 1764 2872 5d47 6d2b 48d0 3375
22ee b789 c330 dc17 c1d3 30bc 4075 dcbd 681f c3c5
2836 e6e7 1eb2 4872 9b54 07c0 563e 943a 754c c374
5656 96a1 31d7 26b1 4fce 15cb 7388 97a7 0220 2cb5
605c 847e 5ab7 cbba 8a84 5334 430a 42d2 000d b832
2a14 2bb8 5acc c91c cf8a b9d6 ea6b 7e20 1052 2d71
ba4b c868 362e f25e 2f66 13d4 3f19 8ada 214a 1e2a
ad93 b0dc adc3 9df8 cb1c a7e8 b400

Link 20492

17458/15884 kHz, 12-10, 0925/0935 UTC

Link ID 20492, Null message

19476/17458/15884 kHz, 26-10, 0915/0925/0935 UTC

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

Block No 1 : Link ID 20492 : 26th of month : Msg Number 065 : Msg Type 07145 : Group Count (?) 4

47089 00000 00000 02136 31284 01577 00893 32959

Link 20501

14859/12184/10273 kHz, 02-10, 1530/1540/1550 UTC

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

Block No 1: Link ID 20501: 2nd of month: Msg Number 002 : Msg Type 07145 : Group Count (?) 4

01476 00000 00000 00570 26517 35141 00893 08024

13426/11116/9175 kHz, 04-10, 1650/1700/1710 UTC

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

Block No 1: Link ID 20501: 4th of month: Msg Number 000 Msg Type 07145 : Group Count (?) 4

39180 00000 00000 02678 12857 36459 00893 42236

14859/12184/10273 kHz, 09-10, 1530/1540/1550 UTC

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

Block No 1 : Link ID 20501: 9th of month: Msg Number 145: Msg Type 07145: Group Count (?) 4
56988 00000 00000 03394 12857 03429 00893 09783

13426/11116/9175 kHz, 11-10, 1650/1700/1710 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 002; Msg Type 07145: Group Count (?) 4
01476 00000 00000 03403 26517 36009 00893 44681

14859/12184/10273 kHz, 16-10, 1530/1540/1550 UTC

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

Block No 1 : Link ID 20501 : 16th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
51652 00000 00000 02918 21447 35746 00893 59835

13426/11116/9175 kHz, 18-10, 1650/1700/1710 UTC

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

Block No 1 : Link ID 20511 : 18th of month : Msg Number 159 : Msg Type 07145 : Group Count (?) 4
56988 00000 00000 00063 30265 44130 00829 61671

14859/12184/10273 kHz, 23-10/24-10, 1530/1540/1550 UTC

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

Block No 1 : Link ID 20501 : 20th of month : Msg Number 145 : Msg Type 07145 : Group Count (?) 144
62228 41764 13480 18214 16418 03920 25725 36784

Danix noticed an interesting thing: Like back in August, this link has sent a message the same week as Link ID 49237, with the same date and the same group count. They have sent messages independently of each other in the past, though.

Link ID 20501, Date 20th, Serial #58, Groups 132

1be9 5015 f314 c891 90f7

34a8 a324 cbdc a8e2 a03d 479c 7482 7b9c c011 99ad

ca7f 4832 85d7 1965 19ed 0645 414e df95 c7c9 4f22

3bf0 d986 3e14 0c48 72ba 24ee 246e 1dae e817 41b4

827e 2149 eab9 caf9 6322 f056 2d84 a70f e8b1 30ee

d240 b9ce 296f 0278 b008 1c25 8312 571d d6b9 e080

e034 258c ae45 4511 454b 340f 3141 2016 b881 8a41

c9df 4b9d c6c7 e524 d694 104a 9372 ced7 02b9 e90c

e5fd e875 5a2d ec3f f23a 6b85 35ed 9f21 f511 050d

0a7a 4ca4 01f0 3633 2152 e7e9 6edf 32fa b201 84ed

7bee 02e7 31c7 2827 b720 2c10 d6dc db5f 1e92 0b08

392c c38f b28f 1941 e4a8 2353 ef48 dcfa 279c fdb3

4e04 34b1 6732 86a2 4684 9561 ab94 1698 1e16 8c31

e814 4335 8093 0280 5304 e6d9 d331 75a2 85c1 8e47

8bd8 8e00

13426/11116/9175 kHz, 25-10, 1650/1700/1710 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 002 : Msg Type 07145 : Group Count (?) 4
51652 00000 00000 00403 21447 34457 00893 45096

14859/12184/10273 kHz, 30-10, 1530/1540/1550 UTC

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

Block No 1 : Link ID 20501 : 30th of month : Msg Number 147 : Msg Type 07145 : Group Count (?) 4
39181 00000 00000 04001 12857 33460 00893 19549

Link 32816

15779 kHz, 12-10/13-10, 0620 UTC

Block No 0 : Total Message Size 84 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 32816 : 8th of month : Msg Number 220: Msg Type 07145 : Group Count (?) 46
50288 26633 05153 39069 59615 04157 30869 53432

19268/17548/15779 kHz, 19-10, 0600/0610/0620 UTC

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

Block No 1 : Link ID 32816 : Corrupt Date : Msg Number 145 : Msg Type 07145 : Group Count (?) 4
07480 00000 00000 00540 59615 00234 00893 12939

19268/17548/15779 kHz, 27-10, 0600/0610/0620 UTC

Block No 1 : Link ID 32816 : 22nd of month : Msg Number 225 : Msg Type 07145 : Group Count (?) 161
33356 40296 32037 28912 57567 08035 02352 17239

Link 32821

22963/20461/18356 kHz, 01-10, 1500/1510/1520 UTC

Null message

22963/20461/18356 kHz, 08-10, 1500/1510/1520 UTC

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

Block No 1: Link ID 32821: 8th of month: Msg Number 075: Msg Type 07145: Group Count (?) 4
15080 00000 00000 01687 16767 02966 00893 48930

22963/20461/18356 kHz, 15-10, 1500/1510/1520 UTC

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

Block No 1 : Link ID 32821 : 15th of month : Msg Number 075 : Msg Type 07145 : Group Count (?) 4
65180 00000 00000 03986 13740 00432 00893 22834

22963/20461/18356 kHz, 15-10, 1500/1510/1520 UTC

Null message

22963/20461/18356 kHz, 29-10, 1500/1510/1520 UTC

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

Block No 1 : Link ID 32821 : 29th of month : Msg Number 075 : Msg Type 07145 : Group Count (?) 4
14321 00000 00000 01309 16767 03610 00893 40192

Link 36882

17423/15628/13385 kHz, 01-10/02-10, 1100/1110/1120 UTC

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

Block No 1: Link ID 36882: 30th of month: Msg Number 165 : Msg Type 07145 : Group Count (?) 72
34253 34038 63229 39846 34728 07728 59525 35212

Link ID 36882, Date 30th, Serial #66, Groups 301

1be9 9012 85cd 2ca5 48f0

f6fd 84f6 e983 5053 2b80 7d1d 97a8 6a8e c133 7cd1

a391 a1c8 98c8 9cb6 8a08 fc33 6f5e f296 4d20 4775

964f 475d 6760 c8ab 2267 b31f 25c7 477e b782 4cf9

288a bc88 b3e2 4931 a906 a829 4610 1b4a 7f6e c9c6

44b1 34b5 df05 79f0 49a7 95db f056 9123 b4e1 6756

e430 deef 2d02 f4ff 12ec 9c7f 6f4d e124 9141 d1eb

2d75 f4a1 24cb 3b01 9493 9b92 562c 7dc5 00b9 bdb7

bc82 ddb0 b033 2dea b2e3 b6c0 eba8 96ba 6232 f2ae

255e 1c32 8aad 18ad 83c7 b4e0 939a b200 87a2 3993

19b3 e1c9 dbf2 d348 1539 9c74 3b82 52c5 7a75 b2a7

2599 7940 68ad c721 8b8d 0163 96d8 68f0 fe07 54ac

6d4d 9df6 2cea 5f94 cfba c121 ef71 6283 9919 5315

7036 bd53 89a6 9593 547e eab1 469d 9408 b0a0 2d7e

664a 2673 02a6 8ce2 a991 6af5 472d a29f 1e04 e818

94a9 6762 b92f 2b6d 38c2 e38e 627f dff1 e1c8 54ad

0940 87e5 e47c 946a 8b0d 72d3 34c4 3df5 d17e 42c1

4f57 4591 e258 67e6 608a 3bcd 2aea e293 81c2 7c30
791f 99ad 889b 2ab9 770b a0b3 d390 2c63 7678 44c6
1450 799d 5d79 6f56 7369 6ed1 4411 4b0e 71cc c4b6
f2b9 bff8 c998 84ba 39d3 76d6 73b0 c446 a89d 24b8
be7d b821 e100 faf0 6ba6 7923 0b9c 9d93 7a02 3727
b5dc e634 94d2 383b 0c49 3d0e 9c65 4682 90b4 6706
4a20 990a 9c0e c3d5 7376 f903 bc45 c2fd a7ee fc1f
93b2 a0f4 7916 4e4d 0042 5810 e6da 0b03 e6f1 a053
655c fd48 ff4d 3c78 b491 fd76 b330 22d3 fc80 4d68
b9b3 4814 386b a3d4 7b7d 4a82 0452 1811 0d21 2496
0f22 97d8 3cd7 f714 702b a964 be15 62d3 3866 e8cf
1db4 b6b0 b0c3 0c43 5409 53c0 fc44 fc1d 5061 af51
85f9 72d0 b46f 332f 4209 6b7e 4b01 f603 c757 3313
2c7b 777d 8f88 67b7 4e30 2d53 4a3b 6bed 54f2 1788
9741

17423/15628/13385 kHz, 08-10/09-10/15-10/16-10, 1100/1110/1120 UTC

Block No 0 : Total Message Size 25 blocks : This transmission contains one message.

Block No 1: Link ID 36882: 7th of month: Msg Number 167: Msg Type 07145: Group Count (?) 158
02860 44759 45862 36878 31234 33432 07999 38990

Link ID 36882, Date 7th, Serial #67, Groups 145

1be9 9012 0b2c 46a7 9ee5
b326 aed7 e983 512f 93b3 7f36 97a8 4825 8100 95d1
a390 767e 4579 8be6 3d39 d638 3975 9b20 2708 9c4e
7747 70e6 8af6 eb60 9264 b853 9f27 3414 a417 7530
3534 f274 a703 a7e4 1782 a670 eaa7 09a8 3ddb 0f84
0049 a4a5 f098 f837 d638 eb40 ca2c 87ae 5cd8 3634
4ea1 e123 f2d4 ee81 96f4 a5a6 cdf2 e688 aea9 bd08
7750 4f12 7766 f554 d401 de5c ac4a ed3d c195 0a74
6e20 4ce9 41f5 6456 cd9f cdea 6d46 1eaf 4303 2986
70f6 52ae bfb1 bea0 6c68 3bb9 47e8 2df2 9508 1a19
ede8 6ef1 8ab2 9498 5d09 618e 6aa9 062a f0bf 8230
8d06 15d0 c900 4ddf 4f6f f190 1771 2f4a 56f8 3116
66ed e646 4697 fbe8 a056 445c 56a7 8799 bdf4 c3ae
b460 a5de ac3c 96f4 abf8 d028 e291 6c81 ad2f 7c1a
4f49 9575 9e1d 9d28 1d59 681f fa24 1d95 bd06 5dab
9851 5eb3 ee90 429c c000

17423/15628/13385 kHz, 22-10/23-10, 1100/1110/1120 UTC

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

Block No 1 : Link ID 36882 : 21st of month : Msg Number 170 : Msg Type 07145 : Group Count (?) 38
06020 48599 64186 37959 43092 04906 52471 19020

Link ID 36882, Date 21st, Serial #68, Groups 270

1be9 9012 1784 d2aa 26eb
faba bdd7 e983 5000 6860 2336 97a8 5e18 4124 95d1
a391 9796 1189 897b b810 e9e0 7ac2 e51a 394d c1ad
5923 24da 8f53 c553 da20 46b0 4968 133b 2bbe 2a95
b3c4 7508 3886 90e3 ce87 3501 ad38 7925 e076 dedd
47ee 5f37 4f25 9d43 b7e2 d3b9 7a2f 1e29 e8be c875
9960 e1cd ec1f db6f 1534 60ad 480c 8d25 ebf9 695b
546f 5e1e ebc1 c63b a002 d599 07b9 2f68 b615 ac7e
e6f0 b5e4 b78c 00f4 6bef 2755 04df 433b 9982 d96e
7b8e 3b21 ea6a 4ddb 43fa d3a7 09f8 a05e b6c5 5d28
b50f 005f ddc4 9b91 b9bc b796 9723 01b0 ef0a a6f6
2e1e 8975 60c6 7d66 a3e0 b871 27a3 18c9 7e83 eb12
1cd4 9a7a 6b57 dea6 28af 1048 a17c 5d75 1b7a b21e
16e9 0078 d5f7 b8cf db45 922e 0b60 41d9 3d36 4460
c5a3 1433 6317 b16a aa13 4090 7515 315b 5002 88f5

4e1e 08c6 7fe3 a67e e464 ceb8 1bcf 1d72 1357 3a72
9e7d f52f 3d5d e899 40c1 cec4 a2dd b672 d7e7 7c37
3c35 efb7 f0a3 5e49 515d 08a8 6735 bbea 7715 c683
a76b 9a17 c5bc 10b3 dab5 9913 5ec0 a596 d9b9 78f7
24c2 ea85 8213 2b36 2194 15d6 f614 8f61 8e62 1e37
93b2 7806 11ae 15ee 6a26 a721 fcda c014 f73c 3a52
52eb ca00 226c ce5a 9d09 bc73 ac7a 28aa 66ed 227c
1255 3905 bbd5 0c0c 3b50 94ae 0d8c dc70 6722 5bba
9771 f70a 90e2 06f4 f949 5d25 157a 2ba4 da52 8681
07f0 b697 54b4 c60c 4431 bea4 718d a397 d7aa 7cd4
6dc3 429e bce1 bfa0 30df dc14 3157 8063 aa34 0d96
1a66 1507 e1cb 0f97 66f7 d632 4700 4557 1cac 028a
4c49 af17 e5e2 f254 a70e cf0d d87c 5486 b86a ae60

17423/15628/13385 kHz, 29-10/30-10, 1100/1110/1120 UTC

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

Block No 1 : Link ID 36882 : 28th of month : Msg Number 175 : Msg Type 07145 : Group Count (?) 150
07549 48119 59071 40854 31234 00769 29733 53989

Link ID 36882, Date 28th, Serial #70, Groups 137

1be9 9012 1d7d 18af 96e5
e6bf bbf7 e983 5133 2d10 0536 97a8 4945 0121 15d1
a391 a781 e529 e22b 1f2c b316 271d a662 4ed7 2f69
5a95 5dd5 2fa3 e022 3dac babe 47dc 8866 86bc dcd5
48c5 bd7a 4b6f cbce 4fa5 9bb9 ce65 9643 98a0 6c11
ec97 c0c9 ed58 eea8 a969 7e19 1bfc ff51 1080 dc6e
3687 ac4b 9f1c abb8 90cb 47ea 70e9 5f37 52a1 255c
2c0f 86c2 51a5 7be6 e132 f3a4 e5d2 31db 8a8c c97c
57ac d6d3 eda7 e915 1476 b79c cb5c cdac 6d80 c6b4
e1d2 e134 5069 95c9 37b6 69e3 28eb 1056 854d c7af
7a58 898b 2653 5a42 eca9 0a2d da27 bb8b 899e c2e4
29b0 6a8a 8bbb dff3 dd54 b22a 3722 7cd7 715e b390
8def 0ba2 8a1d 1f60 8cc5 4f8e 087f 8cd9 9def 9392
41d0 0ffa 0a52 d9b4 b72b 0500 7005 ae59 1673 e6ee
76fe 7d0d ff70 9f9b b1b3 8608 903b

Link 40988

10521/8044/6941 kHz, 04-10, 2300/2310/2320 UTC

15813/13389/11044 kHz, 07-10, 0600/0610/0620 UTC

Link ID 40988, Date 29th, Serial #71, Groups 350

1be9 a01c 3639 22b1 7de8
678e edd8 afd7 4ed8 be03 38e1 c29a d7d9 d648 f541
e268 98c4 8e05 b2b4 caed f027 8e51 5aec 13d0 3cd6
7b9c 3891 0609 3c5d 59fb d75b 9cad 0328 fd95 47e3
f0a9 8b3c a6f1 082c 970e f9ba c994 54f8 fe9f 34fe
dfdc caa7 5a37 74f8 11a4 36cd 555e 76cc 115f f1fa
2014 4449 4e94 175d 851e 2c88 ac61 6723 97ac 1caa
0d91 9025 343b a193 0441 5b6c c07b ac1d 9e00 ce0e
3492 b157 cdc7 2d0c 42b6 0fef afe0 fac5 73b3 a52a
70ce 1734 cc31 7075 c31d 4848 06af 22ea a8d8 de82
be15 ef49 a434 cc8d 5f88 1026 9938 581f e246 c927
bade 6314 dbd6 3047 b272 c5cd 27e0 d0f0 780d b014
f4ec 06a6 5dbe 6660 311c e54e c4d9 1c8e d9af cd4e
18b1 3e5a 78d5 1f08 fe00 97e6 8ac1 c944 f0c0 ce38
e20c f21a 5ca6 76b4 0534 749e 6e03 d93f 1b2a 6657
4db5 16d0 0cb0 757e 52e4 3273 2a51 dddd 0167 05cd
9134 9495 1ad0 8f68 f288 a2e8 6a68 c1a0 20b7 41e3
7e9d 8f29 bb15 84d6 ba75 9621 1f07 1b8b 0f17 e682
8407 120c 6123 bb61 7a53 8172 2ee0 24b5 1543 237c

2339 5404 3537 9e31 4fe8 a74f 4490 7708 271a f4ae
5414 d655 cce3 10af c036 190a 14a3 1b35 2155 0006
1bb3 166b 3d7a 794d 96c7 d541 eb7d 376c 63b9 3050
fb65 d9c3 19e8 e028 4287 5273 8be2 01ab 6c57 3fbd
cf16 725d 1cb9 fe2b 6229 fb06 6c61 f1e7 400b 1fa4
ce83 4feb cc85 6813 ff77 dab9 745a 5a4d 7463 8e02
9c72 36b5 9b3e cb4b 0297 a0aa 96f0 8dca 72c6 951e
b418 4b4f 354d 5161 761f 9956 8d13 db8e d889 20a3
5f90 7faf 45c0 e278 2dac 8ae2 eb7d d613 ac1e f47e
b13b 65df df00 7c0f 0a82 aa7b 4c96 984a 33d3 90d8
a642 e652 9194 5a91 5a40 f0db be9a 8250 4839 c123
e165 1ecc ea6c 6f78 40e9 3785 dc89 1212 516a 3f1e
a942 f8ca a176 ce2f b6d5 5f46 87ed 2fee 204b db29
05d9 8416 382d ac13 678f 0a4f 4007 2016 48bb d4b2
f9dd 5d1f 9142 e086 5436 b021 275d 092f f76b db9b
5b56 12fb 2924 ede7 a50b 8697 97ca 2f85 ee08 a7e1
347c a602 ccc6 06f9 4087 ba2c 0080 b972 91a4 89e1

10521/8044/6941 kHz, 25-10, 2300/2310/2320 UTC

Null msg on link 40988

Link 41018

16320/14880 kHz, 06-10, 0200/0300 UTC

Block No 1 : Link ID 41018 : Corrupt Date : Msg Number 215 : Msg Type 07145 : Group Count (?) 245
32768 14278 65030 12156 21686 02012 42420 34294

16320 kHz, 21-10, 0200 UTC

Block No 1 : Link ID 41018 : Corrupt Date : Msg Number 245 : Msg Type 07145 : Group Count (?) 245
32776 64264 17245 22006 05174 00885 16433 60536

Link 45057

18919/16268/14486 kHz, 08-10/09-10/22-10/23-10, 0900/0910/0920 UTC

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

Block No 1: Link ID 45057: 7th of month: Msg Number 220 : Msg Type 07145: Group Count (?) 80
26184 58673 32833 00639 49814 00690 65344 54391

Link ID 45057, Date 7th, Serial #88, Groups 73

1be9 b001 660c 46dc 50f0
8041 e539 b61d 5992 b68d 1aa8 0118 2e17 4f56 e108
13d7 432d 127d 1935 c50d e946 6144 4941 33d5 083b
a0f1 7142 4b63 eb6b 783a facf b143 5e7c ab34 f343
e363 e949 7db6 b8a6 d3d1 8714 c949 4388 1401 beea
8631 ba0a 774d a049 879a 4564 091a 85ba df90 b7c2
1f05 44e1 e3cc 2c51 eed3 21aa 9eaf 5a62 1f5b 0d99
20e2 cdb2 e755 9d84 41f5 7176 4c31 9edb db8b a10e
d25a c588 c300

Link 45075

18546/16231/14629 kHz, 05-10/06-10, 0800/0810/0820 UTC

Block No 0 : Total Message Size 46 blocks : This transmission contains one message.

Block No 1: Link ID 45075: 4th of month: Msg Number 027: Msg Type 07145 : Group Count (?) 54
10872 14713 19333 12014 19299 39950 28834 23501

Link ID 45075, Date 4th, Serial #11, Groups 285

1be9 b013 2a78 281b 36f0
4b85 3979 e6ee 6d11 b969 a20f 4762 1016 f5f1 a682
e9e6 3308 11a4 0d76 a653 6f67 8790 0102 dd68 ac3a

0a2a d202 3d83 c3ab 3b35 d40d 708e 67c6 10d6 2291
5a4d cb10 6143 0d9d 0fd2 be65 2b33 20db f5b0 8726
dc28 e70f c83a cff7 1b9d 8a1e 2187 1b49 a1e1 7020
16a4 5f2f 26eb 39d0 1e5a 468b 55e7 c261 3758 61ad
ef9c 6a92 d75a 1704 3705 bdab 59f1 eaa8 c386 623c
84fd 7840 05c1 05bd 046c 81c0 6eef 91c8 87c2 b65b
7072 6af7 d886 b65e 5f1a 7826 7048 9c2a 79da 5a5c
871c c18e 3324 4965 32ff be5e c453 dfc4 8e66 9971
bae6 86ed bf68 94cf 16be 6a9d b776 3143 0dbc e01d
e129 047a b1cb dd29 4caa a643 0cbd b976 b443 acac
e0a0 8bd1 d0b9 63b1 0ac8 e2c5 c37a f628 111b cdec
ab65 90ee 472e 8f55 9de7 f06a fd88 17e3 ac01 b2f9
8b44 aa55 4c23 0763 31cb 6146 d47f 0490 bb44 ea11
9307 d9df 897d 2ced 881d 6d32 3a08 70f4 538b 5c25
36a9 0d44 4769 27e4 2a7c e6aa 659c 0787 fc49 6909
017b c04f 21cd 4644 5ce4 6dfa 7282 2287 2446 a4e8
224e 6493 78e7 c4e3 bb44 c834 0e6e 980f 1fec 82cf
f4e8 5b40 ec07 5e26 dfbf 4ff4 c98a 0f11 af89 231d
704b cf61 0f5f e2e6 c226 bd10 7554 2785 82a1 1814
9575 1168 44f1 4c17 e72b 6d6b 43c3 a7de f0e4 9008
5560 ba89 3843 5358 436a d5b4 630d 9eae 4616 e976
8b67 ca45 1bb3 43c9 034e 106c fb6d a7c2 17cd 2f46
e153 5436 16a1 ff41 a6d8 94dd f7a1 26e4 1c75 0ec5
f333 cea7 68db 6e77 00fc 72fb 3d3e 7c3b 629c f8b0
5648 db9f f01c 46b1 2d4c e163 69e6 0d99 188a 5423
11fe f66a 1950 9f8f d094 d2e5 542f 83d9 8d22 5044
eaed c746 bc0d 94dd 4000

18546/16231/14629 kHz, 12-10/13-10, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45075 : 11th of month : Msg Number 030 : Msg Type 07145 : Group Count (?) 22
35124 25460 19623 26530 14597 04358 49860 05312

Link ID 45075, Date 11th, Serial #12, Groups 256

1be9 b013 8934 6e1e 16f4
4ca7 6374 b3ec 6e5d 9538 87ba 459f cb0b 8779 79ca
a596 cf21 28c1 20cd 3488 47a4 9c55 4d6f 192e d28a
3ccf d5b5 0338 c7ba d028 e772 1f27 2a0f 7b58 9db7
48e4 da80 98ab 5e35 2508 be57 6ba8 90f9 b038 365c
848f 7021 9269 f6b7 d031 23fa 4188 c66f 176c bcb2
5916 6cca 3832 49f8 dbb6 6022 fe2b 4a62 84b0 fba7
a31a 923f aedc 95e6 d253 24c4 90d5 58ff c099 9082
84c4 2988 2ad4 c834 9d05 c72f c1b3 159f 2fb3 a90d
3ed7 12b1 f1c7 b1a7 2a1d 6715 6189 d093 8d74 ce93
5749 1456 da97 c2cc 5e6f 2c27 b1c5 54bd f32e 1371
5ef5 55cf 0a26 2e87 a517 7ba7 e296 c259 dba3 be60
40e1 7027 ea17 6fa4 dbf2 ef3a dcef 094e b4f6 233b
def6 cac9 17cd 18d2 bfe5 b800 062c 2b48 58b1 db6f
fd33 49f7 1519 84a9 6117 8d6d 2a94 da28 6b84 d7b2
8054 7bb2 3d89 7c8c f188 5643 4250 1008 c792 8de5
ae29 38ee 9188 a5d2 1199 76c8 470e a1f4 c973 782a
07b9 d856 e274 d3f4 b7a2 c67b 8b7c 34f2 4e13 3c71
b051 d5a2 d2a8 f1d5 53de 714b a729 8f9f 33bb 604e
a7c6 2fbf dc28 e6a6 3670 e04f 59e4 8997 7d64 6f7b
5215 490c bd98 7331 ecd6 13cd ed9b 51c3 ba4a e73c
9984 c340 b779 f8c8 ec18 218c ec41 2733 0ac8 87e4
5726 4828 d915 e1d4 b094 6ec8 4844 f289 11a7 07f2
d172 eb2a 3202 a86d a16e 9161 3ab1 278c 5be1 6bd9
953d 0a59 17a1 40e0 c374 6c6e 90dd 2f71 24f5 f756
2045 fef7 76e6 a1c6 55ed a1d3 13f3 68cf 5998 dd0f

6727 7b00 b975 5405 38e5 8000

18546/16231/14629 kHz, 19-10, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45075 : 19th of month : Msg Number 060 : Msg Type 07145 : Group Count (?) 4
46532 00000 00000 00809 26649 02812 00893 10395

18546/16231/14629 kHz, 26-10/27-10, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45075 : 26th of month : Msg Number 032 : Msg Type 07145 : Group Count (?) 101
40429 29844 35002 10147 14597 33684 22928 61856

Link ID 45075, Date 26th, Serial #13, Groups 92

1be9 b013 9ded 0420 65e3
88ba 7494 cd63 5966 021e fadc 27a6 4e73 3ad6 d07a
f054 22e9 b15b 17a2 b6f0 4431 3812 b493 62e2 8044
0557 d334 6666 1ca2 e973 951c 73b3 12aa b39e 6be1
e846 1166 a19d d818 f96d 3487 9312 c9f3 1e13 fbcf
46ae 7824 60c2 1505 0eab 18e6 daa6 36d1 f76c f55d
67d0 4c87 94a1 3416 fc0f a47d 5de0 1db0 2960 3b50
056a d246 3e5e 8ada a6e8 bce1 074e 5060 db70 c831
7a4d f850 97c3 2233 d8e6 fe02 eeb2 e9d9 3ad8 60e2
23fa 2e19 909e 8fdb b1ae 9706 b341 bc06 7f26 9f84
4248 d35e

Link 45079

9354/7956/6774 kHz, 03-10, 0400/0410/0420 UTC

9948/8115/6826 kHz, 05-10, 2100/2110/2120 UTC

Link ID 45079, Date 30th, Serial #17, Groups 412

1be9 b017 eb29 2c2a c0e1
1abe 57d4 cc57 0aea 5a3b e21a 2517 d317 5cf5 47ce
631b 0439 2b4b c995 0933 df39 3d6f 1b6e 04f1 6c5e
bd9b 3692 ef48 d737 e692 6d51 8d1f 795d f334 d365
9247 4709 9b80 df0a e8af 0a61 9bf5 a36b ef43 c51d
73b2 6b86 e824 be38 a3de a46a 961e f158 881d a074
12a9 71aa a7b8 9659 51bb 962a e0b8 b439 d9e9 39a5
8bef d4f4 0902 fa69 2c85 3dd7 a791 db44 cda4 4c21
e464 9d93 2864 5d99 a09a 2d11 a20f c339 5d09 059d
76cb 72c1 47a9 313f 9294 7c80 a136 3243 1690 3665
1601 a5fd f920 28ea 03ac a260 24e8 fe24 4060 07d8
f564 21bd e4f8 1cdc c1a4 0e13 2c21 aee1 e48e 1410
a34c b34f 6d20 f6a2 833c dcac d815 913f 7ea4 de95
5b72 4cf9 b0b3 7a4b 9641 40ae e206 f161 a1a8 2b38
44e1 fea9 d9b4 c25f 7a28 3b00 fb5a acf9 b390 6450
d214 eef9 93ad 6a83 f40e 78dc aa2f 9484 6605 8d40
665d 6d2a 7bd0 b632 6ce4 3884 6982 a154 9da9 869d
a40e 8159 6603 105f 9a20 4c3c 8d13 dfb8 5f1e cac8
d892 aa0b 83d4 803a 1f9f 08e9 0715 1e05 d56c 9c2a
efee f64a c993 8cb4 43de 2506 3b7c 2466 6a65 59fd
2227 bed5 2681 fb4c f616 da3d 2287 2d24 1cb5 0d27
bb3a 45ac 92e4 43c9 e0b1 4363 5395 0057 89ab e303
880d cec0 8708 b611 2d97 2b13 9a2c 5763 88f5 d2c5
8929 6077 9fb4 b5ae 5f44 eff9 903e 2735 3bcf 447f
bd2e 6cc8 6c38 c6c6 0af3 7c90 c837 868c 6c86 9fd2
b77c 16be 4087 1b09 d996 4f55 ba54 3f60 8879 d930
edd9 e4e3 cb75 94b0 6778 0a53 92da 4b8e db75 9f78
45d4 7255 216f d2d9 df07 8a01 541f 02e6 13c6 0e2d
947f 2e2e a028 0bb5 a9b7 5871 8d64 1717 20d4 2b78
98f5 5901 22e9 a00f 5f29 add0 cad0 2ca2 7297 039f

1aa5 79c8 610e a810 75cc 8719 f626 6afd 3455 93f3
e870 5991 d931 a3d9 d18c 6034 ae64 e5c9 2999 e524
3f08 6216 f516 e7e9 2686 cbc8 1ea4 0d5b dd76 8ae7
7748 267f 117c 4996 1bfa b856 2935 7dd6 d162 1e08
76b0 22aa 9406 d4df 9373 0f4f d7b1 fd15 9a08 5983
8b61 a723 0963 890e 8448 5792 79af 9c3b 8575 6432
1197 23e4 b481 a138 d3f3 1fce a0f0 e3a3 e2a9 bee9
9d41 4570 4c8c 2763 a80e 0063 8910 4c19 2d5f 3210
4c15 5113 7b47 9af6 e821 99f1 8502 ef65 4ea4 01f4
d264 792c 8311 54ec 655e 344b a433 44c3 f54a 5924
6279 c46b 2a54 13b4 a501 653c 5e5b a483 3f40 9164
38d1 db98 3dcd dae5 1868 4180 d18d f646 6fd8 0248
6cc5 be00

9354/7956/6774 kHz, 16-10/19-10, 0400/0410/0420 UTC

Link ID 45079, Date 14th, Serial #18, Groups 211

1be9 b017 d254 8c2d e6e3
a739 4795 cc57 0983 d58a de33 2517 d976 9cd9 60ce
6318 387f 5127 4bc9 182a 5031 3a20 260e acc4 6b74
1eb4 c727 b6f0 7bca 7f68 7037 4b99 e59d ca8a 1ba8
8228 9b31 da90 b2c1 4665 a782 0604 ced2 4f45 a577
e72d 072c 2719 8cc2 1e83 8979 cf20 adb9 4610 1ee6
bc70 92c1 b954 dcea b233 7110 6333 8c02 7b77 c5ae
58d2 ee9e 64c4 52d2 7146 7ac8 80f0 daf2 6ef6 68d0
97aa d567 aa82 6d79 6f66 2022 c7cc 1e25 9d91 c360
0ab4 6d4a 1c03 3d59 8d62 af34 4499 29cb 3f49 8c0f
3e38 b79d 5631 862b e3aa 494a 62c1 619a 778a 3600
f601 5910 e7dc add9 83a6 4dfc 4483 384b 09cb 785c
6cb6 606d abe9 f7e4 0364 24e9 19ce 3929 9944 48cc
2e76 ac0f 20b8 09de ebf1 095d 3577 0122 16e5 d7d0
ee48 8bd3 07b5 5474 edf7 bb54 3f24 e014 7bf7 c2b9
f4ef df88 33ee 943a f993 e555 3591 2f3c 5109 2377
721b 490f ad44 8f58 8f5a 9731 76b9 9675 9c19 be99
3c8e a586 d3c2 d69c 8d88 99bb 74da e731 9333 4c21
1c74 def7 2a53 a32d 7bbc 3695 1730 4a7a 9ab7 0d7a
0901 9b0a 622b 1e37 9f85 62f7 f36c 2497 2a3b 5455
25c3 d116 579f d2f4 dc48 4235 7d2d 18d3 5efc f8b5
c82d c531 1800 5f7d 4445 e901 4991 ce0a c49e a8cc
8e40

Link 45114 / 45115

14986/12219/10574 kHz, 08-10/09-10, 0800/0810/0820 UTC

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

Block No 1: Link ID 45115: 7th of month: Msg Number 102: Msg Type 07145 : Group Count (?) 196
05396 03044 06440 38350 00643 33347 39284 12769

Link ID 45115, Date 7th, Serial #41, Groups 180

1be9 b03b 1514 4666 c4f0
1928 0be4 c015 b84c e9cb bf4e 9307 363f 7338 4500
1776 fec3 762a 3f91 56d2 96e3 345b c4c6 cf84 93f4
e70d e477 85e8 d721 e233 7097 8e65 d995 f2b7 1f16
8651 b677 f8ee c9bc 432c 2001 3202 9f9e 1ba1 7764
7553 516a fe74 20f0 c020 18ea 0902 a298 859d 4e93
aaf4 eb04 c9df 95da 34cd 293e 3dbc 6098 f3a4 84cc
f1be ea77 403a 33f8 9222 76c4 55b4 0566 0be2 0c9c
e7a0 a711 1025 2c40 3888 51e1 a79d d093 6cc9 d537
4cc7 2dc5 cab1 181c d1e6 3af6 cde4 2a52 f708 e063
962a f624 ca58 2bc3 6d29 b56e 93c4 b3e6 6914 cb77
9a65 81d4 0dbf 5027 e5ac 0722 dd34 9b70 9bc4 8030

ab0e ed4e b114 a292 efa5 6cf0 bfb1 95b8 f5f6 9352
2b67 5fcb eecd abff 0c6e f15c a0be 3512 ee38 f26b
3f8f d913 52d0 6ef0 cac7 a0ce 4cdd 2384 2430 f951
fe03 22f9 e542 2cd6 f2ce 6b1e b565 9994 5d06 1e94
8400 9281 0003 20ae f427 0c47 5871 acce 5bc0 8a28
f748 2103 4573 af20 ad8b e017 d32e 6c4e 1890 41d7
7c77 c16f b9d4 ec43 c20c e05c 2ca5 ad66 0874 2000

14986/12219/10574 kHz, 22-10/23-10, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45114 : 21st of month : Msg Number 105 : Msg Type 07145 : Group Count (?) 138
10800 50418 62034 28255 57479 01417 01967 04927

Link ID 45114, Date 21st, Serial #42, Groups 126

1be9 b03a 2a30 d269 8aea
f252 c4f2 ab72 ccbd 7eaf 5088 5e4c 8d4a adb5 121e
4e19 7767 56b2 62ba 5648 3788 b66f e215 dd64 a6cc
f74c 7ce2 ca84 1b26 4323 6f26 8917 c477 e01c c1a6
76c1 f346 94d5 f04b ded7 9d48 78a3 8d25 d748 8dde
a0a8 942f 644b 98d1 627b 1469 e09c 9a02 d7ce 3c48
49b2 c2ca 922b bc76 a39c 451c f5fc f324 802a 78f8
b9ec a5d1 e5da 57b0 6e05 b5ef 2ad2 c485 42be 715b
777a 8e79 ec44 9753 aa38 9ad9 070f 55ce 3a39 2f90
bf9a 9165 b6a3 6407 5ee5 18a7 9251 0a3f a0ae 98be
3f65 643a d808 a126 3388 46c0 65df 326c 5684 d751
4170 0c9b 496b c2b1 f67f f7e5 9152 a005 eed8 1b48
dbec 2590 4b62 c2f6 612d 52158 aa7d 317c fca2 6320
8b23 c4c7 a7b0 f382 1673 a55a

Link 49202

22863/20674/85914 kHz, 05-10, 1000/1010/1020 UTC

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

Block No 1: Link ID 49202: 5th of month: Msg Number 002 Msg Type 07145 : Group Count (?) 4
50628 00000 00000 01197 34046 34012 00893 23125

22863/20674/85914 kHz, 12-10, 1000/1010/1020 UTC

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

Block No 1 : Link ID 49202 : 12th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
22796 00000 00000 02225 28271 35239 00893 38098

22863/20674/85914 kHz, 19-10, 1000/1010/1020 UTC

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

Block No 1 : Link ID 49202 : 19th of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4
40604 00000 00000 03522 28271 03834 00893 56625

22863/20674/85914 kHz, 26-10, 1000/1010/1020 UTC

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

Block No 1 : Link ID 49202 : 26th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
50629 00000 00000 04059 34046 35939 00893 16406

Link 49237

15841/13376/11108 kHz, 06-10, 1330/1340/1350 UTC

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

Block No 1: Link ID 49237: 6th of month: Msg Number 212: Msg Type 07145 : Group Count (?) 4
52536 00000 00000 03699 39258 36219 00893 46162

15841/13376/11108 kHz, 13-10, 1330/1340/1350 UTC

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

Block No 1 : Link ID 49237 : 13th of month : Msg Number 150 : Msg Type 07145 : Group Count (?) 4
61080 00000 00000 01265 49619 03919 00893 46657

15841/13376/11108 kHz, 20-10/21-10, 1330/1340/1350 UTC

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

Block No 1 : Link ID 49237 : 20th of month : Msg Number 060 : Msg Type 07145 : Group Count (?) 144
55880 55221 01434 18140 39258 00833 26835 05904

Link ID 49237, Date 20th, Serial #24, Groups 132

1be9 c055 da48 c83c 90ec
059a d7b5 2d33 07b1 c778 f8af c883 b9bc a41a 8495
ef7a f6b6 ca36 1918 18f7 4338 9b81 1583 85d0 c491
c341 5384 e3d3 11e0 9dfe 2b29 f79e 3a24 a4b8 5c52
664d 479f 7e98 8b01 87f8 cc0c 9905 c551 f6ea e816
0867 db79 b3a7 c289 b7dc 527d 1be4 112d 4baf f12a
c238 67d5 83f6 bf90 2e81 c69f 9da9 dcb1 259a 4b15
b5ef e087 9ae4 67cd 7826 7ac2 37c1 882a a4aa b33a
4695 72f2 edb1 ed57 d1db 7aca 5bf8 3853 3bf5 4bf6
00c9 f5bc 5426 b82a 2853 1911 e12b ae53 d439 aa1f
7edb f9a7 0c64 9982 e7f4 3301 da23 a62c edb0 8255
5c29 bbf2 a770 21df c086 4802 1580 8824 9f25 1c1e
33f5 7b2a 3e4a 65a9 88c3 cb3a 34b0 1e6a be05 4dfa
3bf4 60f9 aa76 035f 2fde e299 919c 84c4 7c28 5139
9ce0 8e00

15841/13376/11108 kHz, 27-10, 1330/1340/1350 UTC

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

Block No 1 : Link ID 49237 : 27th of month : Msg Number 072 : Msg Type 07145 : Group Count (?) 4
46369 00000 00000 02473 54891 36216 00893 38992

Link 53277

19363/17476/15873 kHz, 05-10, 1230/1240/1250 UTC

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

Block No 1: Link ID 53277: 5th of month: Msg Number 002: Msg Type 07145 : Group Count (?) 4
50452 00000 00000 02750 34541 34943 00893 32210

19363/17476/15873 kHz, 19-10, 1230/1240/1250 UTC

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

Block No 1 : Link ID 53277 : 19th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
03948 00000 00000 01809 22771 34583 00893 38711

X06 - Mazielka

Code	Freq	Date	UTC	Day	Sequence
X06	14631	5-10	0826	Wed	Mazielka. Sequence: 362154
X06	14631	19-10	0822	Wed	Mazielka. Sequence: 362154
X06b	10868	1-10	0526	Sat	Mazielka. Sequence 1--6--
X06b	16338	4-10	1415	Tue	Mazielka. Sequence: 1--6-- before XPA2
X06b	16338	4-10	1416	Tue	Mazielka. Sequence: 1--6-- before XPA2
X06b	16338	9-10	1425	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	16338	9-10	1427	Sun	Mazielka. Sequence: 1--6-- before XPA2
X06b	13376	12-10	1643	Wed	Mazielka. Sequence: 1--6-- before E07
X06b	10868	15-10	0524	Sat	Mazielka. Sequence: 1--6-- before XPA
X06b	16147	23-10	1414	Sun	Mazielka. Sequence: 1--6--
X06b	16147	23-10	1416	Sun	Mazielka. Sequence: 1--6--
X06b	16147	28-10	1425	Fri	Mazielka. Sequence: 1--6-- before XPA2
X06b	16147	28-10	1434	Fri	Mazielka. Sequence: 1--6-- before XPA2



XPA

Mode: MFSK-20/10Bd

10868/12168/13368 kHz, 01-10, 0600/0620/0640 UTC

813 813 813 1 813 813 813 1 813 813 813 1
01216 00179 37735 27549 47621 55103 52184 64832 06163 21358
51973 88983 69698 92320 15224 53953 57834 06114 93274 31764
11527 55301 74860 75763 00050 52547 55519 35913 90736 30525
22489 25571 50374 77187 22059 55846 20912 31410 13727 07231
25626 22660 90941 52713 51735 96068 76848 51033 60577 03976
34609 73477 25421 41424 66638 10410 03079 84013 67360 41927
75044 87312 55304 80513 32383 50072 56558 68235 96206 40762
66262 27382 04542 84879 79164 41295 32587 85555 79433 56069
24105 27447 08116 58762 25941 27942 06108 79914 38163 99800
60600 25303 85349 28226 95734 74810 39675 78999 41524 66351
69948 94203 38389 20107 49628 19643 11280 29972 55379 91243
06882 23821 29811 21324 32355 75389 97448 87592 63774 66994
98302 02291 34388 52653 44746 62273 89986 01265 11938 56502
23652 79023 65100 93956 33143 67163 76058 75099 76289 18513
00122 21365 96740 50137 17441 55579 98122 25427 97668 83562
94937 11837 51552 12149 21122 37812 55237 13703 68325 37056
86847 67568 18664 32468 69441 05045 40233 62820 87665 09959
50007 89967 27598 27446 95765 51847 88298 14695 31793 64687
68402 24372

10868/12168/13368 kHz, 05-10, 0600/0620/0640 UTC

813 813 813 000
03322 00001 00000 10140

10868/12168/13368 kHz, 08-10, 0600/0620/0640 UTC

813 813 813 000 01924 00001 00000 10140

10868/12168/13368 kHz, 12-10, 0600/0620/0640 UTC

813 813 813 1 813 813 813 1 813 813 813 1
02354 00231 78819 58808 63641 81080 43966 06575 16905 86660
49695 39115 53323 39923 86924 33368 67578 25483 61112 35447
19182 83889 23857 38601 40772 21293 62609 68104 76739 16344
88874 51911 11898 28068 36844 99602 31418 12377 01308 92831
49448 84067 75255 67147 23111 70810 16377 93469 46540 81793
16624 54044 27224 75247 40465 77155 46707 91612 74958 63859
83938 98412 11179 24022 69628 67577 17739 37869 75360 20405
26095 34209 97496 95477 31279 93714 67833 41175 04246 32607
00097 99732 50516 29804 07474 16227 37865 29909 06330 99879
28395 95708 72823 87068 40481 33840 37989 05106 78068 74297
11852 89851 97258 97272 81033 81385 27640 94516 94580 61072
45655 20711 83075 49255 42799 86351 93220 64643 95208 83709
56707 34560 52943 48038 54146 46907 68433 32714 96722 06624
06586 48907 00290 45366 11916 50920 69859 62186 21369 83402
29348 98877 92412 24217 93582 79612 89220 94915 21909 09440
98253 85892 35405 04470 57465 57294 02653 29253 38360 37930
69625 30631 67478 96117 56256 62671 20103 75241 33063 64834
01723 79458 59536 95628 46169 91621 80687 40992 38397 57622
74450 81968 87159 41007 66904 67185 23296 71449 97966 30043
54194 67885 31701 03646 04457 70844 13843 00702 49443 38356
13977 96759 56411 13613 66655 87004 24642 03134 53284 18460
79319 35140 14058 63664 14580 32315 87774 67772 14994 41462

48165 32660 07079 24417 95684 54540 74623 31210 13785 95393
26979 69033 98659 05464

10868/12168/13368 kHz, 15-10, 0600/0620/0640 UTC

813 813 813 000
09551 00001 00000 10140

10868/12168/13368 kHz, 19-10, 0600/0620/0640 UTC

813 813 813 000
04624 00001 00000 10140

10868/12168/13368 kHz, 22-10, 0600/0620/0640 UTC

813 813 813 000
07652 00001 00000 10140

10868/12168/13368 kHz, 26-10, 0600/0620/0640 UTC

813 813 813 000
04670 00001 00000 10140

10868/12168/13368 kHz, 29-10, 0600/0620/0640 UTC

813 813 813 1 813 813 813 1 813 813 813 1
05723 00165 34760 54207 64943 92503 14567 81094 27772 68578
38196 15005 79276 38986 54954 51637 13608 47278 90814 94689
45016 00604 34367 78512 85988 20983 81360 04780 58717 83154
19153 51959 89593 45235 88215 15072 43487 88366 68591 00749
18094 93343 97007 30805 54874 11632 18267 87945 92792 89733
23259 35546 87142 83541 29042 17682 75879 23714 95501 78708
44936 16331 04671 37271 76226 30483 22084 19648 51541 37509
45081 56625 83715 63147 85443 60521 64152 10499 59190 96014
80871 08985 78147 94259 40618 70139 09894 96678 90907 30711
71742 89517 56332 32733 08316 62130 84488 59989 07880 97343
24095 34838 00985 59333 26038 34142 40368 51349 91320 24910
87756 78247 14388 17939 58022 92697 32662 91428 09086 13838
17671 84564 15782 16929 90832 10224 60290 55942 26228 82700
13863 90253 95686 67918 12909 40265 89793 41892 80792 21073
01605 07956 87226 67353 90530 75058 16447 01095 60663 20466
29549 49072 36386 94859 03597 47960 83235 86080 65162 31912
34261 19376 49329 97975 61690 84210 72099 53134



XPA2

Mode: MFSK-16/20Bd

14828 kHz, 01-10, 1440 UTC

03130 00001 00000 10140

16338/14538/13538 kHz, 02-10, 1500/1520/1540 UTC

04477 00001 00000 10140

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

04640 00001 00000 10140

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

01292 00001 00000 10140

16284/18184/19584 kHz, 07-10, 0700/0720/0740 UTC

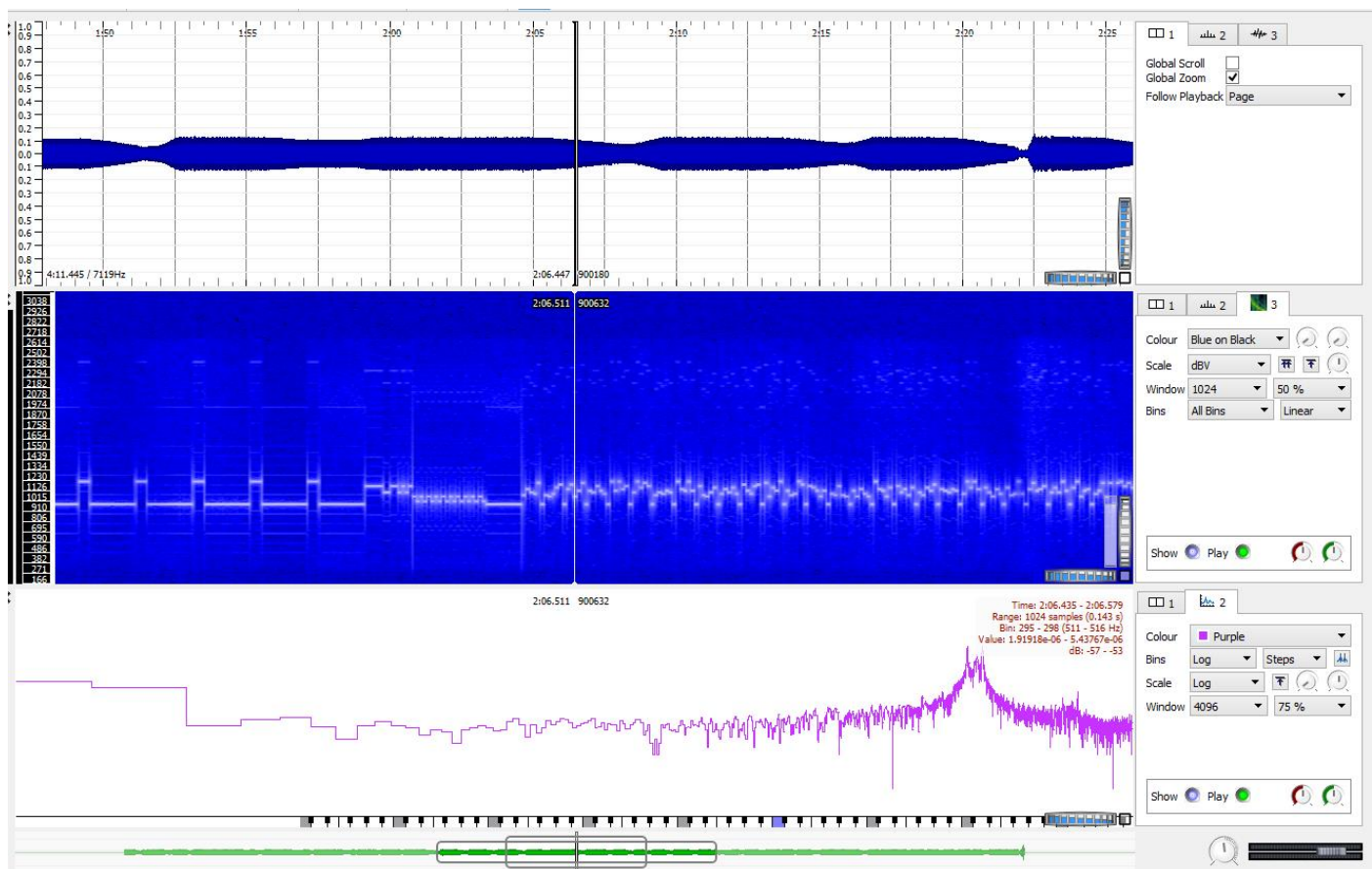
08499 00001 00000 10140

17462/16114/14828 kHz, 07-10/08-10, 1400/1420/1440 UTC

05159 00063 67987 35115 11529 54794 74777 20279 45023 68465
64092 33964 11115 33843 65999 55969 23525 09915 97050 55102
13411 61499 72982 59637 43975 58999 48733 77702 10921 85870
61278 40872 79024 89603 80525 30077 05067 50412 52788 89798
78723 39266 68677 42472 34222 53197 18923 18885 62391 46234
11186 23751 76975 09798 56097 86573 42554 97259 61153 64793
40649 79009 06118 48445 42443 35164

16147/14947/14447 kHz, 07-10, 1500/1520/1540 UTC

04218 00157 47738 32631 93946 29586 02132 94393 60025 14251
73167 88539 30197 65333 10600 33411 94335 62405 20537 43243
19594 52241 50191 48346 25293 59934 13888 89685 48234 31810
95826 67680 69952 14441 69633 75612 58266 49228 08937 56662
18359 11974 55862 57857 30732 93849 53646 06600 97600 48379
76821 93912 65412 25873 96822 85100 52459 92862 92132 52557
45153 58692 26566 47830 20139 17835 59103 21531 99565 91406
97982 69968 83615 80624 35811 36889 74142 87322 59484 82552
16603 42040 11193 25336 97878 76076 63046 34983 50213 09372
29885 81622 75077 35161 94992 29137 50847 53613 87440 80392
87536 85873 29763 35636 51750 14030 74743 47457 53739 13293
84943 74233 71237 69037 92981 13713 84507 16043 80863 94672
22939 27187 40944 34144 66131 60629 62366 11392 00240 75151
79162 13223 00033 72399 34572 64696 21342 97119 69567 51528
52470 84837 36592 98423 43240 96156 71228 48597 36488 24587
50498 24959 31618 38944 35783 21570 06592 61866 46828 14643



Sonic Visualiser view of XPA2's signal

16338/14538/13538 kHz, 09-10/11-10, 1500/1520/1540 UTC

00430 00087 46311 24839 32490 17666 65285 39896 74075 26797
93458 90997 44916 78394 94728 77654 82839 26766 11472 33899
60825 24176 21316 61102 81883 59608 79205 75108 89393 03392
29139 56256 46236 02743 71077 84430 29716 35751 20623 28833
82331 85556 28493 50104 60203 00019 00951 90123 91170 80498
45341 91708 47231 10425 80715 73428 85278 04069 14126 02556
18263 28679 90599 52084 52527 20623 10215 07465 72325 13342
57077 53077 33677 82817 44495 66703 89111 08613 03127 85967
86984 22106 74942 11908 04871 36268 55226 28046 24855 41636

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

04218 00157 47738 32631 93946 29586 02132 94393 60025 14251
73167 88539 30197 65333 10600 33411 94335 62405 20537 43243
19594 52241 50191 48346 25293 59934 13888 89685 48234 31810
95826 67680 69952 14441 69633 75612 58266 49228 08937 56662
18359 11974 55862 57857 30732 93849 53646 66010 97600 48379
76821 93912 65412 25873 96822 85100 52459 92862 92132 52557
45153 58692 26566 47830 20139 17835 59103 21531 99565 91406
97982 69968 83615 80624 35811 36889 74142 77322 59484 82552
16603 42040 11193 25336 87778 66066 63046 34883 50113 09372
29885 81622 75077 35161 94992 29137 50847 53613 87444 80392
87536 85873 29763 35636 51750 14030 74743 47457 53739 13293
84943 74233 71237 69037 92981 13713 84507 16043 80863 94672
22939 27187 40944 34144 66131 60629 62366 11392 00240 75151
79162 13223 00033 72399 34572 64696 21342 97119 69567 51528
52470 84837 36592 98423 43240 96156 71228 48597 36488 24587
50498 24959 31618 38944 35783 21570 06592 61866 46828 14643

16284/18184/19584 kHz, 11-10, 0700/0720/0740 UTC

08313 00001 00000 10140

17462/16114/14828 kHz, 14-10, 1400/1420/1440 UTC

07315 00001 00000 11140

16147/14947/14447 kHz, 14-10, 1500/1520/1540 UTC

01760 00000 00000 10140

14828 kHz, 15-10, 1440 UTC

08279 00001 00000 10140

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

01585 00001 00000 10140

16147/14947/14447 kHz, 16-10, 1500/1520/1540 UTC

04714 00001 00000 10140

16284/18184/19584 kHz, 18-10/21-10, 0700/0720/0740 UTC

06043 00143 60705 19622 67888 05237 31329 64997 82894 31726
04598 78952 71703 64297 92015 89264 39379 13355 64619 11447
74677 44335 08187 65179 32573 44622 10878 68446 58293 93160
25292 67516 16161 91220 69955 96272 13711 11494 20864 42220
89391 97987 18007 55238 22186 43318 37742 42207 36547 07233
99536 64646 13486 73945 40304 46332 33833 87824 48777 80196
57326 87192 32665 33847 92321 50879 11833 62766 55466 04192
46085 22215 27751 93382 83384 22776 18272 14707 32962 30926
26370 38620 77223 10644 84042 15392 44770 22210 43988 53444
72584 06487 22049 19162 48833 51112 33984 88804 10573 20377
08552 86558 65060 64485 95639 78151 42140 60088 92762 67882

31983 55921 18332 37394 01621 77007 23848 79812 62015 30161
58212 11329 38686 92323 40153 99436 65850 54051 37906 69034
04053 07158 30348 66500 18783 38180 60327 44442 12392 82201
62572 53772 58049 92614 72506 00171

17462/16114/14828 kHz, 21-10, 1400/1420/1440 UTC
09811 00001 00000 10140

16147/14947/14447 kHz, 21-10, 1500/1520/1540 UTC
06601 00001 00000 10140

17462/16114/14828 kHz, 22-10, 1400/1420/1440 UTC
04913 00001 00000 10140

16338/14538/13538 kHz, 23-10, 1500/1520/1540 UTC
04320 00001 00000 10140

16147/14947/14447 kHz, 23-10, 1500/1520/1540 UTC
02863 00001 00000 10140

16284/18184/19584 kHz, 25-10, 0700/0720/0740 UTC
03606 00001 00000 10140

16338/14538/13538 kHz, 25-10, 1500/1520/1540 UTC
02504 00001 00000 10140

16284/18184/19584 kHz, 28-10, 0700/0720/0740 UTC
05374 00001 00000 10140

17462/16114/14828 kHz, 28-10/29-10, 1400/1420/1440 UTC
05963 00101 86235 85062 84448 46940 99727 94181 35473 10194
39156 93943 26099 47493 27895 95763 47371 22549 82154 25151
16351 49327 04464 60706 20591 34939 11721 27783 75170 32400
14331 38376 80526 09002 00652 54664 88713 63719 14939 81457
83538 19065 86295 68487 82805 17752 29771 22066 21110 79970
01037 21621 77117 52264 38242 13645 83605 68671 33257 58857
96830 32101 49637 42792 99502 50294 31876 15781 52377 59427
74263 67735 42066 77670 28110 45755 80135 75677 60448 29917
73855 37395 17263 53052 12998 08874 47993 19298 27102 64297
86211 77488 72235 35380 97978 29005 46814 46155 50995 19564
15168 72375 29428 53673

16147/14947/14447 kHz, 28-10, 1500/1520/1540 UTC
02910 00209 14922 55259 11023 74777 47538 26797 34844 02916
36766 70702 02251 80308 23796 11990 37407 05235 29524 20627
06334 51534 16774 01796 48539 44350 06737 39005 16886 28269
92706 89222 72459 29030 32808 44750 49766 14081 53500 36531
40051 08445 17837 94301 31723 05212 08272 57726 87838 39095
18723 91203 40986 28524 09910 44925 32552 66138 49844 91023
73960 32810 15511 63393 95391 15691 59597 61321 65907 93294
57343 48007 76929 07781 37420 16381 39809 40502 05494 35474
21071 76072 71653 69401 37207 07482 95499 56901 08535 12451
19561 05893 97439 10065 53952 25397 42758 96510 80820 26250
88593 70027 92785 35653 03878 82749 91209 54271 71143 20911
98044 77401 86778 78801 84066 97438 46941 05311 60544 10557
07621 22972 93198 27159 91622 43738 77237 17926 28597 90597
48024 38334 97138 45046 34586 49997 26965 68517 72712 46895
10282 69974 81365 45508 04479 05855 57256 60143 66394 47934
32241 21634 51146 32356 89240 52731 04094 27582 92391 05316
63951 45361 85306 75127 39965 04134 19705 21554 74300 19479

09014 29715 87921 44453 66063 03872 23395 08315 85734 31756
05568 63766 00413 39929 79466 70497 80149 49703 91844 46901
77507 87885 81254 91694 16171 19571 01585 63636 83804 43477
83790 17257 54609 68196 89778 05970 94656 89402 95372 35876
10734 62043



F11

Mode: FSK 100/625

9339 kHz, 03-10/05-10, 0845/0850 UTC

0353 0353 0353 0353 0353
88888 88888 07734 24942 49108 82708 38932 02371 70689 96448
57980 33150 81054 69085 98381 52931 56153 27920 94295 87474
71976 00154 73177 94771 26207 99224 30628 87032 02302 56249
28338 00752 17876 05058 11617 63784 37401 88888 88888
00039 00039

9079 kHz, 04-10/05-10, 1150/1155 UTC

0325 0325 0325 0325 0325
88888 88888 66694 03972 32458 74852 18537 81031 33129 58692
17302 31744 22320 08151 44738 81353 23390 01718 33257 70794
64934 50086 30391 69620 66217 90476 67048 98995 45263 53921
00588 94718 78323 28435 38617 64423 18597 90989 88888 88888
00040 00040

7371 kHz, 06-10, 0515/0520 UTC

0446 0446 0446 0446 0446
88888 88888 19277 32437 74917 59498 47117 48152 15545 91926
28460 37987 92614 48417 35682 12671 38894 87823 94244 87372
70171 20359 01964 04788 52501 02744 93248 84676 65228 92875
76333 49504 67673 67605 63349 87187 10975 11085 82436 88888
88888
00041 00041

10728 kHz, 06-10, 0630/0635 UTC

0574 0574 0574 0574 0574
88888 88888 81780 95255 10505 97509 89554 60267 83097 35588
43436 54591 50742 22857 02047 58003 71786 40604 64200 46095
53446 43284 89087 58443 56573 03235 08759 36098 48214 92796
83155 81899 98292 88888 88888
00035 00035

14972 kHz, 11-10/12-10, 1245/1250 UTC

0132 0132 0132 0132 0132
88888 88888 20117 28555 33377 86383 60836 30837 73973 19830
17083 61310 41084 26275 21035 17603 99756 34305 43702 46360
14745 51938 60226 36578 38642 06847 88076 86491 37456 07780
22291 32505 75720 88888 88888
00035 00035

16005 kHz, 12-10/14-10, 0530/0535 UTC

0453 0453 0453 0453 0453
88888 88888 74422 11226 52711 39501 30056 26654 34409 65520
79158 07615 44717 10008 88918 81164 53216 14445 71858 44100
15222 62952 30681 11774 86312 68301 84663 25566 61439 55393
37705 83621 05871 93514 50163 31268 15447 07051 53209 55782

88888 88888
00042 00042

6906 kHz, 17-10/20-10, 0800/0805 UTC

0434 0434 0434 0434 0434
88888 88888 93251 54412 79599 94751 38861 30874 60261 62863
86804 20594 75180 86760 90463 78378 29227 06528 81565 77985
69803 87119 92617 09228 73012 28867 66705 10194 28069 71627
84698 35693 65698 87705 98106 45619 60011 03878 88888 88888
00040 00040

7371 kHz, 25-10/28-10, 0900/0905 UTC

0554 0554 0554 0554 0554
88888 88888 16434 21754 61103 89149 51825 88324 10918 81216
50662 39172 81264 57306 79101 19467 55083 63307 55389 45896
18573 22132 90447 71279 57793 00012 66406 18923 43737 21380
54646 79468 41053 82258 75304 87243 63791 99843 88888 88888
00040 00040

7863 kHz, 26-10/27-10, 0300/0305 UTC

0231 0231 0231 0231 0231
88888 88888 62153 98832 10815 09933 76199 00164 25079 47565
47496 76611 35587 75959 33716 14359 93454 14218 74089 45680
08447 76272 55362 59140 66436 80497 64154 12787 22076 17509
77071 35511 42206 87612 91862 14595 13954 95665 20127 70524
88888 88888
00042 00042



Q26

Mode: 4+4 QPSK 75/3000 LSB

All logged by JPL. Thanks OM.

Freq	Date	UTC	Day		Freq	Date	UTC	Day	
9054	7-10	2342	Fri	Messages		23-10	1142	Sun	Messages //4243 kHz
8073	8-10	0006	Sat	Messages	8073	25-10	1130	Tue	Messages
8073	9-10	1128	Sun	Messages	4243	25-10	1142	Tue	Messages //9054 kHz
4243	9-10	1143	Sun	Messages //9054 kHz	9054	25-10	1142	Tue	Messages //4243 kHz
9054	9-10	1143	Sun	Messages //4243 kHz	9054	26-10	2343	Wed	Messages
8073	17-10	1131	Mon	Messages	8073	27-10	0002	Thu	Messages
8073	18-10	1131	Tue	Messages	8073	27-10	1131	Thu	Messages
8073	19-10	0010	Wed	Messages	4243	27-10	1144	Thu	Messages //9054 kHz
9054	20-10	2323	Thu	Messages i.p.	9054	27-10	1144	Thu	Messages //4243 kHz
8073	21-10	0001	Fri	Messages i.p.	4243	28-10	1142	Fri	Messages //9054 kHz
8073	23-10	1131	Sun	Messages	9054	28-10	1142	Fri	Messages //4243 kHz
4243	23-10	1142	Sun	Messages //9054 kHz					



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

Japanese Navy a.k.a. Slot Machine heard on 28-10 at 1148 UTC on the following frequencies:
 4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8508, 8703.5 kHz. Mode: QPSK 1500Bd



North Korean diplomatic stations

8260 kHz, 7-10, 0945 UTC, DPRK-ARQ 600/600 LSB : North Korean diplo

UTILITY ROUND-UP



Beacons

We haven't mentioned the illegal HF beacons for a while. Chris Smolinski recently edited the list for **HF Underground**. Thanks for that. Reports are most welcome.

Recently Reported Beacons:

- 2008.4 dasher sends about 17 dashes/min, each 1 sec long, cycles on and off
- 2018.3 dasher sends about 48 dashes / min, each 0.22 sec long, cycles on and off
- 2097 A Fairly high power, an easy target even out east.
- 4070.4 0.5 second dashes with a 2.1 second period.
- 4079.6 "TMP" beacon
- 4086.7 dasher sends about 8.7 dashes / min, each about 1.7 sec long
- 4094.5 "X" beacon, about 6.8 sec between letters - reported still active January 2016
- 4095.94 "Viking" 24/7, 3.5 second dash, new beacon as of Dec 2015
- 4096 "Coxie" Slow dasher, about 4.5 seconds, Joshua Tree NP, daytime only with dead battery
- 4096.24 "Hexie" 24/7 1 second-long dashes, 24/7, Joshua Tree NP, 400 mW on since Dec. 1997!
- 4096.35 Haystack 24/7, 3 second dash, new beacon as of Oct 2015
- 4096.6 "Kelsie" Mojave NP
- 4096.9 "Marin Dit", 24/7, harmonic of 8193.71 radiates better, only 10 mW
- 4097.25 "Inyo Whooper" daytime-only, about 90-chirping dashes/min. 3/4 watts. First on April 2007
- 4106.86 About a 2 sec dash followed by a 5 sec space
- 6398.50 Common and Precious. 25W CW. Half Wave Dipole Antenna. Located in Germany. 24/7 operation. Sends "Common and Precious JO62SK 52W dipole JO62SK"
- 6626.3 "Rainy" - Mojave NP, CA - daytime dither/chirper in Mojave NP, 1.5 watts, first on-air March 2003
- 6626.2 "Rocky" a "buzzer-beacon" located in Inyo, Co, CA with about 300 mW output - daytime only, first on-air Spring 2007
- 6668 "L" beacon, about 9.3 secs apart, or 6.5 times / min, hearing extra leading dit
- 6700.5 "Hexy2k" Joshua Tree NP, daytime only, 100 mW to inv. vee, 150 mW first on-air 29 Dec. 1999
- 7039.4 "T" beacon OK0EPB sends a marker each second, a longer one at the minute, and callsign.
- 7998.3 "Shorty" sends 18 dashes starting every minute.
- 7998.9 Dither, dits about 0.15 secs long, about every 0.6 secs, or about 100 dits / min
- 8000.35 Very long period dasher, 40 or 50 seconds. Sometimes sends a broken dash that sounds more like an A or AE.
- 8001.2 New beacon as of Dec 20, 2015, 5 second period, frequency 8001.2 - 8001.6

8193.7 "MarinDit" - 24/7 in Marin County, CA - about 80 dits/min. 10-15 mW only - on-air since spring 2000 (an "attic beacon"), this is the second harmonic
 8498.5 Fast Dasher dits are about 0.14 sec long, and about 0.6 sec apart, or about 100 dits / min
 8500.3 Slow Dasher
 10237.8 Common and Precious. 25W CW. Half Wave Dipole Antenna. Located in Germany. 24/7 operation. Sends "Common and Precious JO62SK 52W dipole JO62SK"
 13562.9 "RR-dash" beacon is located in the northern Mojave Desert of Calif. with approx. 10 mW to an inverted-L antenna.

Beacons No Longer In Operation:

2025.1 "Inyo Dark Ditter" 67 dits/minute. Night-only, about 2 watts output to inv. vee on granite rock-pile. (CA, USA)
 4089 Death Valley Ditter "Scotty Beacon" suddenly QRT NOV. 2011
 4102.3 Windy, "W" beacon - seems to be QRT
 5205.3 "Sally" diter beacon in the Saline Valley, CA - east-facing solar-panel so mainly morning only (a daytimer). 1/2 watt. First on-air Feb. 2006. Now Off Air.



Unid stations

3 unid stations, possibly belonging to the same net, copied by JPL. If you know who they are, please let us know.

3613 kHz, 30-09, i.p.

VVV W4M DE 68V QSA ? 37 K

3810 kHz, 02-10, 1539 UTC

VVV 3GO 3GO 3GO DE 8CM 8CM K

46 49 SK SK

3865 kHz, 02-10, 1542 UTC, i.p.

N3A N3A DE ILE ILE QSA ? 9714 9714 VVV



Intelligence news

Famous spies who became political leaders.

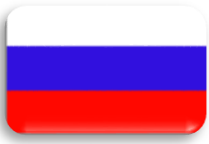
Did you know that Hitler, Mussolini and Stalin each had something to do with intelligence services?

Hitler was a spy for the Weimar Republic; Mussolini was on the payroll of MI5 late in World War I, and Stalin was an Okhrana (Tsarist secret police) agent.

Another politic leader, mr Putin, is a well known KGB foreign intelligence officer for 16 years before he became a politician.

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by JPL, WP3, F5JBR



RMv/RNv/RNAv/RAv Russian military stations

Frequency: various Mode: USB / voice

RMv – Russian Military

4872 kHz, 02-10, 0448 UTC SNOLT-91 clg OLMAT-39 VERANDA-39 BALK-76 ARUKA-54. Radio checks
4455 kHz, 02-10, 0501 UTC ESSIP-19 clg SIBIR-33
3760 kHz, 02-10, 1713 UTC KARMA-90 clg SIGMA-02 MILBUR-92 NASTA-03 SIGIT-58. Radio checks
3799 kHz, 04-10, 1732 UTC HAGAN-56 clg ASTRAN-79
7056 kHz, 04-10, 0457 UTC VADAYOP-43 clg GESIR-31 OLI-16 OUASID-88 PORTA-86 PONEK-15 ORAGAM-08 SOROM-25
2455 kHz, 04-10, 1635 UTC SKODA-22 clg SPADA-22 KOPET-77 AKAT-66
2017 kHz, 04-10, 1643 UTC PASSAT-17 clg VORAZ-32 BEDA-29
2034 kHz, 05-10, 1744 UTC COMER-56 clg PISSAT-107 NOLTA-76 VITOK-38 COLD-28
4872 kHz, 06-10, 0436 UTC PREVOT-20 clg SASNA-03
4410 kHz, 06-10, 0532 UTC POPLAN-29 clg CHESTA-34
5333.5 kHz, 12-10, 1345 UTC VESNA-9 clg NABIL-83 followed by traffic in AT3004D/USB
4343 kHz, 12-10, 1838 UTC NIVOK-67 clg PRITO-43 GAZIKTA-43 ZATOK-26. Radio checks
4792.5 kHz, 13-10, 0500 UTC SVARAK-14 clg
4128 kHz, 13-10, 0511 UTC PRIDVAT-94 clg MORAD-28. Radio checks
7950 kHz, 13-10, 1334 UTC BUKLIN-94 clg ANOD-35 MAIDAN-97. Radio checks
4162 kHz, 25-10, 1739 UTC MAGMAT-16 clg KATOH-84 (comms checks and traffic in QYT4 mode)
4940 kHz, 15-10, 0728 UTC BAR-85 clg KASSA-80 FARLON-25 MOLKA-42 (comms checks)
4314.5 kHz, 25-10, 0544 UTC MIRNA-04 clg NALEM-46 OLAG-45 (comms checks)
4655 kHz, 25-10, 0503 UTC REPITA-49 clg YULA-59 MODA-77 FARA-72 ISOTOP-09 (comms checks)
4038.5 kHz, 25-10, 0438 UTC EMAN-201 clg ROMAN-11 REGAT-70 BOTAL-92 FANTOM-23 (comms checks)
2161.5 kHz, 25-10, 0419 UTC MARNA-67 clg outstations
4872 kHz, 24-10, 0448 UTC ANNAPO-01 clg outstations
4909 kHz, 22-10, 1201 UTC AGAT-66 clg DREDAC-34 NAGIL-26 (comms checks)
4859.5 kHz, 22-10, 1130 UTC MODO-92 clg FOULT-67 REHA-16 VARSAM-31 (comms checks)
4264 kHz, 22-10, 0555 UTC MATUSDA-83 clg FANTOM-23
6330 kHz, 22-10, 0605 UTC ILIA-64 clg SUGAR, BARON-13 ROMA-79 PROVO-86 TESTA-56 KAPKO-62 FARTAN-36
(comms checks)
3269 kHz, 19-10, 1704 UTC KAKTUS-38 clg MAKIET-29 VEKTOR-15 ARTEK-16 OSMONA-20 LIROKA-38 PROTOR-82 VERONA-71
AKART-91 LIST-98 (calling and exchanges reports)
5101 kHz, 20-10, 0413 UTC ZIRKA-69 clg OSEM-09 TECLA-88 MAVA-42 (comms checks)

RNv – Russian Navy

4387 kHz, 06-10, 0634 UTC VESTNIK (RMP) clg KOMUNA (RGX80)

RADv – Russian Air Defense

Russian Air Defense voice tracking nets were heard on the following frequencies:

2345, 2603, 3381.5, 3400, 3789, 3375, 3347, 2326, 3955. 4070, 4483, 4537, 5151.5, 5891, 6880 kHz



M32

Russian / CIS Military CW Stations

14411 kHz, 05-10, 0932 UTC XXX XXX RGT77 RGT77 46216 83489 WOLKOLAE 8802 6650 ZEWODROK 5601 1826 ZONTOMID 6874 7265

14411 kHz, 05-10, 0934 UTC XXX XXX WEGI WEGI 46957 95820 MA Ae Oe NYJ 0243 0205 SORTOWOJ 5701 0088

4827 kHz, 06-10, 1506 UTC XXX KÛRASO 2045 K

3685 kHz, 06-10, 1520 UTC XXX LB1E BEREZA 2754 7950 PAUZA 7788 3131 K

4181 kHz, 08-10, 0530 UTC RGT77: XXX WEGI 61638 ABAKOFINT 3801 5023 K

5569 kHz, 08-10, 0532 UTC XXX DDIZ 72333 SOWOK 0578 6263 K

5366 kHz, 08-10, 0535 UTC XXX WEGI 81642 MAKETNYJ 6137 0661 URODOBUER 2897 2733 K //4181 kHz

4181 kHz, 08-10, 0535 UTC XXX WEGI 81642 MAKETNYJ 6137 0661 URODOBUER 2897 2733 K //5366 kHz

5569 kHz, 08-10, 0555 UTC XXX DDIZ 84601 OQIPKA 2360 0128 K

5569 kHz, 08-10, 0601 UTC XXX DDIZ KONTROLX 8888 K

4602 kHz, 08-10, 0610 UTC VUOZ 90540 GORNOKAÛK 8592 8791 K //4558//4602//5240 kHz

4558 kHz, 08-10, 0610 UTC VUOZ 90540 GORNOKAÛK 8592 8791 K //4558//4602//5240 kHz

5240 kHz, 08-10, 0610 UTC VUOZ 90540 GORNOKAÛK 8592 8791 K //4558//4602//5240 kHz

4558 kHz, 08-10, 0612 UTC XXX VUOZ 62571 GRIMOÛERT 2152 8370 IDEALIZACIÂ 2499 5166 K //4558//4602//5240 kHz

4602 kHz, 08-10, 0612 UTC XXX VUOZ 62571 GRIMOÛERT 2152 8370 IDEALIZACIÂ 2499 5166 K //4558//4602//5240 kHz

5240 kHz, 08-10, 0612 UTC XXX VUOZ 62571 GRIMOÛERT 2152 8370 IDEALIZACIÂ 2499 5166 K //4558//4602//5240 kHz

4558 kHz, 08-10, 0617 UTC XXX VUOZ 36699 BUKDODAMP 5351 5627 K //4558//4602//5240 kHz

4602 kHz, 08-10, 0617 UTC XXX VUOZ 36699 BUKDODAMP 5351 5627 K //4558//4602//5240 kHz

5240 kHz, 08-10, 0617 UTC XXX VUOZ 36699 BUKDODAMP 5351 5627 K //4558//4602//5240 kHz

4602 kHz, 08-10, 0623 UTC XXX VUOZ 72768 LIKOKNOP 5059 6881 K //4558//4602//5240 kHz

4602 kHz, 08-10, 0623 UTC XXX VUOZ 72768 LIKOKNOP 5059 6881 K //4558//4602//5240 kHz

5240 kHz, 08-10, 0623 UTC XXX VUOZ 72768 LIKOKNOP 5059 6881 K //4558//4602//5240 kHz

4455 kHz, 08-10, 0629 UTC XXX GJBW 57619 POROVNÂK 5175 4424 04453 ChKALA 6135 2446 K

4455 kHz, 08-10, 0633 UTC XXX GJBW 65221 ZUBROBIZON 0819 1895 86911 ZAGA DÛIKT 1145 184 K

4455 kHz, 08-10, 0637 UTC XXX GJBW 46808 OKSIPROLIN 9202 3152 K

5240 kHz, 08-10, 0646 UTC XXX VUOZ 89636 GRUMOC h WED 2751 2832 K //4558//4602//5240 kHz

4558 kHz, 08-10, 0646 UTC XXX VUOZ 89636 GRUMOC h WED 2751 2832 K //4558//4602//5240 kHz

4602 kHz, 08-10, 0646 UTC XXX VUOZ 89636 GRUMOC h WED 2751 2832 K //4558//4602//5240 kHz

5569 kHz, 10-10, 0511 UTC XXX DDIZ 95815 BRAKOBORQ 4871 6201 K

5378 kHz, 10-10, 0516 UTC XXX VZFY 81863 OWESOSNOS 8886 7106 K

4775 kHz, 10-10, 0518 UTC XXX VZFY 81863 OWESOSNOS 8886 7106 K

5569 kHz, 10-10, 0520 UTC XXX DDIZ 53929 KLAKUC h KA 5045 0107 K

5366 kHz, 17-10, 1234 UTC XXX WEGI 93058 RAUTONARD 0480 8354 K

4558 kHz, 17-10, 1242 UTC XXX VUOZ 54040 ZÉKOROW 0834 5860 K

5096 kHz, 17-10, 1244 UTC XXX VUOZ 68585 DRAKA 7858 8837 K

4455 kHz, 17-10, 1256 UTC XXX GJBW 39585 HARÛEWNIK 9553 0689 K

4455 kHz, 17-10, 1258 UTC XXX GJBW 09387 ÉKWATIW 9977 0810 K

5569 kHz, 17-10, 1337 UTC XXX G7M3 KONTROLX 8888 K

5569 kHz, 17-10, 1338 UTC XXX G7M3 93509 GRANULÂCIÂ 3089 7515

5569 kHz, 17-10, 1357 UTC XXX G7M3 87430 POLYHANIE 5487 2237 K

5240 kHz, 17-10, 1358 UTC XXX VUOZ 87150 KLEQOPOST 6032 6012 K

3331 kHz, 17-10, 1542 UTC RGT77: XXX 1QRF F2ET 53682 33911 ULET 2354 5759 K

2613 kHz, 17-10, 1545 UTC XXX 24374 KENOTRON 6970 8862 K

3241 kHz, 17-10, 1652 UTC XXX LOMO 56980 PROKOCHIK 0781 1635 K

2613 kHz, 17-10, 1713 UTC XXX GJBW 10942 ARANEIDA 4643 9043 K

3222.5 kHz, 17-10, 1732 UTC XXX 49337 OBOBQENNYJ 1186 3356 K

3164.5 kHz, 17-10, 1746 UTC XXX YI1C NRAWOTRÛK 2696 4632 K

3164.5 kHz, 17-10, 1752 UTC XXX YI1C 58169 DIODOCHLÂH 0575 1020 K

2613 kHz, 17-10, 1754 UTC XXX GJBW 26070 POOQRITELX 7815 5407 K

2613 kHz, 17-10, 1758 UTC XXX GJBW 21235 GALAS 8987 4229 K

3814 kHz, 17-10, 1824 UTC 1ID2 DE U9NG: 1051 9895 2853 1460 2413 7232 4366 8677 9044 3468 8786 2006 K. 1ID2 R K

6825 kHz, 24-10, 0800 UTC XXX RGS5 TENIÛESKAÂ PROWERKA K. RFN67 R XXX QSA 4 K

2296.5 kHz, 25-10, 0213 UTC XXX PABA WARKIJ 823

4901.5 kHz, 25-10, 0725 UTC XXX PABA FINALIST 4006 K
4775 kHz, 21-10, 0948 UTC XXX VZFY 46546 NERÔINSKIJ 9167 9038 K
4901.5 kHz, 18-10, 0430 UC XXX PABA SHODVENNÂ 0206 K
6825 kHz, 24-10, 0800 UTC XXX RGS5 TENIÔESKAÂ PROWERKA K and RFN67 R XXX QSA 4 K
16112 kHz, 31-10, 1020 UTC RDL RDL RDL 09769 86127 09769 86127 09769 86127 K
16112 kHz, 31-10, 1031 UTC RDL RDL RDL 59232 22547 59232 22547 59232 22547 K

5693 kHz, 08-10, 1842 UTC

QTC K
RPT K
YYBY 595 27 8 2140 595 -
702 =
05242 05814 96030 21766 75530 99506 75344 76860 25624 62173
82082 29779 14619 11097 33368 59264 98897 47479 18677 90526
16893 08049 23785 30615 86302 08025 K

5388 kHz, 09-10, 0400 UTC

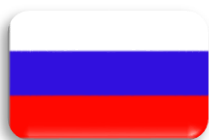
O7PK de 5GNB QTC 53 10 9 0630 = ZNK =
29835 97273 47385 29640 10847 49658 27890 42135 53124 =

3584 kHz, 09-10, 1344 UTC

ZEEK de YFJA QTC 195 15 9 1640 195 = ZWS 089 =
2920 7508 5863 0183 7424 1754 3290 7173 9751 2582 6328 2306 0912 =
RPT QLN AR

6012 kHz, 10-10/13-10, 1406 UTC, CIS mil net:

VVV EYA32 EYA32 EYA32 de RTH62 RTH62 QSA ? K
VVV UDX49 UDX49 UDX49 de RTH62 RTH62 QSA ? K
VVV EYX70 EYX70 EYX70 de RTH62 RTH62 QSA ? K
VVV ULF54 ULF54 ULF54 de RTH62 RTH62 QSA ? K
VVV UGX36 UGX36 UFX36 de RTH62 RTH62 QSA ? K
VVV EYS83 EYS83 EYS83 de RTH62 RTH62 QSA ? K



M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

3750 kHz, 04-10, 0303 UTC	XXX RGR99 START 4212 3415 K
3750 kHz, 04-10, 0316 UTC	XXX RGR99 MEREDIAN 4899 9755 K
6956 kHz, 04-10, 0500 UTC	RMW46 wkg RGR88, RGR89, RGR90, RGR91, RFH46, RGR92, RGR93, RGR94, RGR95, RGR96, RGR97, RDQ81, RGR98 RGR99
4498.5 kHz, 08-10, 0618 UTC	XXX RJD69 70446 LXE 5503 0653 K
4537.5 kHz, 10-10, 0423 UTC	RAS82 sends: QTC SML FOR FOR RJD90 RJH74 = 10031 99669 10327
4537.5 kHz, 10-10, 0455 UTC	RBC89 sends: QTC SML FOR RJD90 RJH74 = 10031 99671 10414
4537.5 kHz, 13-10, 0405 UTC	RBE99 sends: QTC SML FOR FOR RJD90 RJH74 = 13001 99662 10414
4810 kHz, 17-10, 1249 UTC	XXX RMU51 98367 BARDOSREZ 1679 9678 K
4909.5 kHz, 17-10, 1346 UTC	XXX RJD69 RJL96 27580 ZAPIRANIE 7802 5986 KATASTROFA 4992 8354 K

10232 kHz, 02-10, 0831 UTC using Japan remote tuner:

RCF7 DE RJS QTC 109 13 2 1129 109 =
AAAAA \ULZGU KSARN UFLLOL \APR\UD LMOKU NBOBL BEHOH W\HYTI OT\OEJ
GR\AQI NEUMS KBKAB =
RPT QWX AR

2630.5 kHz, 06-10, 1815 UTC

RCQK wkg RJD52: QTC SML FM RCQK FOR RJD52 FM RCQK FOR RJD52 RCQK FOR RJD52 RJD88 =
06181 99443 10480 41/96 91410 10140 2//// 40066 50000 70200 80000 22242 88000 80000 06014 =

AR RCQK K

4537.5 kHz, 09-10, 0309 UTC

RJD99 de RAS82 QTC 651 8 9 0601 651 = FOR RJD99 = FOR RJD99 =
00883 02122 00300 00004 00001 00010 09006 =
AR RAS82 K

3683 kHz, 11-10, 1700-1717 UTC (RJD99: Russian Navy Northern Fleet, Severodvinsk)

RJD99 de X1SU K
RJD99 de 7RNC K
RJD99 QRZ ? K
RJD99 de 7RNC QRV ? K

7RND de RJD99 QSA 1 QRV K
7RNC QSA 1 =
008 10 11 2000 008 =
4444 0928 0344 0000 0312 0035 0100 0915 2000 =
PROTEJ = R ? K
RJD99 R K

7RNC 009 11 11 2000 009 =
4444 0201 0385 0000 0132 0025 0110 0920 2000 =
SWIDETELX = NIKOLAJ = R ? K
RJD99 R K

7RNC 010 11 11 2000 010 =
4444 0201 0385 0000 0132 0025 0110 0921 2000 =
SWIDETELX = FILIP = R ? K
RJD99 NR 009 RPT 8 K
7RNC = 0920 K
RJD99 R 009 010 K

7RNC = 011 11 11 2000 011 =
4444 0201 0385 0000 0132 0025 0110 0922 2000 =
PREPODOBNYJ = SERGEJ = R ? K
RJD99 R K

7RNC 012 04 11 2000 012 =
00005 602// 8//// 00000 = R ? K. RJD99 R K
7RNC OK QRU SK
RJD99 QRU K

3683 kHz, 16-10, 0502 UTC (RJD99: Russian Navy Northern Fleet, Severodvinsk)

RJD99 DE 7RNC K
7RNC DE RJD99 QSA 2 QRV K
7RNC 041 04 16 0800 041 = 7777 0701 0800 = R ? k
RJD99 R K
7RNC = 042 04 16 0800 042 = 6666 0401 0504 0800 = R ? K
RJD99 R K
7RNC = 043 04 16 0800 043 = 00609 70533 8//// 00000 = R ? K
RJD99 R K
RJD99 DE FQAN = 025 03 16 0800 025 = 7777 0701 0800 = R ? K
RJD99 RK
7RNC = 026 03 16 0800 026 = 6666 0501 0800 = R ? K
RJD99 R K
7RNC = 027 04 16 0800 027 = 00610 70533 8//// 00000 = R ? K
RJD99 R K
7RNC QRU SK
RJD99 DE YBPG comms checks and messages
RJD99 RPT PBL K

YBPG ... / ...
RJD99 QSA 1/NO RPT PBL K

4478 kHz, 21-10, 1815 UTC

RJP58: QTC SML 95520 21 2105 955 = FOR RJH74 RJH45 =
21181 99708 10474 41/97 93208 10050 40350 54000 72026 8//// 22213 0//// 2//// 3//// 4//// 80000 88000 21017 =
AR RJP58 K

7602 kHz, 27-10, 1010 UTC, i.p.

10.1 01.04 40010 0000. 01824 .001. 00005 01824 50015 00006 01824 II
001.5 00102 01824 40011 AR T
XXX XXX RLO RLO ÉLASTI ONYJ 01 1045 050 135 1255
XXX XXX RLO RLO ÉLASTI ONYJ 01 1045 050 135 1255 K



M32b
Russian Naval Aviation
Aviatsiya Voenno-morskogo Flota Rossii

8816 kHz, 04-10, 0810

RJF94 RJC38 DE 30460 QTH 6519 3416 QTR 0805 QBG 5800 K
QTH 611 3223 QTR 0905 QBD 2800 QRE XLLV 0945 K
QQM XLLV 0935 SK

8816 kHz, 04-20, 1111 UTC

RJF94 RJC38 DE 30460 QTO 1100 QRD XUMO XLLV QBD 5500 QRE 1300 K
QTH 5805 3407 QTR 1200 QBG 4000 QRE XUMO 1300 K
QQM XUMO 1300 SK

8816 kHz, 04-10, 1423 UTC

RJF94 RJC38 DE 30460 QTO 1410 QRD XLMV XUMO QBD 5500 QRE 1900 K
QTH 5842 3803 QTR 1510 QBG 5500 K
QTH 6229 3613 QTR 1610 QBD 3000 K
QTH 6548 3358 QTR 1710 QBG 5500 QRE XLMV 1810 K
QQM XLMV 1815 SK

8816 kHz, 17-10, 0714 UTC

RJF94 RJC38 DE 10575 QTO 0703 QRD XLWF XLMV QRE 0915 QBD 13200 K
QQL ULPE 0807 QBG 7000 QRE XLWF 0915 K
QQM XLWF 0917 SK

8816 kHz, 17-10, 1039 UTC

RJF94 RJC38 DE 10575 QTO 1033 QRD XLMV XLWF QRE 1300 QBD 13600 K
QAY XLPB 1112 QBG 6700 K
QQL ULPE 1153 QRE XLMV 1255 K
QQM XLMV 1258 SK

8816 kHz, 17-10, 1542 UTC

RJF94 RJC38 DE 10575 QTO 1535 QRD XLDR XLMV QRE 1720 QBD 14000 K
QTH 7050 4450 QTR 1640 QRE XLDR 1720 K
QQM XLDR 1718 SK

8816 kHz, 18-10, 0710 UTC, i.p.

0753 QBD 3400 QBG 5200 QRE XLAA 0825 K
QQM XLAA 0825 SK

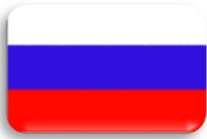
8816 kHz, 18-10, 1126 UTC

RJF94 RJC38 DE 42171 QTO 1115 QRD XUMU XLMV QRE 1330 QBD 14000 K

QAY XLPB 1219 QBG 9400 QBD 10000 K
QQM XUMU 1322 SK

8816 kHz, 18-10, 1512 UTC

RJC38 RJF94 DE 30456 QTO 1500 QRD XLMV XLAA QRE 1655 QBD 4800 K
QTH 6646 3750 QTR 1552 QBD 3900 QBG 5500 QRE XLMV 1640 K



M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

2807 kHz, 17-10, 1540 UTC XXX 25067 LEBEDENOK 21081156



*JCS FOXTROT MESSAGES &
EMERGENCY ACTION MESSAGES*

Joint Chief of Staff Emergency Action Messages and Foxtrot Messages

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

07-10, 1806 UTC	Protozoa	30 chr EAM i.p. T63DYMUIJ23UFWL3BHZWVQ
07-10, 1818 UTC	Protozoa	30 chr EAM HPFDWU JFGDNNELJGBLVPVSJZV3VG4R
07-10, 1831 UTC	Protozoa	30 chr EAM HPLHNJ KIW6FYPUQXJ5WHMZ5CFRVGDQ
07-10, 1833 UTC	Protozoa	30 chr EAM HPMHUD SNNRGAABBBKC2PBCOKIDZXJN
07-10, 1836 UTC	Protozoa	30 chr EAM HPYT63 DYMUIJ23UFWL3BHZWVQSRRCW
07-10, 1900 UTC	Protozoa	30 chr EAM HPLHNJ KIW6FYPUQXJ5WEMZ5CFRVGDQ
07-10, 1902 UTC	Protozoa	30 chr EAM HPMHUD SNNRGAABBBKC2PBCOKIDZXJN
07-10, 1904 UTC	Protozoa	30 chr EAM HPYT63 DYMUIJ23UFWL3BHZWVQSRRCW
08-10, 0627 UTC	Detergent	30 chr EAM HPGFAD BYB2EY32VJBDAUNUESKPBVD
08-10, 0639 UTC	Detergent	30 chr EAM HPSWWG HD5VBU4HDMRI2BP77ZFAQAOP
08-10, 0646 UTC	Detergent	30 chr EAM HPFCZZ YR4GSBG3JYUGPIHCOVCEZ3IN
08-10, 0650 UTC	Offutt	Skyking Jive time 50 authentication AR
09-10, 0737 UTC	Holdfast	30 chr EAM HP3ANN CTGNNPXPOR7X5HCKWAJGWOO
09-10, 0740 UTC	Holdfast	30 chr EAM HP3ANN disregard this message
09-10, 0741 UTC	Holdfast	30 chr EAM HPDIOZ WUDDNXFFUKITZSU6AAYGYDWY
09-10, 0750 UTC	Holdfast	30 chr EAM HPBAZE H6TLEWYDYJA6DJYBFA6OGP6V

LOGS SECTION

The logs are sorted on Code, date and time. Thanks to all contributors !!!!

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
---	18397	12-10	0907	Wed	i.p. 45 55561 83635 20087 99901 10224 76771 93451 54137 32338 45796 45493 120 47 K. NR 248 RPT (short zero's)	CW	(AB)
DPRK	8260	7-10	0945	Fri	North Korean diplo, Pyongyang	DPRK-ARQ 600/600 LSB	(EW)
E06	18425	6-10	0600	Thu	186 425 103 74424 56000 28040 61182 00000	USB	(ES)
E06	5186	6-10	2030	Thu	Started as M14 then switched to E06. 891 569 63 14259 22676 32782 ... 32333 43433 54545 569 63 00000	USB	(AB)
E06	18425	7-10	0600	Fri	186 425 103 74424 56000 28040 61182 00000	USB	(ES)
E06	20230	7-10	0700	Fri	186 425 103 74424 56000 28040 61182 00000	USB	(ES)
E06	18425	20-10	0600	Thu	186 425 103 74424 56000 24727 ... 35372 28040 61182 425 103 00000	USB	(AB-I/ES/HFD)
E06	20230	20-10	0700	Thu	186 425 103 74424 56000 24727 ... 35372 28040 61182 425 103 00000	USB	(AB-RUS/HFD)
E06	5186	20-10	2030	Thu	891 569 63 14259 22676 32782 ... 32333 43433 5 sud- den sign off	USB	(AB)
E06	18425	21-10	0600	Fri	186 425 103 74424 56000 24727 ... 35372 28040 61182 425 103 00000	USB	(AB-I/ES)
E06	20230	21-10	0700	Fri	186 425 103 74424 56000 24727 ... 35372 28040 61182 425 103 00000	USB	(AB-I/ES)
E07	9064	1-10	0600	Sat	024 1 672 121 28388 26540 87795 ... 94029 12925 31123 000 000	USB	(AB/BvR/ES/HF D)
E07	10264	1-10	0620	Sat	024 1 672 121 28388 26540 87795 ... 94029 12925 31123 000 000	USB	(AB/BvR/ES/HF D)
E07	11464	1-10	0640	Sat	024 1 672 121 28388 26540 87795 ... 94029 12925 31123 000 000	USB	(AB/ES/HFD)
E07	9064	2-10	0600	Sun	024 1 672 121 28388 26540 87795 ... 94029 12925 31123 000 000	USB	(AB/HFD)
E07	10264	2-10	0620	Sun	024 1 672 121 28388 26540 87795 ... 94029 12925 31123 000 000	USB	(AB)
E07	11464	2-10	0640	Sun	024 1 672 121 28388 26540 87795 ... 94029 12925 31123 000 000	USB	(AB)
E07	13376	2-10	1700	Sun	317 1 551 51 05284 00927 25779 ... 66212 10142 45948 000 000	AM	(AB/HFD)
E07	12176	2-10	1720	Sun	317 1 551 51 05284 00927 25779 ... 66212 10142 45948 000 000	AM	(AB/HFD)
E07	10776	2-10	1740	Sun	317 1 551 51 05284 00927 25779 ... 66212 10142 45948 000 000	AM	(AB/HFD)
E07	11539	3-10	1900	Mon	511 1 324 51 4829	USB	(HFD)
E07	10139	3-10	1920	Mon	511 1	USB	(HFD)
E07	8139	3-10	1940	Mon	511 1	USB	(HFD)
E07	13376	5-10	1700	Wed	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB/MPJ)
E07	12176	5-10	1720	Wed	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB)
E07	10776	5-10	1740	Wed	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB)
E07	11539	5-10	1900	Wed	511 1 324 51 48299 09182 07248 ... 15839 27211 22577 000 000	USB	(AB)
E07	10139	5-10	1920	Wed	511 1 324 51 48299 09182 07248 ... 15839 27211 22577 000 000	USB	(AB/MPJ)
E07	8139	5-10	1940	Wed	511 1 324 51 48299 09182 07248 ... 15839 27211 22577 000 000	USB	(AB)
E07	7516	6-10	2010	Thu	584 584 584 000	AM	(AB/HFD)
E07	5836	6-10	2030	Thu	584 584 584 000	AM	(AB/HFD)
E07	9064	8-10	0600	Sat	024 024 024 000	USB	(AB/ES)
E07	10264	8-10	0620	Sat	024 024 024 000	USB	(AB/ES)
E07	9064	9-10	0600	Sun	024 024 024 000	USB	(AB)
E07	10264	9-10	0620	Sun	024 024 024 000	USB	(AB)

E07	13376	9-10	1700	Sun	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB/MPJ)
E07	12176	9-10	1720	Sun	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB/MPJ)
E07	10776	9-10	1740	Sun	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB/MPJ)
E07	11539	10-10	1900	Mon	511 1 324 51 48299 09182 07248 ... 15839 27211 22577 000 000	USB	(AB/MPJ)
E07	10139	10-10	1920	Mon	511 1 324 51 48299 09182 07248 ... 15839 27211 22577 000 000	USB	(AB/MPJ)
E07	8139	10-10	1940	Mon	511 1 324 51 48299 09182 07248 ... 15839 27211 22577 000 000	USB	(AB/MPJ)
E07	13376	12-10	1700	Wed	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB)
E07	12176	12-10	1720	Wed	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB)
E07	10776	12-10	1740	Wed	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB)
E07	11539	12-10	1900	Wed	511 1 324 51 48299 09182 07248 ... 15839 27211 22577 000 000	USB	(AB/MPJ)
E07	10139	12-10	1920	Wed	511 1 324 51 48299 09182 07248 ... 15839 27211 22577 000 000	USB	(AB/MPJ)
E07	8139	12-10	1940	Wed	511 1 324 51 48299 09182 07248 ... 15839 27211 22577 000 000	USB	(AB/MPJ)
E07	7516	13-10	2010	Thu	584 584 584 000	AM	(AB)
E07	5836	13-10	2030	Thu	584 584 584 000	AM	(AB)
E07	9064	15-10	0600	Sat	024 024 024 000	USB	(AB/F5JBR)
E07	10264	15-10	0620	Sat	024 024 024 000	USB	(AB)
E07	9064	16-10	0600	Sun	024 024 024 000	USB	(AB)
E07	10264	16-10	0620	Sun	024 024 024 000	USB	(AB)
E07	13376	16-10	1700	Sun	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB/MPJ)
E07	12176	16-10	1720	Sun	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB/MPJ)
E07	10776	16-10	1740	Sun	317 1 298 95 02086 81514 56996 ... 78344 44399 52235 000 000	AM	(AB/MPJ)
E07	11539	17-10	1900	Mon	511 511 511 000	USB	(AB/MPJ)
E07	10139	17-10	1920	Mon	511 511 511 000	USB	(AB)
E07	13376	19-10	1700	Wed	317 317 317 000	AM	(Danix)
E07	12176	19-10	1720	Wed	317 317 317 000	AM	(Danix)
E07	11539	19-10	1900	Wed	511 511 511 000	AM	(Danix)
E07	10139	19-10	1920	Wed	511 511 511 000	AM	(Danix)
E07	7517	20-10	2010	Thu	584 584 584 000	AM	(Danix)
E07	5836	20-10	2030	Thu	584 584 584 000	AM	(Danix)
E07	9064	22-10	0600	Sat	024 024 024 000	USB	(AB)
E07	10264	22-10	0620	Sat	024 024 024 000	USB	(AB)
E07	9064	23-10	0600	Sun	024 024 024 000	USB	(AB)
E07	10264	23-10	0620	Sun	024 024 024 000	USB	(AB)
E07	13376	23-10	1700	Sun	317 317 317 000	AM	(AB)
E07	12176	23-10	1720	Sun	317 317 317 000	AM	(AB)
E07	11539	24-10	1900	Mon	511 511 511 000	USB	(AB/MPJ)
E07	10139	24-10	1920	Mon	511 511 511 000	USB	(AB)
E07	11539	26-10	1900	Wed	511 511 511 0000	USB	(AB-RUS)
E07	10139	26-10	1920	Wed	511 511 511 0000	USB	(AB/MPJ)
E07	7516	27-10	2010	Thu	584 584 584 000	AM	(AB-RUS)
E07	5836	27-10	2030	Thu	584 584 584 000	AM	(AB-RUS)
E07	9064	29-10	0600	Sat	024 024 024 000	USB	(AB)
E07	10264	29-10	0620	Sat	024 024 024 000	USB	(AB)
E07	9064	30-10	0600	Sun	024 024 024 000	USB	(AB)
E07	10264	30-10	0620	Sun	024 024 024 000	USB	(AB)
E07	12176	30-10	1620	Sun	317 317 317 000	AM	(MPJ)
E07	13376	30-10	1700	Sun	317 317 317 000	AM	(Danix-RUS)
E07	12176	30-10	1720	Sun	317 317 317 000	AM	(Danix-RUS)
E07	11539	31-10	1900	Mon	511 1 176 64 71422 51497 73662 ... 80497 20444 49532 000 000	USB	(AB/MPJ)

E07	10139	31-10	1920	Mon	511 1 176 64 71422 51497 73662 ... 80497 20444 49532 000 000	USB	(AB/MPJ)
E07	8139	31-10	1940	Mon	511 1 176 64 71422 51497 73662 ... 80497 20444 49532 000 000	USB	(AB/MPJ)
E07a	11484	1-10	0800	Sat	413 413 413 000	USB	(AB/ES)
E07a	12184	1-10	0820	Sat	413 413 413 000	USB	(AB/ES)
E07a	6788	5-10	0430	Wed	741 0	USB	(HFD)
E07a	7488	5-10	0450	Wed	741 0	USB	(HFD)
E07a	8144	5-10	2000	Wed	197 197 197 000	USB	(AB/HFD)
E07a	6944	5-10	2020	Wed	197 197 197 000	USB	(AB/HFD)
E07a	6788	6-10	0430	Thu	741 741 741 000	USB	(AB/ES)
E07a	7488	6-10	0450	Thu	741 741 741 000	USB	(AB/ES)
E07a	11424	7-10	1510	Fri	411 411 411 000	USB	(AB/GHn/HFD)
E07a	10124	7-10	1530	Fri	411 411 411 000	USB	(AB/MPJ/HFD)
E07a	11484	8-10	0800	Sat	413 413 413 000	USB	(AB/HFD)
E07a	12184	8-10	0820	Sat	413 413 413 000	USB	(AB/HFD)
E07a	8144	12-10	2000	Wed	197 1 61219 4838 65 68870 48870 17079 ... 52234 44080 01551 000 000	USB	(AB/MPJ)
E07a	6944	12-10	2020	Wed	197 1 61219 4838 65 68870 48870 17079 ... 52234 44080 01551 000 000	USB	(AB)
E07a	5744	12-10	2040	Wed	197 1 61219 4838 65 68870 48870 17079 ... 52234 44080 01551 000 000	USB	(AB)
E07a	6788	13-10	0430	Thu	741 1 61219 4838 65 68870 48870 17079 ... 52234 44080 01551 000 000	USB	(AB/ES)
E07a	7488	13-10	0450	Thu	741 1 61219 4838 65 68870 48870 17079 ... 52234 44080 01551 000 000	USB	(AB/ES)
E07a	8188	13-10	0510	Thu	741 1 61219 4838 65 68870 48870 17079 ... 52234 44080 01551 000 000	USB	(AB/ES)
E07a	11424	14-10	1510	Fri	411 411 411 000	USB	(AB/MPJ)
E07a	10124	14-10	1530	Fri	411 411 411 000	USB	(AB/MPJ)
E07a	11484	15-10	0800	Sat	413 413 413 000	USB	(AB/ES)
E07a	12184	15-10	0820	Sat	413 413 413 000	USB	(AB)
E07a	8144	19-10	2000	Wed	197 197 197 000	USB	(AB)
E07a	6944	19-10	2020	Wed	197 197 197 000	USB	(AB)
E07a	6788	20-10	0430	Thu	741 741 741 000	USB	(AB)
E07a	7488	20-10	0450	Thu	741 741 741 000	USB	(AB)
E07a	11424	21-10	1510	Fri	411 411 411 000	USB	(AB)
E07a	10124	21-10	1530	Fri	411 411 411 000	USB	(AB)
E07a	11484	22-10	0800	Sat	413 413 413 000	USB	(AB/BvR)
E07a	12184	22-10	0820	Sat	413 413 413 000	USB	(AB/BvR)
E07a	8144	26-10	2000	Wed	197 197 197 000	USB	(AB)
E07a	6944	26-10	2020	Wed	197 197 197 000	USB	(AB)
E07a	6788	27-10	0430	Thu	741 741 741 000	USB	(AB)
E07a	7488	27-10	0450	Thu	741 741 741 000	USB	(AB)
E07a	11424	28-10	1510	Fri	411 411 411 000	USB	(AB/MPJ)
E07a	10124	28-10	1530	Fri	411 411 411 000	USB	(AB/MPJ)
E07a	11484	29-10	0800	Sat	413 413 413 000	USB	(AB)
E07a	12184	29-10	0820	Sat	413 413 413 000	USB	(AB)
E11	14769	1-10	0710	Sat	491/00	USB	(AB)
E11	10302	1-10	1300	Sat	585/00	USB	(AB)
E11	13046	1-10	1345	Sat	911/00	USB	(AB)
E11	10213	1-10	1705	Sat	392/00	USB	(AB)
E11	5844	1-10	1730	Sat	405/00	USB	(AB)
E11	8186	1-10	2005	Sat	363/00 OUT	USB	(ES)
E11	15825	2-10	0730	Sun	352/00	USB	(AB)
E11	11450	2-10	0805	Sun	311/00	USB	(AB)
E11	6397	2-10	1605	Sun	232/00	USB	(AB/MPJ)
E11	10448	2-10	1625	Sun	972/00	USB	(AB/MPJ)
E11	13873	2-10	1650	Sun	921/00	USB	(AB/MPJ)
E11	8186	2-10	2005	Sun	363/00	USB	(AB)
E11	6304	3-10	0450	Mon	416/00 OUT	USB	(ES)
E11	10213	3-10	0745	Mon	262/00	USB	(AB)
E11	7317	3-10	0820	Mon	438/00	USB	(AB)
E11	20286	3-10	1225	Mon	521/00	USB	(AB)
E11	13470	3-10	1745	Mon	242/00	USB	(AB/MPJ)
E11	15632	4-10	1300	Tue	133/00	USB	(AB/ES)

E11	13046	4-10	1345	Tue	911/00	USB	(AB)
E11	10641	4-10	1450	Tue	441/00	USB	(AB/MPJ)
E11	6397	4-10	1605	Tue	232/00	USB	(AB/MPJ)
E11	7850	5-10	0315	Wed	253/00	USB	(AB)
E11	15915	5-10	0545	Wed	348/00	USB	(AB/ES)
E11	11405	5-10	0805	Wed	311/00	USB	(AB/ES)
E11	15632	5-10	1300	Wed	133/00	USB	(AB/MPJ)
E11	10448	5-10	1625	Wed	972/00	USB	(MPJ)
E11	5844	5-10	1730	Wed	405/00	USB	(MPJ)
E11	7850	6-10	0315	Thu	253/00	USB	(AB/ES)
E11	14769	6-10	0710	Thu	491/00 OUT	USB	(ES)
E11	7317	6-10	0820	Thu	438/00	USB	(AB/ES)
E11	10302	6-10	1300	Thu	585/00	USB	(MPJ)
E11	10641	6-10	1450	Thu	441/00	USB	(AB/MPJ)
E11	10330	6-10	1530	Thu	262/00	USB	(AB/MPJ)
E11	9371	6-10	1730	Thu	416/00	USB	(AB/MPJ)
E11	10620	6-10	1925	Thu	551/00	USB	(MPJ)
E11	15915	7-10	0545	Fri	348/00	USB	(AB)
E11	13873	7-10	1650	Fri	921/00	USB	(AB/MPJ)
E11	14769	8-10	0710	Sat	491/00	USB	(AB)
E11	10302	8-10	1300	Sat	585/00	USB	(AB)
E11	13046	8-10	1345	Sat	911/00	USB	(AB)
E11	5844	8-10	1730	Sat	405/00	USB	(AB/MPJ)
E11	15825	9-10	0730	Sun	352/00	USB	(AB)
E11	11450	9-10	0805	Sun	311/00	USB	(AB)
E11	6397	9-10	1605	Sun	232/00	USB	(AB/MPJ)
E11	10448	9-10	1625	Sun	972/00	USB	(AB/MPJ)
E11	13873	9-10	1650	Sun	921/00	USB	(AB/MPJ)
E11	13470	9-10	1745	Sun	242/00	USB	(AB/MPJ)
E11	6304	10-10	0450	Mon	416/00 OUT	USB	(ES)
E11	7317	10-10	0530	Mon	649/00	USB	(AB)
E11	7317	10-10	0820	Mon	438/00	USB	(AB)
E11	9399	10-10	0900	Mon	534/00	USB	(AB)
E11	20286	10-10	1225	Mon	521/00	USB	(AB/MPJ)
E11	13470	10-10	1745	Mon	242/00	USB	(AB/MPJ)
E11	10800	11-10	0645	Tue	517/00	USB	(AB)
E11	14575	11-10	0745	Tue	335/00	USB	(AB/ES)
E11	9443	11-10	1205	Tue	469/00	USB	(AB/ES)
E11	13046	11-10	1345	Tue	911/00	USB	(AB/MPJ/ES)
E11	10641	11-10	1450	Tue	441/00	USB	(AB/GHn/MPJ/ES)
E11	6397	11-10	1605	Tue	232/00	USB	(AB/MPJ)
E11	10620	11-10	2125	Tue	?22/34 ...	USB	(AB)
E11	7850	12-10	0315	Wed	253/00 OUT	USB	(ES)
E11	15915	12-10	0545	Wed	347/38 Attention 74422 11226 52711 ... 07051 53209 55782 Attention, rpt msg, out	USB	(AB)
E11	11405	12-10	0805	Wed	311/00	USB	(AB/ES)
E11	9399	12-10	0900	Wed	534/00	USB	(AB.ES)
E11	8803	12-10	0930	Wed	270/00	USB	(AB/ES)
E11	9443	12-10	1205	Wed	469/00	USB	(AB/ES)
E11	10448	12-10	1625	Wed	972/00	USB	(AB)
E11	5844	12-10	1730	Wed	409/33 Attention 11891 77887 46467 ... 66968 30713 79407 Attention, rpt msg, out	USB	(AB)
E11	7317	13-10	0530	Thu	649/00	USB	(AB/ES)
E11	10800	13-10	0645	Thu	517/00	USB	(AB/ES)
E11	14575	13-10	0745	Thu	335/00	USB	(AB)
E11	7317	13-10	0820	Thu	438/00	USB	(AB)
E11	8803	13-10	0930	Thu	270/00	USB	(AB)
E11	10302	13-10	1300	Thu	585/00	USB	(AB/MPJ)
E11	10641	13-10	1450	Thu	441/00	USB	(AB/GHn/MPJ)
E11	9371	13-10	1730	Thu	416/00	USB	(AB/MPJ)
E11	15915	14-10	0545	Fri	347/38 Attention 74422 11226 52711 ... 07051 53209 55782 Attention, rpt msg, out	USB	(AB)
E11	15825	14-10	0730	Fri	352/00	USB	(AB)
E11	13873	14-10	1650	Fri	921/00	USB	(AB/MPJ)

E11	14769	15-10	0710	Sat	490/33 Attention 24595 08307 49207 ... 83439 80414 17477 Attention, rpt msg, out	USB	(AB)
E11	10302	15-10	1300	Sat	585/00	USB	(AB/ES)
E11	13046	15-10	1345	Sat	911/00	USB	(AB)
E11	10213	15-10	1705	Sat	392/00	USB	(AB/BvR)
E11	5844	15-10	1730	Sat	409/33 Attention 11891 77887 46467 ... 66968 30713 79407 Attention, rpt msg, out	USB	(AB/BvR)
E11	15825	16-10	0730	Sun	352/00	USB	(AB)
E11	11450	16-10	0805	Sun	311/00	USB	(AB)
E11	6397	16-10	1605	Sun	232/00	USB	(AB/MPJ)
E11	10448	16-10	1625	Sun	972/00	USB	(AB/MPJ)
E11	13873	16-10	1650	Sun	921/00	USB	(AB/MPJ)
E11	13470	16-10	1745	Sun	242/00	USB	(Stock)
E11	7317	17-10	0530	Mon	649/00	USB	(AB/F5JBR)
E11	10213	17-10	0745	Mon	262/00	USB	(AB)
E11	9399	17-10	0900	Mon	534/00	USB	(AB)
E11	10800	18-10	0645	Tue	517/00	USB	(AB/ES)
E11	14575	18-10	0745	Tue	335/00	USB	(AB/ES)
E11	9443	18-10	1205	Tue	469/00	USB	(AB/MPJ)
E11	15632	18-10	1300	Tue	133/00	USB	(AB/ES)
E11	13046	18-10	1345	Tue	911/00	USB	(AB/MPJ)
E11	10641	18-10	1450	Tue	441/00	USB	(AB/MPJ)
E11	6397	18-10	1605	Tue	235/37 Attention 33683 91626 64128 ... 85228 95457 80378 Attention, rpt msg, out	USB	(AB/MPJ)
E11	15915	19-10	0545	Wed	348/00	USB	(AB)
E11	11405	19-10	0805	Wed	311/00	USB	(AB)
E11	9399	19-10	0900	Wed	534/00	USB	(AB)
E11	8803	19-10	0930	Wed	270/00	USB	(AB)
E11	9443	19-10	1205	Wed	469/00	USB	(AB)
E11	15632	19-10	1300	Wed	133/00	USB	(AB)
E11	10448	19-10	1625	Wed	972/00	USB	(AB)
E11	10213	19-10	1705	Wed	392/00	USB	(AB)
E11	5844	19-10	1730	Wed	405/00	USB	(AB)
E11	7317	20-10	0530	Thu	649/00	USB	(AB)
E11	10800	20-10	0645	Thu	517/00	USB	(AB)
E11	14575	20-10	0745	Thu	335/00	USB	(AB)
E11	8803	20-10	0930	Thu	270/00	USB	(AB)
E11	10302	20-10	1300	Thu	585/00	USB	(AB)
E11	10641	20-10	1450	Thu	441/00	USB	(AB)
E11	15915	21-10	0545	Fri	348/00	USB	(AB)
E11	14769	22-10	0710	Sat	491/00	USB	(AB)
E11	10302	22-10	1300	Sat	585/00	USB	(AB)
E11	13046	22-10	1345	Sat	911/00	USB	(AB/GHn)
E11	5844	22-10	1730	Sat	405/00	USB	(AB)
E11	8186	22-10	2005	Sat	363/00	USB	(AB)
E11	11450	23-10	0805	Sun	311/00	USB	(AB)
E11	10448	23-10	1625	Sun	972/00	USB	(AB)
E11	8186	23-10	2005	Sun	363/00	USB	(AB)
E11	6304	24-10	0450	Mon	416/00	USB	(AB)
E11	7317	24-10	0530	Mon	649/00	USB	(AB)
E11	10213	24-10	0745	Mon	262/00	USB	(AB)
E11	7317	24-10	0820	Mon	438/00	USB	(AB)
E11	13470	24-10	1745	Mon	242/00	USB	(AB)
E11	10800	25-10	0645	Tue	517/00	USB	(AB)
E11	14575	25-10	0745	Tue	335/00	USB	(AB)
E11	8102	25-10	1045	Tue	576/00	USB	(AB/MPJ)
E11	9443	25-10	1205	Tue	469/00	USB	(AB)
E11	15632	25-10	1300	Tue	133/00	USB	(AB)
E11	6397	25-10	1605	Tue	232/00	USB	(AB/MPJ)
E11	11405	26-10	0805	Wed	314/31 Attention 76749 51734 17568 ... 32229 18594 40022 Attention, rpt msg, out	USB	(AB-I)
E11	9399	26-10	0900	Wed	534/00	USB	(AB)
E11	8803	26-10	0930	Wed	270/00	USB	(AB)
E11	9443	26-10	1205	Wed	469/00	USB	(AB)
E11	15632	26-10	1300	Wed	133/00	USB	(AB)
E11	5844	26-10	1730	Wed	405/00	USB	(AB)

E11	7317	27-10	0530	Thu	649/00	USB	(AB)
E11	10800	27-10	0645	Thu	517/00	USB	(AB)
E11	14769	27-10	0710	Thu	491/00	USB	(AB)
E11	14575	27-10	0745	Thu	335/00	USB	(AB)
E11	7317	27-10	0820	Thu	438/00	USB	(AB)
E11	8803	27-10	0930	Thu	270/00	USB	(AB)
E11	9371	27-10	1730	Thu	416/00	USB	(AB)
E11	15915	28-10	0545	Fri	348/00	USB	(AB-RUS)
E11	13873	28-10	1650	Fri	921/00	USB	(MPJ)
E11	7377	28-10	2000	Fri	576/00	USB	(AB)
E11	14769	29-10	0710	Sat	491/00	USB	(AB)
E11	10213	29-10	1705	Sat	392/00	USB	(AB)
E11	5844	29-10	1730	Sat	405/00	USB	(AB/MPJ)
E11	8186	29-10	2005	Sat	363/00	USB	(AB)
E11	15825	30-10	0730	Sun	352/00	USB	(AB)
E11	11450	30-10	0805	Sun	314/31 Attention 76749 51734 17568 ... 32229 18594 40022 Attention, rpt msg, out	USB	(AB-FNL)
E11	6397	30-10	1605	Sun	232/00	USB	(AB/MPJ)
E11	13873	30-10	1650	Sun	021/00	USB	(MPJ)
E11	13470	30-10	1745	Sun	242/00	USB	(AB/MPJ)
E11	8186	30-10	2005	Sun	363/00	USB	(AB/MPJ)
E11	7317	31-10	0530	Mon	649/00	USB	(AB)
E11	10213	31-10	0745	Mon	262/00	USB	(AB)
E11	7317	31-10	0820	Mon	438/00	USB	(AB)
E11	9399	31-10	0900	Mon	534/00	USB	(AB)
E11	13470	31-10	1745	Mon	242/00	USB	(AB/MPJ)
E11a	7317	3-10	0530	Mon	643/37 Attention ...	USB	(AB)
E11a	9399	3-10	0900	Mon	532/35 Attention 07734 24942 49108 ... 11617 63784 37401 Attention, rpt msg, out	USB	(AB)
E11a	14557	4-10	0745	Tue	337/34 Attention ...	USB	(AB/ES)
E11a	8102	4-10	1045	Tue	575/36 Attention 05370 37783 04621 09023 01704 ...	USB	(AB/MPJ/ES)
E11a	9443	4-10	1205	Tue	469/36 Attention 66694 03972 32458 ... 64423 18597 90989 Attention, rpt msg, out	USB	(AB/ES)
E11a	9399	5-10	0900	Wed	532/35 Attention 07734 24942 49108 ... 11617 63784 37401 Attention, rpt msg, out	USB	(AB)
E11a	8803	5-10	0930	Wed	276/38 Attention 49041 75935 04473 ... 06650 81502 85346 Attention, rpt msg, out	USB	(AB)
E11a	9443	5-10	1205	Wed	469/36 Attention 66694 03972 32458 ... 64423 18597 90989 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	10213	5-10	1705	Wed	392/38 Attention 83890 64718 99759 88431 62859 ... 19364 30765 06524 32127 67575	USB	(MPJ)
E11a	7317	6-10	0530	Thu	643/37 Attention 19277 32437 74917 ... 10975 11085 82436 Attention, rpt msg, out	USB	(AB/ES)
E11a	10800	6-10	0645	Thu	517/31 Attention 81780 95255 10505 ... 83155 81899 98292 Attention, rpt msg, out	USB	(AB)
E11a	14575	6-10	0745	Thu	337/34 Attention ...	USB	(AB/ES)
E11a	8803	6-10	0930	Thu	276/38 Attention 49041 75935 04473 ... 06650 81502 85346 OUT	USB	(ES)
E11a	10213	8-10	1705	Sat	392/38 Attention 83890 64718 99759 ... 06524 32127 67575 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	8186	8-10	2005	Sat	369/38 Attention 45480 95342 44939 ... 54222 94074 76153 OUT	USB	(ES)
E11a	8186	9-10	2005	Sun	369/38 Attention 45480 95342 44939 ... 54222 94074 76153 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	10213	10-10	0745	Mon	261/38 Attention 01290 43816 66917 ... 35208 25480 49700 Attention, rpt msg, out	USB	(AB)
E11a	8102	11-10	1045	Tue	576/00	USB	(AB/ES)
E11a	15632	11-10	1300	Tue	135/31 Attention 20117 28555 33377 ... 22291 32505 75720 Attention, rpt msg, out	USB	(AB/MPJ/ES)
E11a	15632	12-10	1300	Wed	135/31 Attention 20117 28555 33377 ... 22291 32505 75720 Attention, rpt msg, out	USB	(AB)
E11a	10213	12-10	1705	Wed	392/00	USB	(AB)
E11a	14769	13-10	0710	Thu	490/33 Attention 24595 08307 49207 ... 83439 80414 17477 Attention, rpt msg, out	USB	(AB)
E11a	10330	13-10	1530	Thu	261/38 Attention 01290 43816 66917 ... 35208 25480 49700 Attention, rpt msg, out	USB	(AB/MPJ)

E11a	8186	16-10	2005	Sun	363/00	USB	(AB/MPJ)
E11a	6304	17-10	0450	Mon	413/32 ...	USB	(ES)
E11a	6304	17-10	0452	Mon	i.p. 413/32 Attention ...	USB	(F5JBR)
E11a	7317	17-10	0820	Mon	439/36 Attention 93251 54412 79599 ... 45619 60011 03878 Attention, rpt msg, out	USB	(AB)
E11a	20286	17-10	1225	Mon	521/00	USB	(MPJ)
E11a	13470	17-10	1745	Mon	249/31 Attention 27601 35616 59141 54157 04266 89881 86403 16390 14857 ... Attention, rpt msg, out	USB	(AB)
E11a	8102	18-10	1045	Tue	576/00	USB	(AB/ES)
E11a	14769	20-10	0710	Thu	491/00	USB	(AB)
E11a	7317	20-10	0820	Thu	439/36 Attention 93251 54412 79599 ... 45619 60011 03878 Attention, rpt msg, out	USB	(AB)
E11a	9371	20-10	1730	Thu	413/32 Attention 35360 60434 28761 ... 15365 36831 85117 Attention, rpt msg, out	USB	(AB)
E11a	15825	21-10	0730	Fri	353/35 Attention 78784 04802 30592 ... 05059 58329 15330 Attention, rpt msg, out	USB	(AB)
E11a	13873	21-10	1650	Fri	924/35 Attention 93266 93801 36717 ... 24818 95762 64982 Attention, rpt msg, out	USB	(AB/MCO)
E11a	15825	23-10	0730	Sun	353/35 Attention 78784 04802 30592 ... 05059 58329 15330 Attention, rpt msg, out	USB	(AB)
E11a	6397	23-10	1605	Sun	235/37 Attention 33683 91626 64128 ... 85228 95457 80378 Attention, rpt msg, out	USB	(AB)
E11a	13873	23-10	1650	Sun	924/35 Attention 93266 93801 36717 ... 24818 95762 64982 Attention, rpt msg, out	USB	(AB)
E11a	20286	24-10	1225	Mon	525/36 Attention 48434 40031 82348 ... 60602 86511 30389 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	13046	25-10	1345	Tue	918/38 Attention 10479 48365 04101 .. 27364 33220 41845 Attention, rpt msg, out	USB	(AB-AUT)
E11a	10641	25-10	1450	Tue	442/31 Attention 66496 12368 44071 ... 07215 60647 42495 Attention, rpt msg, out	USB	(AB-I/MPJ)
E11a	7850	26-10	0315	Wed	255/38 Attention 62153 98832 10815 ... 95665 20127 70524 Attention, rpt msg, out	USB	(AB)
E11a	10448	26-10	1625	Wed	974/40 Attention 98758 22034 92301 ... 42211 54537 37036 Attention, rpt msg, out	USB	(AB-GRC)
E11a	7850	27-10	0315	Thu	255/38 Attention 62153 98832 10815 ... 95665 20127 70524 Attention, rpt msg, out	USB	(AB)
E11a	10302	27-10	1300	Thu	585/34 Attention 93652 14716 94336 ... 76546 55735 87558 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	10641	27-10	1450	Thu	442/31 Attention 66496 12368 44071 ... 07215 60647 42495 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	15825	28-10	0730	Fri	352/00	USB	(AB)
E11a	10302	29-10	1300	Sat	585/34 Attention 93652 14716 94336 ... 76546 55735 87558 Attention, rpt msg, out	USB	(AB)
E11a	13046	29-10	1345	Sat	918/38 Attention 10479 48365 04101 ... 27364 33220 41845 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	10448	30-10	1625	Sun	974/40 Attention 98758 22034 92301 ... 42211 54537 37036 Attention, rpt msg, out	USB	(MPJ)
E11a	20286	31-10	1225	Mon	521/00	USB	(AB)
E17z	14260	6-10	0800	Thu	674 983 5 17099 94961 35836 65906 77233 983 5 00000	USB	(AB)
E17z	12930	6-10	0810	Thu	674 983 5 17099 94961 35836 65906 77233 983 5 00000	USB	(AB)
E17z	14260	13-10	0800	Thu	674 983 5 17099 94961 35836 65906 77233 983 5 00000	USB	(AB/ES)
E17z	12930	13-10	0810	Thu	674 983 5 17099 94961 35836 65906 77233 983 5 00000	USB	(AB)
E17z	14260	20-10	0800	Thu	674 938 5 07931 98755 84636 45752 64655 938 5 00000	USB	(AB/ES)
E17z	12930	20-10	0810	Thu	674 938 5 07931 98755 84636 45752 64655 938 5 00000	USB	(AB/ES)
E17z	14260	27-10	0800	Thu	674 938 5 07931 98755 84636 45752 64655 938 5 00000	USB	(AB)
E17z	12930	27-10	0810	Thu	674 938 5 07931 98755 84636 45752 64655 938 5 00000	USB	(AB)
E25	6140	11-10	1030	Tue	672 4022 6031 4967 8171 2474 7876 2781 5339. Beeps, Windows sounds, test counts	AM	(qsr711)

E25	6140	11-10	1030	Tue	672 (R) stops 169 (R) Message 3046 2702 8705 5591 2702 5705 3206 Rebeat (rpt msg) EOM EOT	AM	(qsr711/PW2)
E25	6140	12-10	0800	Wed	169 Message 3046 2702 8705 5591 2702 5705 3206 Rebeat 3046 2702 8705 5591 2702 5705 3206 End of message. End of transmission 169 169 169	AM	(qsr711/PW2)
E25	6140	12-10	0845	Wed	169 Message 3046 2702 8705 5591 2702 5705 3206 Rebeat 3046 2702 8705 5591 2702 5705 3206 End of message. End of transmission 169 169 169	AM	(qsr711/PW2)
E25	6140	12-10	1037	Wed	672 (R) Message 4022 6031 4967 8171 2474 7876 2781 5339 Rebeat (rpt msg) EOM EOT. Windows 7 shutdown sound	AM	(qsr711/PW2)
E25	6140	18-10	1030	Tue	672 4022 6031 4967 1897 4574 7876 2781 5339 rpt till the second last group. After a long break, it sends RBTx3 and message repeat correctly	AM	(qsr711)
E25	6140	19-10	0800	Wed	364 3 [à] Msgx2	AM	(qsr711)
E25	6140	19-10	0845	Wed	Transmission sent twice. Windows 7 logon / logoff sounds before the transmission. Msg: 169 3046 2702 8705 5591 2702 5705 3206	AM	(qsr711)
E25	6140	30-10	0730	Sun	250 msg msg msg 7345 4070 1360 0642 7435 4406 1360 rbt rbt rbt 7345 4070 1360 0642 7435 4406 1360 EOM EOT	AM	(PW2/qsr711)
E25	6140	31-10	0745	Mon	250 7345 4070 1360 0642 7435 4406 1360	AM	(qsr711)
F11	7371	3-10	0515	Mon	Polish Intel. Message. 41 groups	FSK 100/625	(AB)
F11	7371	3-10	0520	Mon	Polish Intel. Message. 41 groups	FSK 100/625	(AB)
F11	6906	3-10	0800	Mon	434/000	FSK 100/625	(AB)
F11	6906	3-10	0805	Mon	434/000	FSK 100/625	(AB)
F11	9339	3-10	0845	Mon	0353 88888 88888 07734 24942 49108 ... 11617 63784 37401 88888 88888 00039 00039	FSK 100/625	(AB)
F11	9339	3-10	0850	Mon	0353 88888 88888 07734 24942 49108 ... 11617 63784 37401 88888 88888 00039 00039	FSK 100/625	(AB)
F11	7371	4-10	0900	Tue	0554 00000	FSK 100/625	(AB)
F11	7371	4-10	0905	Tue	0554 00000	FSK 100/625	(AB)
F11	9079	4-10	1150	Tue	0325 88888 88888 66694 03972 32458 ... 64423 18597 90989 88888 88888 00040 00040	FSK 100/625	(AB)
F11	9079	4-10	1150	Tue	0325 88888 88888 66694 03972 32458 ... 64423 18597 90989 88888 88888 00040 00040	FSK 100/625	(AB)
F11	14972	4-10	1245	Tue	0132 00000	FSK 100/625	(AB)
F11	14972	4-10	1250	Tue	0132 00000	FSK 100/625	(AB)
F11	7863	5-10	0300	Wed	0231 00000	FSK 100/625	(AB)
F11	7863	5-10	0305	Wed	0231 00000	FSK 100/625	(AB)
F11	16005	5-10	0530	Wed	0453 00000	FSK 100/625	(AB)
F11	16005	5-10	0535	Wed	0453 00000	FSK 100/625	(AB)
F11	9339	5-10	0845	Wed	0353 88888 88888 07734 24942 49108 ... 11617 63784 37401 88888 88888 00039 00039	FSK 100/625	(AB)
F11	9339	5-10	0850	Wed	0353 88888 88888 07734 24942 49108 ... 11617 63784 37401 88888 88888 00039 00039	FSK 100/625	(AB)
F11	9079	5-10	1150	Wed	0325 88888 88888 66694 03972 32458 ... 64423 18597 90989 88888 88888 00040 00040	FSK 100/625	(AB)
F11	9079	5-10	1155	Wed	0325 88888 88888 66694 03972 32458 ... 64423 18597 90989 88888 88888 00040 00040	FSK 100/625	(AB)
F11	14972	5-10	1245	Wed	0132 00000	FSK 100/625	(AB)
F11	14972	5-10	1250	Wed	0132 00000	FSK 100/625	(AB)
F11	7863	6-10	0300	Thu	0231 00000	FSK 100/625	(AB)
F11	7863	6-10	0305	Thu	0231 00000	FSK 100/625	(AB)
F11	7371	6-10	0515	Thu	0446 88888 88888 19277 32437 74917 ... 10975 11085 82436 88888 88888 00041 00041	FSK 100/625	(AB)
F11	7371	6-10	0520	Thu	0446 88888 88888 19277 32437 74917 ... 10975 11085 82436 88888 88888 00041 00041	FSK 100/625	(AB)
F11	10728	6-10	0630	Thu	0574 88888 88888 81780 95255 10505 ... 00035 00035	FSK 100/625	(AB)
F11	10728	6-10	0635	Thu	0574 88888 88888 81780 95255 10505 ... 00035 00035	FSK 100/625	(AB)
F11	14753	6-10	0730	Thu	Polish Intel	FSK 100/625	(AB)
F11	14753	6-10	0735	Thu	Polish Intel	FSK 100/625	(AB)
F11	6906	6-10	0800	Thu	0434 00000	FSK 100/625	(AB)
F11	6906	6-10	0805	Thu	0434 00000	FSK 100/625	(AB)
F11	16005	7-10	0530	Fri	0453 00000	FSK 100/625	(AB)
F11	16005	7-10	0535	Fri	0453 00000	FSK 100/625	(AB)

F11	7371	7-10	0900	Fri	0554 00000	FSK 100/625	(AB)
F11	7371	7-10	0905	Fri	0554 00000	FSK 100/625	(AB)
F11	7371	10-10	0515	Mon	0446 00000	FSK 100/625	(AB)
F11	7371	10-10	0520	Mon	0446 00000	FSK 100/625	(AB)
F11	6906	10-10	0800	Mon	0434 00000	FSK 100/625	(AB)
F11	6906	10-10	0805	Mon	0434 00000	FSK 100/625	(AB)
F11	9339	10-10	0845	Mon	0353 00000	FSK 100/625	(AB)
F11	9339	10-10	0850	Mon	0353 00000	FSK 100/625	(AB)
F11	10728	11-10	0630	Tue	0574 00000	FSK 100/625	(AB)
F11	10728	11-10	0635	Tue	0574 00000	FSK 100/625	(AB)
F11	14753	11-10	0730	Tue	0433 00000	FSK 100/625	(AB)
F11	14753	11-10	0735	Tue	0433 00000	FSK 100/625	(AB)
F11	7371	11-10	0900	Tue	0554 00000	FSK 100/625	(AB)
F11	7371	11-10	0905	Tue	0554 00000	FSK 100/625	(AB)
F11	9079	11-10	1150	Tue	0325 00000	FSK 100/625	(AB)
F11	9079	11-10	1150	Tue	0325 00000	FSK 100/625	(AB)
F11	14972	11-10	1245	Tue	0132 88888 88888 20117 28555 33377 ... 22291 32505 75720 88888 88888 00035 00035	FSK 100/625	(AB)
F11	14972	11-10	1250	Tue	0132 88888 88888 20117 28555 33377 ... 22291 32505 75720 88888 88888 00035 00035	FSK 100/625	(AB)
F11	16005	12-10	0530	Wed	0453 88888 88888 74422 11226 52711 ... 07051 53209 55782 88888 88888 00042 00042	FSK 100/625	(AB)
F11	16005	12-10	0535	Wed	0453 88888 88888 74422 11226 52711 ... 07051 53209 55782 88888 88888 00042 00042	FSK 100/625	(AB)
F11	9339	12-10	0845	Wed	0353 00000	FSK 100/625	(AB)
F11	9339	12-10	0850	Wed	0353 00000	FSK 100/625	(AB)
F11	9079	12-10	1150	Wed	0325 00000	FSK 100/625	(AB)
F11	9079	12-10	1155	Wed	0325 00000	FSK 100/625	(AB)
F11	14972	12-10	1245	Wed	0132 88888 88888 20117 28555 33377 ... 22291 32505 75720 88888 88888 00035 00035	FSK 100/625	(AB)
F11	14972	12-10	1250	Wed	0132 88888 88888 20117 28555 33377 ... 22291 32505 75720 88888 88888 00035 00035	FSK 100/625	(AB)
F11	7371	13-10	0515	Thu	0446 00000	FSK 100/625	(AB)
F11	7371	13-10	0520	Thu	0446 00000	FSK 100/625	(AB)
F11	10728	13-10	0630	Thu	0574 00000	FSK 100/625	(AB)
F11	10728	13-10	0635	Thu	0574 00000	FSK 100/625	(AB)
F11	14753	13-10	0730	Thu	0433 00000	FSK 100/625	(AB)
F11	14753	13-10	0735	Thu	0433 00000	FSK 100/625	(AB)
F11	6906	13-10	0800	Thu	0434 00000	FSK 100/625	(AB)
F11	6906	13-10	0805	Thu	0434 00000	FSK 100/625	(AB)
F11	16005	14-10	0530	Fri	0453 88888 88888 74422 11226 52711 ... 07051 53209 55782 88888 88888 00042 00042	FSK 100/625	(AB)
F11	16005	14-10	0535	Fri	0453 88888 88888 74422 11226 52711 ... 07051 53209 55782 88888 88888 00042 00042	FSK 100/625	(AB)
F11	7371	14-10	0900	Fri	0554 00000	FSK 100/625	(AB)
F11	7371	14-10	0905	Fri	0554 00000	FSK 100/625	(AB)
F11	7371	17-10	0515	Mon	0446 00000	FSK 100/625	(AB)
F11	7371	17-10	0520	Mon	0446 00000	FSK 100/625	(AB)
F11	6906	17-10	0800	Mon	0434 88888 88888 93251 54412 79599 ... 45619 60011 03878 88888 88888 00040 00040	FSK 100/625	(AB)
F11	6906	17-10	0805	Mon	0434 88888 88888 93251 54412 79599 ... 45619 60011 03878 88888 88888 00040 00040	FSK 100/625	(AB)
F11	9339	17-10	0845	Mon	0353 00000	FSK 100/625	(AB)
F11	9339	17-10	0850	Mon	0353 00000	FSK 100/625	(AB)
F11	10728	18-10	0630	Tue	0574 00000	FSK 100/625	(AB)
F11	10728	18-10	0635	Tue	0574 00000	FSK 100/625	(AB)
F11	14753	18-10	0730	Tue	0433 00000	FSK 100/625	(AB)
F11	14753	18-10	0735	Tue	0433 00000	FSK 100/625	(AB)
F11	7371	18-10	0900	Tue	0554 00000	FSK 100/625	(AB)
F11	7371	18-10	0905	Tue	0554 00000	FSK 100/625	(AB)
F11	9079	18-10	1150	Tue	0325 00000	FSK 100/625	(AB)
F11	9079	18-10	1150	Tue	0325 00000	FSK 100/625	(AB)
F11	14972	18-10	1245	Tue	0132 00000	FSK 100/625	(AB)
F11	14972	18-10	1250	Tue	0132 00000	FSK 100/625	(AB)
F11	16005	19-10	0530	Wed	0453 00000	FSK 100/625	(AB)
F11	16005	19-10	0535	Wed	0453 00000	FSK 100/625	(AB)

F11	9339	19-10	0845	Wed	0353 00000	FSK 100/625	(AB)
F11	9339	19-10	0850	Wed	0353 00000	FSK 100/625	(AB)
F11	9079	19-10	1150	Wed	0325 00000	FSK 100/625	(AB)
F11	9079	19-10	1155	Wed	0325 00000	FSK 100/625	(AB)
F11	14972	19-10	1245	Wed	0132 00000	FSK 100/625	(AB)
F11	14972	19-10	1250	Wed	0132 0000	FSK 100/625	(AB)
F11	7371	20-10	0515	Thu	0446 00000	FSK 100/625	(AB)
F11	7371	20-10	0520	Thu	0446 00000	FSK 100/625	(AB)
F11	10728	20-10	0630	Thu	0574 00000	FSK 100/625	(AB)
F11	10728	20-10	0635	Thu	0574 00000	FSK 100/625	(AB)
F11	14753	20-10	0730	Thu	0433 00000	FSK 100/625	(AB)
F11	14753	20-10	0735	Thu	0433 00000	FSK 100/625	(AB)
F11	6906	20-10	0800	Thu	0434 88888 88888 93251 54412 79599 ... 45619 60011 03878 88888 88888 00040 00040	FSK 100/625	(AB)
F11	6906	20-10	0805	Thu	0434 88888 88888 93251 54412 79599 ... 45619 60011 03878 88888 88888 00040 00040	FSK 100/625	(AB)
F11	16005	21-10	0530	Fri	0453 00000	FSK 100/625	(AB)
F11	16005	21-10	0535	Fri	0453 00000	FSK 100/625	(AB)
F11	7371	21-10	0900	Fri	0554 00000	FSK 100/625	(AB)
F11	7371	21-10	0905	Fri	0554 00000	FSK 100/625	(AB)
F11	7371	24-10	0515	Mon	0446 00000	FSK 100/625	(AB)
F11	7371	24-10	0520	Mon	0446 00000	FSK 100/625	(AB)
F11	6906	24-10	0800	Mon	0434 00000	FSK 100/625	(AB)
F11	6906	24-10	0805	Mon	0434 00000	FSK 100/625	(AB)
F11	10728	25-10	0630	Tue	0574 00000	FSK 100/625	(AB)
F11	10728	25-10	0635	Tue	0574 00000	FSK 100/625	(AB)
F11	14753	25-10	0730	Tue	0433 00000	FSK 100/625	(AB)
F11	14753	25-10	0735	Tue	0433 00000	FSK 100/625	(AB)
F11	7371	25-10	0900	Tue	0554 88888 88888 16434 21754 61103 ... 87243 63791 99843 88888 88888 00040 00040	FSK 100/625	(AB)
F11	7371	25-10	0905	Tue	0554 88888 88888 16434 21754 61103 ... 87243 63791 99843 88888 88888 00040 00040	FSK 100/625	(AB)
F11	9079	25-10	1150	Tue	0325 00000	FSK 100/625	(AB)
F11	9079	25-10	1150	Tue	0325 00000	FSK 100/625	(AB)
F11	14972	25-10	1245	Tue	0132 00000	FSK 100/625	(AB)
F11	14972	25-10	1250	Tue	0132 00000	FSK 100/625	(AB)
F11	7863	26-10	0300	Wed	0231 88888 88888 62153 98832 10815 ... 95665 20127 70524 88888 88888 00042 00042	FSK 100/625	(AB)
F11	7863	26-10	0305	Wed	0231 88888 88888 62153 98832 10815 ... 95665 20127 70524 88888 88888 00042 00042	FSK 100/625	(AB)
F11	16005	26-10	0530	Wed	Polish Intel	FSK 100/625	(AB)
F11	16005	26-10	0535	Wed	Polish Intel	FSK 100/625	(AB)
F11	9339	26-10	0845	Wed	0353 00000	FSK 100/625	(AB)
F11	9339	26-10	0850	Wed	0353 00000	FSK 100/625	(AB)
F11	9079	26-10	1150	Wed	0325 00000	FSK 100/625	(AB)
F11	9079	26-10	1155	Wed	0325 00000	FSK 100/625	(AB)
F11	14972	26-10	1245	Wed	0132 00000	FSK 100/625	(AB)
F11	14972	26-10	1250	Wed	0132 0000	FSK 100/625	(AB)
F11	7863	27-10	0300	Thu	0231 88888 88888 62153 98832 10815 ... 95665 20127 70524 88888 88888 00042 00042	FSK 100/625	(AB)
F11	7863	27-10	0305	Thu	0231 88888 88888 62153 98832 10815 ... 95665 20127 70524 88888 88888 00042 00042	FSK 100/625	(AB)
F11	7371	27-10	0515	Thu	0446 00000	FSK 100/625	(AB)
F11	7371	27-10	0520	Thu	0446 00000	FSK 100/625	(AB)
F11	10728	27-10	0630	Thu	0574 00000	FSK 100/625	(AB)
F11	10728	27-10	0635	Thu	0574 00000	FSK 100/625	(AB)
F11	14753	27-10	0730	Thu	0433 00000	FSK 100/625	(AB)
F11	14753	27-10	0735	Thu	0433 00000	FSK 100/625	(AB)
F11	6906	27-10	0800	Thu	0434 00000	FSK 100/625	(AB)
F11	6906	27-10	0805	Thu	0434 00000	FSK 100/625	(AB)
F11	16005	28-10	0530	Fri	0453 00000	FSK 100/625	(AB-RUS)
F11	16005	28-10	0535	Fri	0453 00000	FSK 100/625	(AB-RUS)
F11	7371	28-10	0900	Fri	0554 88888 88888 16434 21754 61103 ... 87243 63791 99843 88888 88888 00040 00040	FSK 100/625	(AB)
F11	7371	28-10	0905	Fri	0554 88888 88888 16434 21754 61103 ... 87243 63791 99843 88888 88888 00040 00040	FSK 100/625	(AB)

F11	7371	31-10	0515	Mon	0446 00000	FSK 100/625	(AB)
F11	7371	31-10	0520	Mon	0446 00000	FSK 100/625	(AB)
F11	6906	31-10	0800	Mon	0434 00000	FSK 100/625	(AB)
F11	6906	31-10	0805	Mon	0434 00000	FSK 100/625	(AB)
G06	6810	3-10	0800	Mon	329 329 329 00000	USB	(AB/ES/HFD)
G06	4767	3-10	1641	Mon	111 111 111 00000	USB	(AB)
G06	4767	3-10	1645	Mon	111 111 111 00000	USB	(AB)
G06	4767	3-10	1649	Mon	111 111 111 00000	USB	(AB)
G06	4767	3-10	1658	Mon	574 574 574 00000 (2 mins early)	USB	(AB/MPJ)
G06	4767	3-10	1705	Mon	111 111 111 00000	USB	(AB)
G06	4953	3-10	1740	Mon	111 111 111 00000	USB	(AB)
G06	4953	3-10	1746	Mon	111 111 111 00000	USB	(AB)
G06	4853	3-10	1758	Mon	574 574 574 00000 (2 mins early)	USB	(AB/MPJ)
G06	5192	5-10	1158	Wed	574 574 574 00000	USB	(ES)
G06	5443	5-10	1258	Wed	574 674 574 00000	USB	(ES)
G06	5197	7-10	2130	Fri	G06 sent instead of E06. 634 569 63 14259 22676 32782 ... 32333 43433 54545 569 63 00000	USB	(AB)
G06	4767	10-10	1618	Mon	111 111 111 00000 111 111 111 00000	USB	(AB)
G06	4767	10-10	1622	Mon	111 111 111 000	USB	(AB)
G06	4767	10-10	1635	Mon	11	USB	(AB)
G06	4767	10-10	1700	Mon	574 574 574 00000	USB	(AB/MPJ)
G06	4767	10-10	1709	Mon	111 111 11	USB	(AB)
G06	4953	10-10	1715	Mon	111 00000	USB	(AB)
G06	4953	10-10	1716	Mon	111 111 111	USB	(AB)
G06	4953	10-10	1721	Mon	1	USB	(AB)
G06	4953	10-10	1724	Mon	000 111 111 111 00000 1	USB	(AB)
G06	4953	10-10	1800	Mon	574 574 574 00000	USB	(AB/MPJ)
G06	5186	12-10	1200	Wed	574 474 574 00000	USB	(AB/ES)
G06	5436	12-10	1300	Wed	574 474 574 00000	USB	(AB/ES)
G06	5934	13-10	1830	Thu	579 391 60 56327 21940 73218 ... 47329 94872 47426 391 60 00000	USB	(AB)
G06	5442	14-10	1930	Fri	947 317 90 37839 35787 98273 ... 64848 85748 84784 317 90 00000	USB	(AB)
G06	6810	17-10	0800	Mon	329 329 329 0000	USB	(AB)
G06	4598	20-10	1300	Thu	329 329 329 00000	USB	(AB-RUS)
G06	5442	28-10	1930	Fri	947 149 52 12265 12965 47839 ... 53234 25124 95735 149 52 00000. Windows sound	USB	(AB)
HM01	11462	1-10	0510	Sat	i.p. 14106 28703 37385 12732 07646 80185	AM/RDFT	(AB)
HM01	11435	1-10	1558	Sat	14107 28704 37386 12733 07647 80186	AM/RDFT	(RR2)
HM01	16180	1-10	2100	Sat	14107 38704 37386 12733 07647 80186	AM/RDFT	(HFD)
HM01	17480	1-10	2157	Sat	14107 38704 37386 12733 07647 80186	AM/RDFT	(RL)
HM01	10860	2-10	0547	Sun	i.p. 14107 28704 37386 12733 07647 80186	AM/RDFT	(AB)
HM01	9330	2-10	0731	Sun	i.p. 14107 28704 37386 12733 07647 80186. Distorted sound	AM/RDFT	(AB)
HM01	9065	2-10	0756	Sun	14107 28704 37386 12733 07647 80186. Distorted sound	AM/RDFT	(AB)
HM01	11435	2-10	1552	Sun	Yesterday's groups into new groups at 1558z: 36461 28705 37387 12734 07648 80187	AM/RDFT	(RR2)
HM01	10715	2-10	2200	Sun	36461 28705 37387 12734 07648 80187	AM/RDFT	(Dan)
HM01	11435	3-10	1557	Mon	36461 28706 37388 12735 07649 80188	AM/RDFT	(RR2)
HM01	10715	3-10	2211	Mon	36461 28706 37388 12735 07649 80188	AM/RDFT	(DSch)
HM01	11435	4-10	1557	Tue	36462 28707 37389 12736 33841 80189	AM/RDFT	(RR2)
HM01	11635	4-10	1829	Tue	36462 28707 37389 12736 33841 80189	AM/RDFT	(DSch)
HM01	10860	5-10	0528	Wed	i.p. 36462 28707 37389 12736 33841 80189	AM/RDFT	(AB)
HM01	11435	5-10	1627	Wed	36463 28708 28581 12737 33841 57001	AM/RDFT	(RR2)
HM01	10715	5-10	2200	Wed	36463 68708 28781 12737 33841 57001	AM/RDFT	(Dan)
HM01	11435	6-10	1553	Thu	Yesterday's groups till 1558z, then: 36464 45461 28581 12738 33842 57001	AM/RDFT	(RR2)
HM01	11435	6-10	1602	Thu	36464 45461 28581 12738 33842 57001	AM/RDFT	(DSch)
HM01	10860	7-10	0506	Fri	36464 45461 28581 12738 33842 57001	AM/RDFT	(AB)
HM01	10345	7-10	0557	Fri	36464 45461 28581 12738 33842 57001	AM/RDFT	(AB)
HM01	11435	7-10	1557	Fri	36465 45461 28582 23551 33843 57002	AM/RDFT	(RR2)
HM01	11435	7-10	1604	Fri	36465 45461 28582 23551 33843 57002	AM/RDFT	(DSch)
HM01	10860	7-10	9545	Fri	36464 45461 28581 12738 33842 57001 Off at 0550 UTC.	AM/RDFT	(EW)
HM01	11462	8-10	0501	Sat	36465 45461 28582 23551 33843 57002	AM/RDFT	(AB)

HM01	11435	8-10	1551	Sat	yesterday's groups into new ones at 1557z: 36466 45462 28583 23551 33844 57003	AM/RDFT	(RR2)
HM01	11435	9-10	1557	Sun	36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11435	10-10	1558	Mon	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11435	10-10	1608	Mon	36467 45463 28584 23552 33845 57004	AM/RDFT	(DSch)
HM01	11530	10-10	1700	Mon	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11635	10-10	1756	Mon	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004. Interrupted with dead air till 1803z then music (probably Radio Habana) then numbers again	AM/RDFT	(RR2)
HM01	11635	10-10	1830	Mon	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	10715	10-10	2200	Mon	36467 45463 28784 23552 33845 57004	AM/RDFT	(Dan)
HM01	10715	10-10	2202	Mon	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11435	11-10	1600	Tue	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11435	11-10	1600	Tue	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11530	11-10	1700	Tue	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11530	11-10	1700	Tue	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11635	11-10	1800	Tue	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11635	11-10	1800	Tue	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11635	11-10	1835	Tue	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(DSch)
HM01	16180	11-10	2100	Tue	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(DSch)
HM01	11530	12-10	1705	Wed	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(DSch)
HM01	11435	13-10	1600	Thu	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11530	13-10	1700	Thu	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11635	13-10	1800	Thu	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11635	13-10	1832	Thu	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(DSch)
HM01	16180	13-10	2057	Thu	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(CtY)
HM01	17480	13-10	2200	Thu	36467 45463 28584 23552 33845 57004	AM/RDFT	(Dan)
HM01	11435	14-10	1600	Fri	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11435	14-10	1601	Fri	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(DSch)
HM01	11530	14-10	1700	Fri	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11635	14-10	1800	Fri	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(DSch)
HM01	11635	14-10	1800	Fri	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	10715	14-10	2235	Fri	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RL)
HM01	11435	15-10	1559	Sat	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(DSch)
HM01	11435	15-10	1600	Sat	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11530	15-10	1700	Sat	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11635	15-10	1800	Sat	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	17480	15-10	2200	Sat	36467 45463 28584 23552 33845 57004	AM/RDFT	(Dan)

HM01	9065	16-10	0806	Sun	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	USB	(AB)
HM01	11435	16-10	1600	Sun	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11530	16-10	1700	Sun	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	11635	16-10	1800	Sun	sending 9 Oct groups: 36467 45463 28584 23552 33845 57004	AM/RDFT	(RR2)
HM01	10715	16-10	2200	Sun	35471 73726 07381 62241 01611 43072	AM/RDFT	(Dan)
HM01	11435	17-10	1600	Mon	73727 07381 62242 01611 43073 35472	AM/RDFT	(RR2)
HM01	11530	17-10	1658	Mon	73727 07381 62242 01611 43073 35472	AM/RDFT	(RR2)
HM01	11635	17-10	2057	Mon	73727 07381 62242 01611 43073 35472	AM/RDFT	(RR2)
HM01	11435	18-10	1601	Tue	52001 07382 62243 01612 43074 35473	AM/RDFT	(RR2)
HM01	11435	18-10	1645	Tue	52001 07382 62243 01612 43074 35473	AM/RDFT	(DSch)
HM01	11435	18-10	1700	Tue	Starts on this freq then off and comes up on 11530 kHz	AM/RDFT	(DSch)
HM01	11530	18-10	1700	Tue	52001 07382 62243 01612 43074 35473	AM/RDFT	(DSch)
HM01	11435	19-10	1557	Wed	Abruptly signed on with RHC music then Windows sound into middle of 3rd group. 52001 07383 62244 01613 43075 35474	AM/RDFT	(RR2)
HM01	11435	20-10	1557	Thu	52002 07384 62245 01614 43076 35475	AM/RDFT	(RR2)
HM01	17480	20-10	2241	Thu	52002 07384 62245 01614 43076 35475	AM/RDFT	(DSch)
HM01	11435	21-10	1606	Fri	52003 07385 62246 01615 43077 35476	AM/RDFT	(RR2)
HM01	11635	21-10	1842	Fri	52003 07385 62246 01615 43077 35476	AM/RDFT	(DSch)
HM01	10715	21-10	2200	Fri	35476 52003 07385 62246 01615 43077	AM/RDFT	(Dan)
HM01	11435	22-10	1557	Sat	52004 07386 62247 01616 43078 35477	AM/RDFT	(RR2)
HM01	11530	22-10	1713	Sat	52004 07386 62247 01616 43078 35477	AM/RDFT	(DSch)
HM01	10860	23-10	0457	Sun	52004 07386 62247 01616 43078 35477	AM/RDFT	(AB)
HM01	10345	23-10	0643	Sun	i.p. 52004 07386 62247 01616 43078 35477	AM/RDFT	(AB)
HM01	9330	23-10	0757	Sun	52004 07386 62247 01616 43078 35477	AM/RDFT	(AB)
HM01	11435	23-10	1601	Sun	52005 07387 62248 01617 32101 35478	AM/RDFT	(RR2)
HM01	11435	23-10	1644	Sun	52005 07387 62248 01617 32101 35478	AM/RDFT	(DSch)
HM01	10860	24-10	0510	Mon	i.p. 52005 07387 62248 01617 32101 35478	AM/RDFT	(AB)
HM01	11435	24-10	1603	Mon	52006 07388 62249 01618 32101 35479	AM/RDFT	(DSch)
HM01	11462	25-10	0502	Tue	52006 07388 62249 01618 32101 35479	AM/RDFT	(AB)
HM01	11435	25-10	1549	Tue	52007 14411 70131 01619 32102 64111	AM/RDFT	(RR2)
HM01	11530	25-10	1739	Tue	52007 14411 70131 01619 32102 64111	AM/RDFT	(DSch)
HM01	11435	26-10	1557	Wed	52008 14411 70131 41841 32103 64111	AM/RDFT	(RR2)
HM01	11435	27-10	1557	Thu	86551 14412 70132 41841 32104 64112	AM/RDFT	(RR2)
HM01	11530	27-10	1659	Thu	86551 14412 70132 41841 32104 64112	AM/RDFT	(DSch)
HM01	17480	27-10	2200	Thu	86551 14412 70132 41841 32104 64112	AM/RDFT	(Dan)
HM01	11435	28-10	1630	Fri	86551 14413 70133 41842 32105 64113	AM/RDFT	(RR2)
HM01	10715	28-10	2200	Fri	86551 14413 70133 41842 32105 64113	AM/RDFT	(Dan)
HM01	17480	29-10	2200	Sat	86552 14414 70134 41843 32106 64114	AM/RDFT	(Dan)
HM01	17480	29-10	2231	Sat	86552 14414 70134 41843 32106 64114	AM/RDFT	(DSch)
HM01	11435	30-10	1557	Sun	86552 14414 70134 41843 32106 64114	AM/RDFT	(RR2)
HM01	11435	30-10	1557	Sun	86553 14415 70135 41844 32107 64115	AM/RDFT	(RR2)
HM01	11635	30-10	1804	Sun	86553 14415 70135 41844 32107 64115	AM/RDFT	(DSch)
HM01	9065	31-10	0838	Mon	i.p. 86552 14414 70134 41843 32106 64114	AM/RDFT	(EW)
HM01	11435	31-10	1554	Mon	Yesterday's groups followed by new ones at 1557 UTC: 86554 14416 70136 41845 27161 64116	AM/RDFT	(RR2)
HM01	11635	31-10	1808	Mon	86554 14416 70136 41845 27161 64116	AM/RDFT	(DSch)
HM01	10715	31-10	2200	Mon	86554 14416 70136 41845 27161 64116	AM/RDFT	(Dan)
M01	6260	1-10	1500	Sat	463 718 30 = = 52676 05893 75831 28932 11545 ... 91342 41581 35581 82466 04919 = = 718 30 000	CW	(MPJ/HFD)
M01	6510	2-10	0700	Sun	Hand sent. Some random keying. Msg starts at 0705z: 463 117 30 = 40112 46069 79337 ... 67974 36535 46355 = 117 30 000	CW	(AB)
M01	5475	4-10	1800	Tue	463 189 30 = = 66045 31599 65474 877...	CW	(MPJ)
M01	5475	6-10	1807	Thu	i.p. 29547 38948 04899 05141 74979 ... 01856 52867 76702 96558 82725 = = 239 239 30 30 000	CW	(MPJ)
M01	6510	9-10	0700	Sun	463 707 34 40194	CW	(HFD)
M01	5475	11-10	1800	Tue	463 409 30 = = 15123 19997 51954 32115 98454 ... 64650 49610 56596 19610 12141 = = 409 30 000. No spaces. Changed to groups once in the middle.	CW	(MPJ)
M01	5475	13-10	1800	Thu	463 143 30 = = 87964 02546 03652 01569 02547 ... 22698 77566 02154 45210 30653 = = 143 30 000	CW	(MPJ)

M01	5475	18-10	1800	Tue	463 021 30 == 66530 (55630) 28940 56006 06280 55677 ... 54729 50172 121112 (!) 54532 63640 == 021 30 000	CW	(MPJ)
M01	5475	27-10	1800	Thu	463 391 30 == 25202 70233 91949 78199 89100 ... 98673 88411 93603 12923 96299 == 391 30 000. (Many errors)	CW	(MPJ)
M01	6260	29-10	1500	Sat	463 708 30 == 77081 29153 91546 17645 75222 ... 54763 31629 45474 20118 68492 == 708 30 000	CW	(MPJ)
M01a	10233	4-10	0625	Tue	354 354 354 773 76. 354 354 354 789 36	CW	(F5JBR)
M01a	5191	7-10	0845	Fri	739 739 739 305 22 333 396 22 739 739 739 111 999 182 10 = 15740 96157 40627 ... = 182 10 and 739 739 739 111 000	MCW	(F5JBR)
M01a	5323	12-10	0838	Wed	307 307 307 363 30 111	CW	(F5JBR)
M01b	3535	3-10	1810	Mon	463 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //4590 kHz	MCW	(MPJ)
M01b	4590	3-10	1810	Mon	463 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //3535 kHz	MCW	(MPJ)
M01b	3645	3-10	1915	Mon	771 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //4455 kHz	MCW	(MPJ)
M01b	4455	3-10	1915	Mon	771 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //3645 kHz	MCW	(MPJ)
M01b	3510	6-10	1832	Thu	201 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //4605 kHz	MCW	(MPJ)
M01b	4605	6-10	1832	Thu	201 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //3510 kHz	MCW	(MPJ)
M01b	3715	6-10	1942	Thu	477 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //4570 kHz	MCW	(MPJ)
M01b	4570	6-10	1942	Thu	477 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //3715 kHz	MCW	(MPJ)
M01b	3625	7-10	1902	Fri	153 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //4940 kHz	MCW	(MPJ)
M01b	4940	7-10	1902	Fri	153 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //3625 kHz	MCW	(MPJ)
M01b	3645	10-10	1915	Mon	771 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //4455 kHz	MCW	(MPJ)
M01b	4455	10-10	1915	Mon	771 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //3645 kHz	MCW	(MPJ)
M01b	4570	13-10	1942	Thu	477 148 32 == 5_040 81315 26459 89872 23666 ... 44612 75819 41449 67030 35768 == 148 32 000 //3715 kHz	MCW	(MPJ)
M01b	3535	17-10	1810	Mon	420 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //4590 kHz	MCW	(MPJ)
M01b	4590	17-10	1810	Mon	420 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //3535 kHz	MCW	(MPJ)
M01b	3645	17-10	1915	Mon	771 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //4455 kHz	MCW	(MPJ)
M01b	4455	17-10	1915	Mon	771 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 148 32 000 //3645 kHz	MCW	(MPJ)
M01b	3645	24-10	1915	Mon	771 148 32 == 56040 81315 26459 89872 23066 (?) ... 35612 75819 41449 67030 35868 == 148 32 000 //4455 kHz	MCW	(MPJ)

M01b	4455	24-10	1915	Mon	771 148 32 == 56040 81315 26459 89872 23066 (?) ... 35612 75819 41449 67030 35868 == 148 32 000 //3645 kHz	MCW	(MPJ)
M01b	3510	27-10	1832	Thu	201 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 143 32 000 //4605 kHz	MCW	(MPJ)
M01b	4605	27-10	1832	Thu	201 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 143 32 000 //3510 kHz	MCW	(MPJ)
M01b	3715	27-10	1942	Thu	477 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 143 32 000 //4570 kHz	MCW	(MPJ)
M01b	4570	27-10	1942	Thu	477 148 32 == 56040 81315 26459 89872 23666 ... 35612 75819 41449 67030 35768 == 143 32 000 //3715 kHz	MCW	(MPJ)
M01b	3645	31-10	2015	Mon	771 147 32 == 56050 xxx95 26459 87872 ... //4455 kHz	MCW	(MPJ)
M01b	4455	31-10	2015	Mon	771 147 32 == 56050 xxx95 26459 87872 ... //3645 kHz	MCW	(MPJ)
M08a	7554	11-10	2002	Tue	TWNDA AIWRN NAGGN	CW	(DSch)
M08a	8136	11-10	2259	Tue	DGI morse transmission	CW	(SHA)
M08a	8097	12-10	1358	Wed	Message	CW	(Sha)
M08a	8097	13-10	1415	Thu	Message i.p.	CW	(Sha)
M08a	7554	13-10	2000	Thu	AUGAA NINDN DARRA	CW	(DSch)
M08a	8009	31-10	2307	Mon	Usual callup and message	CW	(Sha)
M12	6832	1-10	0500	Sat	892 892 892 000	CW	(AB/ES/HFD)
M12	7932	1-10	0520	Sat	892 892 892 000	CW	(AB/ES/HFD)
M12	12214	1-10	1310	Sat	282 282 282 000	CW	(HFD)
M12	10814	1-10	1320	Sat	282 282 282 000	CW	(HFD)
M12	10269	1-10	2110	Sat	229 1 4408 101 05838 55122 84462 38921 000 000	CW	(ES/HFD)
M12	9269	1-10	2130	Sat	229 1 4408 101 05838 55122 84462 38921 000 000	CW	(ES/HFD)
M12	7969	1-10	2150	Sat	229 1 4408 101 05838 55122 84462 38921 000 000	CW	(HFD)
M12	5317	3-10	0450	Mon	638 638 638 000	CW	(AB/ES)
M12	9176	3-10	1800	Mon	257 1 4386 142 02468 53617 41358 34297 63590 ... 88280 71031 95124 75100 36091 000 000	CW	(MPJ)
M12	8047	3-10	1810	Mon	463 1 5931 113 56762 95947 14614 21132 07492 ... 52578 88366 52900 48630 81955 000 000	CW	(MPJ)
M12	7931	3-10	1820	Mon	257 1 4386 142 02468 53617 41358 34297 63590 ... 88280 71031 95124 75100 36091 000 000	CW	(MPJ)
M12	6802	3-10	1830	Mon	463 1 5931 113 56762 95947 14614 21132 07492 ... 52578 88366 52900 48630 81955 000 000	CW	(MPJ)
M12	6904	3-10	1840	Mon	257 1 4386 142 02468 53617 41358 34297 63590 ... 88280 71031 95124 75100 36091 000 000	CW	(MPJ)
M12	5788	3-10	1850	Mon	463 1 5931 113 56762 95947 14614 21132 07492 ... 52578 88366 52900 48630 81955 000 000	CW	(MPJ)
M12	8053	4-10	0800	Tue	816 1 3477 58 15782 50439 67241 ... 71277 71079 13510 000 000	CW	(AB/ES)
M12	9178	4-10	0820	Tue	816 1 3477 58 15782 50439 67241 ... 71277 71079 13510 000 000	CW	(AB/ES)
M12	10287	4-10	0840	Tue	816 1 3477 58 15782 50439 67241 ... 71277 71079 13510 000 000	CW	(AB/ES)
M12	6784	5-10	0630	Wed	761 761 761 000	CW	(HFD)
M12	7684	5-10	0650	Wed	761761 761 000	CW	(HFD)
M12	16354	5-10	0710	Wed	324 324 324 000	CW	(ES)
M12	18254	5-10	0730	Wed	324 324 324 000	CW	(ES)
M12	9176	5-10	1800	Wed	257 1 2824 136 16033 53273 15496 10093 67664 ... 81897 65664 84982 11069 46827 000 000	CW	(MPJ)
M12	7931	5-10	1820	Wed	257 1 2824 136 16033 53273 15496 10093 67664 ... 81897 65664 84982 11069 46827 000 000	CW	(MPJ)
M12	6904	5-10	1840	Wed	257 1 2824 136 16033 53273 15496 10093 67664 ... 81897 65664 84982 11069 46827 000 000	CW	(MPJ)
M12	8047	5-10	1900	Wed	463 1 1307 147 49564 17120 20474 63339 35568 ... 55450 23500 58653 56072 59666 000 000	CW	(MPJ)

M12	6802	5-10	1920	Wed	463 1 1307 147 49564 17120 20474 63339 35568 ... 55450 23500 58653 56072 59666 000 000	CW	(MPJ)
M12	5788	5-10	1940	Wed	463 1 1307 147 49564 17120 20474 63339 35568 ... 55450 23500 58653 56072 59666 000 000	CW	(MPJ)
M12	6784	6-10	0630	Thu	761 761 761 000	CW	(ES)
M12	7684	6-10	0650	Thu	761 761 761 000	CW	(ES)
M12	12214	6-10	1310	Thu	282 1 1141 175 43400 39190 76546 ... 00865 74296 52467 000 000	CW	(AB/ES/MPJ)
M12	10184	6-10	1330	Thu	282 1 1141 175 43400 39190 76546 ... 00865 74296 52467 000 000	CW	(AB/ES/MPJ)
M12	9214	6-10	1350	Thu	282 1 1141 175 43400 39190 76546 ... 00865 74296 52467 000 000	CW	(AB/ES/MPJ)
M12	11435	6-10	1800	Thu	938 1 5253 149 18905 62872 45398 00428 22402 ... 87346 27300 90157 77728 93029 000 000	CW	(MPJ)
M12	10598	6-10	1820	Thu	938 1 5253 149 18905 62872 45398 00428 22402 ... 87346 27300 90157 77728 93029 000 000	CW	(MPJ)
M12	9327	6-10	1840	Thu	938 1 5253 149 18905 62872 45398 00428 22402 ... 87346 27300 90157 77728 93029 000 000	CW	(MPJ)
M12	9176	6-10	1900	Thu	257 1 2033 126 12923 56016 07987 37210 45971 ... 08879 51168 86709 72340 50331 000 000	CW	(MPJ)
M12	7931	6-10	1920	Thu	257 1 2033 126 12923 56016 07987 37210 45971 ... 08879 51168 86709 72340 50331 000 000	CW	(MPJ)
M12	6904	6-10	1940	Thu	257 1 2033 126 12923 56016 07987 37210 45971 ... 08879 51168 86709 72340 50331 000 000	CW	(MPJ)
M12	8047	6-10	2000	Thu	463 1 3578 95 29415 70327 49696 97762 61398 ...77386 20184 71823 21418 38173 000 000	CW	(MPJ)
M12	10343	7-10	1200	Fri	124 1 7925 65 07985 99780 06907 06206 000 000	CW	(ES)
M12	9264	7-10	1220	Fri	124 1 7925 65 07985 99780 06907 06206 000 000	CW	(ES/MPJ)
M12	8116	7-10	1240	Fri	124 1 7925 65 07985 99780 06907 06206 000 000	CW	(ES)
M12	20036	7-10	1500	Fri	064 064 064 000	CW	(MPJ)
M12	6832	8-10	0500	Sat	892 892 892 000	CW	(AB/ES)
M12	7932	8-10	0520	Sat	892 892 892 000	CW	(AB/ES)
M12	10269	8-10	2110	Sat	229 229 229 000	CW	(ES)
M12	9269	8-10	2130	Sat	229 229 229 000	CW	(ES)
M12	4617	10-10	0430	Mon	638 638 638 000	CW	(ES/HFD)
M12	5317	10-10	0450	Mon	638 638 638 000	CW	(ES/F5JBR/HFD)
M12	9176	10-10	1800	Mon	257 1 2319 148 77813 00994 09889 98811 81398 ... 78700 84930 47563 17901 55939 000 000	CW	(MPJ)
M12	8047	10-10	1810	Mon	463 1 5568 112 41068 40860 17416 28626 02376 ... 22588 52561 62674 41024 01344 000 000	CW	(MPJ)
M12	7931	10-10	1820	Mon	257 1 2319 148 77813 00994 09889 98811 81398 ... 78700 84930 47563 17901 55939 000 000	CW	(MPJ)
M12	6802	10-10	1830	Mon	463 1 5568 112 41068 40860 17416 28626 02376 ... 22588 52561 62674 41024 01344 000 000	CW	(MPJ)
M12	6904	10-10	1840	Mon	257 1 2319 148 77813 00994 09889 98811 81398 ... 78700 84930 47563 17901 55939 000 000	CW	(MPJ)
M12	5788	10-10	1850	Mon	463 1 5568 112 41068 40860 17416 28626 02376 ... 22588 52561 62674 41024 01344 000 000	CW	(MPJ)
M12	8053	11-10	0800	Tue	816 1 1288 63 34201 30605 41473 65830 000 000	CW	(ES)
M12	9178	11-10	0820	Tue	816 1 1288 63 34201 30605 41473 65830 000 000	CW	(ES)
M12	10287	11-10	0840	Tue	816 1 1288 63 34201 30605 41473 65830 000 000	CW	(ES)
M12	9176	11-10	2000	Tue	257 1 8048 108 28603 35570 28349 44379 94740 ... 81886 4657 44075 18034 48153 000 000	CW	(MPJ)
M12	16354	12-10	0710	Wed	324 324 324 000	CW	(ES)
M12	18254	12-10	0730	Wed	324 324 324 000	CW	(ES)
M12	18639	12-10	1400	Wed	648 1 9864 67 09017 19100 91825 57074 74119 ... 67063 89203 90570 74261 03596 000 000	CW	(MPJ/ES)
M12	17439	12-10	1420	Wed	648 1 9864 67 09017 19100 91825 57074 74119 ... 67063 89203 90570 74261 03596 000 000	CW	(MPJ/ES)
M12	15839	12-10	1440	Wed	648 1 9864 67 09017 19100 91825 57074 74119 ... 67063 89203 90570 74261 03596 000 000	CW	(MPJ)
M12	9176	12-10	1800	Wed	257 1 1564 145 42485 07574 23062 23870 21764 ... 11072 55131 06342 77879 83335 000 000	CW	(MPJ)
M12	7931	12-10	1820	Wed	257 1 1564 145 42485 07574 23062 23870 21764 ... 11072 55131 06342 77879 83335 000 000	CW	(MPJ)

M12	6904	12-10	1840	Wed	257 1 1564 145 42485 07574 23062 23870 21764 ... 11072 55131 06342 77879 83335 000 000	CW	(MPJ/ES)
M12	8047	12-10	1900	Wed	463 1 6208 147 75190 50824 99500 42539 75365 ... 83861 74940 57282 50576 55964 000 000	CW	(MPJ)
M12	6802	12-10	1920	Wed	463 1 6208 147 75190 50824 99500 42539 75365 ... 83861 74940 57282 50576 55964 000 000	CW	(MPJ)
M12	5788	12-10	1940	Wed	463 1 6208 147 75190 50824 99500 42539 75365 ... 83861 74940 57282 50576 55964 000 000	CW	(MPJ)
M12	6784	13-10	0630	Thu	761 761 761 000	CW	(ES)
M12	7684	13-10	0650	Thu	761 761 761 000	CW	(ES)
M12	12214	13-10	1310	Thu	282 282 282 000	CW	(AB/MPJ)
M12	10814	13-10	1330	Thu	282 282 282 000	CW	(AB/MPJ)
M12	9327	13-10	1800	Thu	938 1 8502 146 __ 451 24920 _ 7617 93080 1914_ ... 18478 _6881 58889 46925 27710 000 000	CW	(MPJ)
M12	9176	13-10	1900	Thu	257 1 2123 115 19001 19052 62972 91675 05203 ... 99105 91306 51179 72134 69560 000 000	CW	(MPJ)
M12	7931	13-10	1920	Thu	257 1 2123 115 19001 19052 62972 91675 05203 ... 99105 91306 51179 72134 69560 000 000	CW	(MPJ)
M12	6904	13-10	1940	Thu	257 1 2123 115 19001 19052 62972 91675 05203 ... 99105 91306 51179 72134 69560 000 000	CW	(MPJ)
M12	8047	13-10	2000	Thu	463 1 7380 93 33672 65669 46538 25929 22956 ... 39461 23452 _942 58437 95937 000 000	CW	(MPJ)
M12	10343	14-10	1200	Fri	124 1 9731 52 54487 61712 79546 ... 76987 06672 20848 000 000	CW	(AB/MPJ/ES)
M12	9264	14-10	1220	Fri	124 1 9731 52 54487 61712 79546 ... 76987 06672 20848 000 000	CW	(AB/MPJ/ES)
M12	8116	14-10	1240	Fri	124 1 9731 52 54487 61712 79546 ... 76987 06672 20848 000 000	CW	(AB/MPJ)
M12	6832	15-10	0500	Sat	892 892 892 000	CW	(AB/F5JBR/ES)
M12	7932	15-10	0520	Sat	892 892 892 000	CW	(AB/F5JBR/ES)
M12	12214	15-10	1310	Sat	282 282 282 000	CW	(ES)
M12	10814	15-10	1330	Sat	282 282 282 000	CW	(ES)
M12	4617	17-10	0430	Mon	638 638 638 000	CW	(AB)
M12	4617	17-10	0430	Mon	638 638 638 000	CW	(ES)
M12	5317	17-10	0450	Mon	638 638 638 000	CW	(ES)
M12	5317	17-10	0450	Mon	638 638 638 000	CW	(AB)
M12	18639	17-10	1400	Mon	648 648 648 000	CW	(MPJ)
M12	9176	17-10	1800	Mon	257 1 9618 148 18329 64736 54031 99548 91197 ... 70624 40321 60103 51616 68141 000 000	CW	(MPJ)
M12	8047	17-10	1810	Mon	463 1 4601 121 36842 41898 32300 57037 50617 ... 10781 07520 87377 16281 97309 000 000	CW	(MPJ)
M12	7931	17-10	1820	Mon	257 1 9618 148 18329 64736 54031 99548 91197 ... 70624 40321 60103 51616 68141 000 000	CW	(MPJ)
M12	6802	17-10	1830	Mon	463 1 4601 121 36842 41898 32300 57037 50617 ... 10781 07520 87377 16281 97309 000 000	CW	(MPJ)
M12	6904	17-10	1840	Mon	257 1 9618 148 18329 64736 54031 99548 91197 ... 70624 40321 60103 51616 68141 000 000	CW	(MPJ)
M12	5788	17-10	1850	Mon	463 1 4601 121 36842 41898 32300 57037 50617 ... 10781 07520 87377 16281 97309 000 000	CW	(MPJ)
M12	8053	18-10	0800	Tue	816 1 5339 62 18275 62521 26573 ... 71765 88040 04534 000 000	CW	(AB-AUT/ES/F5JBR)
M12	9178	18-10	0820	Tue	816 1 5339 62 18275 62521 26573 ... 71765 88040 04534 000 000	CW	(AB-AUT/ES)
M12	10287	18-10	0840	Tue	816 1 5339 62 18275 62521 26573 ... 71765 88040 04534 000 000	CW	(AB-AUT/ES)
M12	5814	19-10	2100	Wed	826 1	CW	(HFD)
M12	5214	19-10	2120	Wed	826 1	CW	(HFD)
M12	4614	19-10	2140	Wed	826 1	CW	(HFD)
M12	6784	20-10	0630	Thu	761 761 761 000	CW	(AB/ES)
M12	7684	20-10	0650	Thu	761 761 761 000	CW	(AB/F5JBR)
M12	7684	20-10	0650	Thu	761 000] 0652z CW E.SMITH THU	CW	(ES)
M12	12214	20-10	1310	Thu	282 1 401 141 33897 80966 20453 ... 69267 84876 72704 000 000	CW	(AB)
M12	10814	20-10	1330	Thu	282 1 401 141 33897 80966 20453 ... 69267 84876 72704 000 000	CW	(AB)

M12	9214	20-10	1350	Thu	282 1 401 141 33897 80966 20453 ... 69267 84876 72704 000 000	CW	(AB)
M12	10343	21-10	1200	Fri	124 1 2451 66 47317 53411 48560 35222 000 000	CW	(ES)
M12	9264	21-10	1220	Fri	124 1 2451 66 47317 53411 48560 35222 000 000	CW	(ES)
M12	8116	21-10	1240	Fri	124 1 2451 66 47317 53411 48560 35222 000 000	CW	(ES)
M12	6832	22-10	0500	Sat	892 1 2443 89 90098 72387 08769 ... 00175 63120 43619 000 000	CW	(AB/F5JBR/ES)
M12	7932	22-10	0520	Sat	892 1 2443 89 90098 72387 08769 ... 00175 63120 43619 000 000	CW	(AB/F5JBR/ES)
M12	9232	22-10	0540	Sat	892 1 2443 89 90098 72387 08769 ... 00175 63120 43619 000 000	CW	(AB/ES)
M12	4617	24-10	0430	Mon	638 638 638 000	CW	(AB)
M12	5317	24-10	0450	Mon	638 638 638 000	CW	(AB)
M12	17439	24-10	1420	Mon	648 648 648 000	CW	(MPJ)
M12	9176	24-10	1800	Mon	257 1 3468 143 01199 71313 34630 03986 01756 ... 42430 55041 94542 43867 52031 000 000	CW	(MPJ)
M12	8047	24-10	1810	Mon	463 1 2732 110 17792 82932 12542 05883 63751 ... 57834 66706 51452 21229 81247 000 000	CW	(MPJ)
M12	7931	24-10	1820	Mon	257 1 3468 143 01199 71313 34630 03986 01756 ... 42430 55041 94542 43867 52031 000 000	CW	(MPJ)
M12	6802	24-10	1831	Mon	463 1 2732 110 17792 82932 12542 05883 63751 ... 57834 66706 51452 21229 81247 000 000	CW	(JPL-S/MPJ)
M12	6904	24-10	1840	Mon	257 1 3468 143 01199 71313 34630 03986 01756 ... 42430 55041 94542 43867 52031 000 000	CW	(MPJ)
M12	5788	24-10	1850	Mon	463 1 2732 110 17792 82932 12542 05883 63751 ... 57834 66706 51452 21229 81247 000 000	CW	(JPL-S/MPJ)
M12	8053	25-10	0800	Tue	816 1 3852 56 39034 63871 40697 96209 000 000	CW	(ES)
M12	8053	25-10	0800	Tue	816 1 3852 56 39034 63871 10902 ...	CW	(AB-I)
M12	9178	25-10	0820	Tue	816 1 3852 56 39034 63871 40697 96209 000 000	CW	(ES)
M12	10287	25-10	0840	Tue	816 1 3852 56 39034 63871 40697 96209 000 000	CW	(ES)
M12	9176	26-10	1800	Wed	257 1 1423 131 48503 20662 45372 28980 53128 ... 43721 39833 49930 07419 72395 000 000	CW	(MPJ)
M12	7931	26-10	1820	Wed	257 1 1423 131 48503 20662 45372 28980 53128 ... 43721 39833 49930 07419 72395 000 000	CW	(MPJ)
M12	6904	26-10	1840	Wed	257 1 1423 131 48503 20662 45372 28980 53128 ... 43721 39833 49930 07419 72395 000 000	CW	(MPJ)
M12	8047	26-10	1900	Wed	463 1 1118 130 05633 16569 05047 36129 06564 ... 93251 47810 44684 25887 85598 000 000	CW	(MPJ)
M12	6802	26-10	1920	Wed	463 1 1118 130 05633 16569 05047 36129 06564 ... 93251 47810 44684 25887 85598 000 000	CW	(MPJ)
M12	5788	26-10	1940	Wed	463 1 1118 130 05633 16569 05047 36129 06564 ... 93251 47810 44684 25887 85598 000 000	CW	(MPJ)
M12	12214	27-10	1310	Thu	282 282 282 000	CW	(MPJ/ES)
M12	10814	27-10	1330	Thu	282 282 282 000	CW	(MPJ/ES)
M12	10343	28-10	1200	Fri	124 1 6521 62 18548 47154 40644 ... 81200 57325 85062 000 000	CW	(AB/MPJ/ES)
M12	9264	28-10	1220	Fri	124 1 6521 62 18548 47154 40644 ... 81200 57325 85062 000 000	CW	(AB/MPJ/ES)
M12	8116	28-10	1240	Fri	124 1 6521 62 18548 47154 40644 ... 81200 57325 85062 000 000	CW	(AB/MPJ/ES)
M12	6832	29-10	0500	Sat	892 892 892 000	CW	(AB)
M12	7932	29-10	0520	Sat	892 892 892 000	CW	(AB)
M12	12214	29-10	1310	Sat	282 000	CW	(ES)
M12	10814	29-10	1330	Sat	282 000	CW	(ES)
M12	9176	31-10	1800	Mon	257 1 1146 144 39140 61782 34341 73070 43556 ... 34659 02720 64129 32818 04449 000 000	CW	(MPJ)
M12	8047	31-10	1810	Mon	463 1 7793 124 83427 82491 22543 65751 34719 ... 51353 02544 71981 89305 44888 000 000	CW	(MPJ)
M12	7931	31-10	1820	Mon	257 1 1146 144 39140 61782 34341 73070 43556 ... 34659 02720 64129 32818 04449 000 000	CW	(MPJ)
M12	6802	31-10	1830	Mon	463 1 7793 124 83427 82491 22543 65751 34719 ... 51353 02544 71981 89305 44888 000 000	CW	(MPJ)
M12	6904	31-10	1840	Mon	257 1 1146 144 39140 61782 34341 73070 43556 ... 34659 02720 64129 32818 04449 000 000	CW	(MPJ)
M12	5788	31-10	1850	Mon	463 1 7793 124 83427 82491 22543 65751 34719 ... 51353 02544 71981 89305 44888 000 000	CW	(MPJ)

M14	10755	4-10	1300	Tue	975 843 60 = 22461 89373 18270 88167 00000	CW	(ES)
M14	4826	4-10	1547	Tue	i.p. 85627 43813 52346 56571 72235 ... 60603 85.36 49006 91049 388 Stops at 1557 UTC	MCW	(MPJ)
M14	4826	4-10	1600	Tue	361 005 149 91007 82254 18022 83997 71308 ... 05864 86163 39725 57157 42795 005 149 00000	MCW	(AB/MPJ)
M14	5105	5-10	1607	Wed	i.p. 24266 53211 54522 36979 77342 ... 05864 86163 39725 57157 42795 005 149 00000	MCW	(MPJ)
M14	5944	7-10	1700	Fri	382 382 382 00000	CW	(AB/MPJ)
M14	5477	7-10	1800	Fri	382 382 382 00000	CW	(AB/MPJ)
M14	5430	8-10	0800	Sat	171 613 82 76251 82420 63321 ... 62091 76351 82240 613 82 00000	CW	(AB/HFD)
M14	5560	8-10	0900	Sat	171 613 82 76251 82420 63321 ... 62091 76351 82240 613 82 00000	CW	(AB/HFD)
M14	6990	9-10	0700	Sun	382 382 382 000	CW	(AB)
M14	17458	10-10	0930	Mon	617 617 617 00000	CW	(MPJ)
M14	10755	11-10	1300	Tue	975 84 57 = 10453 02437 23537 91951 00000	CW	(ES)
M14	5938	11-10	1800	Tue	346 518 86 32498 53900 12865 21208 51810 ... 63490 82310 20943 57286 61220 518 86 00000	MCW	(MPJ)
M14	5463	12-10	1920	Wed	537 518 86 32498 53900 12865 ... 20943 57286 61220 518 86 00000	MCW	(AB/MPJ)
M14	5240	16-10	2300	Sun	376 613 82 = 76251 82420 63321 ... 62091 76351 82240 613 82 00000	CW	(AB)
M14	5825	17-10	0000	Mon	376 613 82 = 76251 82420 63321 ... 62091 76351 82240 613 82 00000	CW	(AB)
M14	10755	18-10	1300	Tue	975 438 56 = 71902 71844 51419 34126 00000	CW	(ES)
M14	4826	18-10	1600	Tue	Started in the middle of a message, at 1603z: 361 005 149 91007 82254 18022 ... 39725 57157 42795 005 149 00000	CW	(AB/MPJ)
M14	5944	21-10	1700	Fri	382 382 382 00000	CW	(AB)
M14	5477	21-10	1800	Fri	382 382 382 00000	CW	(AB)
M14	5430	22-10	0800	Sat	171 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000	CW	(AB)
M14	5560	22-10	0900	Sat	171 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000	CW	(AB)
M14	6824	23-10	0600	Sun	382 382 382 00000	CW	(AB)
M14	6990	23-10	0700	Sun	382 382 382 00000	CW	(AB)
M14	10755	25-10	1308	Tue	i.p 72763 22908 = 841 59 00000	CW	(ES)
M14	5947	25-10	1820	Tue	346 518 86 32498 53900 12865 ... 20943 57286 61220 518 86 00000	CW	(AB)
M14	5463	26-10	1920	Wed	537 518 86 32498 53900 12865 ... 20943 57286 61220 518 86 00000	CW	(AB/MPJ)
M14	5934	27-10	1830	Thu	579 005 149 91007 82254 18022 83997 71308 ... 36153 99869 49504 27 (stops) Txn in error. Should be G06	MCW	(MPJ)
M14	5430	29-10	0800	Sat	171 613 82 = 76251 82420 63321 ... 62091 76351 82240 613 82 00000	CW	(AB-FNL)
M14	5560	29-10	0900	Sat	171 613 82 = 76251 82420 63321 ... 62091 76351 82240 613 82 00000	CW	(AB-FNL)
M14?	10744	27-10	1313	Thu	unid i.p. 12227 08134 97103 89066 09109 58609 = = 326 326 54 54 00000. Groups sent twice	CW	(MPJ)
M21	3543.5	5-10	1728	Wed	Russian Air Defense: 9510997541826 9510997513428 9510997513232	CW	(F5JBR)
M21	3543.5	5-10	1748	Wed	Russian Air Defense: 9510997016649571 95104108511200 //3895.5 kHz	CW	(F5JBR)
M21	3895.5	5-10	1748	Wed	Russian Air Defense: 9510997016649571 95104108511200 //3543.5 kHz	CW	(F5JBR)
M21	4800.5	13-10	0645	Thu	Russian Air Defense: 190978 87190 9688 0097 89996981 691 0009495 511800	CW	(F5JBR)
M21	6231	15-10	0834	Sat	=991139 ??0?????? =1793436162783 =991238??0?????? =27930901360630	CW	(F5JBR)
M21	2031.5	17-10	1640	Mon	Russian Air Defense: 9933993361840 99339933...	CW	(F5JBR)
M21	5180	17-10	1702	Mon	Russian Air Defense: 9955786229510 9955249249510 ...	CW	(F5JBR)
M21	3228.5	17-10	1738	Mon	Russian Air Defense: =992040??0????? =17934469613937 =992041??0????? =17934469613739 =17934469613739	CW	(F5JBR)

M21	5231	18-10	0507	Tue	Russian Air Defense: XXX PABA BOJOWYJ 5601 K. =99189998545708	CW	(F5JBR)
M21	4635.5	18-10	0625	Tue	Russian Air Defense: 740999318324 741996583128 8742993574229 1909740	CW	(F5JBR)
M21	5793.5	18-10	0638	Tue	Russian Air Defense: 09920993366538 51799209100511800	CW	(F5JBR)
M21	6765	18-10	0744	Tue	Russian Air Defense: 9614 861 01 9944 9616 861 61 44 9617 861 58 13 44 9620 996 38 65 44	CW	(F5JBR)
M21	4763.5	21-10	0520	Fri	Russian Air Defense: 1195040821	CW	(F5JBR)
M21	4639.5	21-10	0840	Fri	Russian Air Defense: 684650616540 =12168465816640 =22170401010212 =22170401010212	CW	(F5JBR)
M21	3383	21-10	1628	Fri	Russian Air Defense: 9969 77127 8 9701 9969 2642897 02 996978728	CW	(F5JBR)
M21	2814.5	21-10	1823	Fri	Russian Air Defense: 1909792 1909791 009794 99307 8191 00 2126 5118 00	CW	(F5JBR)
M22	2680	18-10	0349	Tue	VVV DE 4XZ 4XZ //4331 kHz	CW	(F5JBR)
M22	4331	18-10	0349	Tue	VVV DE 4XZ 4XZ //2680 kHz	CW	(F5JBR)
M32	14411	5-10	0932	Wed	XXX XXX RGT77 RGT77 46216 83489 WOLKOLAeD 8802 6650 ZEWODROK 5601 1826 ZONTOMID 6874 7265	CW	(JU)
M32	14411	5-10	0934	Wed	XXX XXX WEGI WEGI 46957 95820 MA AeOeNYJ 0243 0205 SORTOWOJ 5701 0088	CW	(JU)
M32	4827	6-10	1506	Thu	XXX KURASO 2045 K	CW	(F5JBR)
M32	3685	6-10	1520	Thu	XXX LB1E BEREZA 2754 7950 PAUZA 7788 3131 K	CW	(F5JBR)
M32	4181	8-10	0530	Sat	RGT77: XXX WEGI 61638 ABAKOFINT 3801 5023 K	CW	(F5JBR)
M32	5569	8-10	0532	Sat	XXX DDIZ 72333 SOWOK 0578 6263 K	CW	(F5JBR)
M32	4181	8-10	0535	Sat	XXX WEGI 81642 MAKETNYJ 6137 0661 URODOBUER 2897 2733 K //5366 kHz	CW	(F5JBR)
M32	5366	8-10	0535	Sat	XXX WEGI 81642 MAKETNYJ 6137 0661 URODOBUER 2897 2733 K //4181 kHz	CW	(F5JBR)
M32	5569	8-10	0555	Sat	XXX DDIZ 84601 OQIPKA 2360 0128 K	CW	(F5JBR)
M32	5569	8-10	0601	Sat	XXX DDIZ KONTROLX 8888 K	CW	(F5JBR)
M32	4558	8-10	0610	Sat	VUOZ 90540 GORNOKAUK 8592 8791 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	4602	8-10	0610	Sat	VUOZ 90540 GORNOKAUK 8592 8791 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	5240	8-10	0610	Sat	VUOZ 90540 GORNOKAUK 8592 8791 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	4558	8-10	0612	Sat	XXX VUOZ 62571 GRIMOOERT 2152 8370 IDEALIZACIA 2499 5166 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	4602	8-10	0612	Sat	XXX VUOZ 62571 GRIMOOERT 2152 8370 IDEALIZACIA 2499 5166 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	5240	8-10	0612	Sat	XXX VUOZ 62571 GRIMOOERT 2152 8370 IDEALIZACIA 2499 5166 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	4558	8-10	0617	Sat	XXX VUOZ 36699 BUKDODAMP 5351 5627 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	4602	8-10	0617	Sat	XXX VUOZ 36699 BUKDODAMP 5351 5627 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	5240	8-10	0617	Sat	XXX VUOZ 36699 BUKDODAMP 5351 5627 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	4602	8-10	0623	Sat	XXX VUOZ 72768 LIKOKNOP 5059 6881 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	4602	8-10	0623	Sat	XXX VUOZ 72768 LIKOKNOP 5059 6881 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	5240	8-10	0623	Sat	XXX VUOZ 72768 LIKOKNOP 5059 6881 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	4455	8-10	0629	Sat	XXX GJBW 57619 POROVNAK 5175 4424 04453 ChKALA 6135 2446 K	CW	(F5JBR)
M32	4455	8-10	0633	Sat	XXX GJBW 65221 ZUBROBIZON 0819 1895 86911 ZAGA DOIKT 1145 184 K	CW	(F5JBR)
M32	4455	8-10	0637	Sat	XXX GJBW 46808 OKSIPROLIN 9202 3152 K	CW	(F5JBR)
M32	4558	8-10	0646	Sat	XXX VUOZ 89636 GRUMOC hWED 2751 2832 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	4602	8-10	0646	Sat	XXX VUOZ 89636 GRUMOC hWED 2751 2832 K //4558//4602//5240 kHz	CW	(F5JBR)
M32	5240	8-10	0646	Sat	XXX VUOZ 89636 GRUMOC hWED 2751 2832 K //4558//4602//5240 kHz	CW	(F5JBR)

M32	5693	8-10	1842	Sat	i.p. QTC K. RPT K. YYBY 595 27 8 2140 595 - 702 = 05242 05814 96030 ... 30615 86302 08025 K R K	CW	(JPL-Sib)
M32	5388	9-10	0400	Sun	O7PK de 5GNB QTC 53 10 9 0630 = ZNK = 29835 97273 47385 29640 10847 49658 27890 42135 53124 =	CW	(F5JBR)
M32	3584	9-10	1344	Sun	ZEEK de YFJA QTC 195 15 9 1640 195 = ZWS 089 = 2920 7508 5863 0183 7424 1754 3290 7173 9751 2582 6328 2306 0912 RPT QLN AR	CW	(F5JBR)
M32	5569	10-10	0511	Mon	XXX DDIZ 95815 BRAKOBORQ 4871 6201 K	CW	(F5JBR)
M32	5378	10-10	0516	Mon	XXX VZFY 81863 OWESOSNOS 8886 7106 K	CW	(F5JBR)
M32	4775	10-10	0518	Mon	XXX VZFY 81863 OWESOSNOS 8886 7106 K	CW	(F5JBR)
M32	5569	10-10	0520	Mon	XXX DDIZ 53929 KLAKUCHKA 5045 0107 K	CW	(F5JBR)
M32	6012	10-10	1406	Mon	CIS mil net: RTH62 clg EYA32 UDX49 EYX70 ULF54 UGX36 EYS83	CW	(F5JBR)
M32	7050	11-10	0845	Tue	i.p. 111 100 11 135? 111 = 72627 21419 33403 93444 46021 ... 11 99 K. RPT K. OK. XXX XXX T9IW T9IW 34243 34232 OK QRU AR	CW	(IARUMS)
M32	6012	13-10	1406	Thu	CIS mil net: RTH62 clg EYA32 UDX49 EYX70 ULF54 UGX36 EYS83	CW	(F5JBR)
M32	5366	17-10	1234	Mon	XXX WEGI 93058 RAUTONARD 0480 8354 K	CW	(F5JBR)
M32	4558	17-10	1242	Mon	XXX VUOZ 54040 ZEKOROW 0834 5860 K	CW	(F5JBR)
M32	5096	17-10	1244	Mon	XXX VUOZ 68585 DRAKA 7858 8837 K	CW	(F5JBR)
M32	4455	17-10	1256	Mon	XXX GJBW 39585 HAROEWNIAK 9553 0689 K	CW	(F5JBR)
M32	4455	17-10	1258	Mon	XXX GJBW 09387 EKWATIW 9977 0810 K	CW	(F5JBR)
M32	5569	17-10	1337	Mon	XXX G7M3 KONTROLX 8888 K	CW	(F5JBR)
M32	5569	17-10	1338	Mon	XXX G7M3 93509 GRANULACIA 3089 7515	CW	(F5JBR)
M32	5569	17-10	1357	Mon	XXX G7M3 87430 POLYHANIE 5487 2237 K	CW	(F5JBR)
M32	5240	17-10	1358	Mon	XXX VUOZ 87150 KLEQOPOST 6032 6012 K	CW	(F5JBR)
M32	3331	17-10	1542	Mon	XXX 1QRF F2ET 53682 33911 ULET 2354 5759 K	CW	(F5JBR)
M32	2613	17-10	1545	Mon	XXX 24374 KENOTRON 6970 8862 K. 4 outstations acknowledge receipt	CW	(F5JBR)
M32	3241	17-10	1652	Mon	XXX LOMO 56980 PROKOCHIK 0781 1635 K	CW	(F5JBR)
M32	2613	17-10	1713	Mon	XXX GJBW 10942 ARANEIDA 4643 9043 K. 4 outstations acknowledge receipt	CW	(F5JBR)
M32	3222.5	17-10	1732	Mon	XXX 49337 OBOBQENNYJ 1186 3356 K. 3 outstations acknowledge receipt	CW	(F5JBR)
M32	3164.5	17-10	1746	Mon	XXX Y11C NRAWOTROK 2696 4632 K. 4 outstations acknowledge receipt	CW	(F5JBR)
M32	3164.5	17-10	1752	Mon	XXX Y11C 58169 DIODOCHLTH 0575 1020 K. 4 outstations acknowledge receipt	CW	(F5JBR)
M32	2613	17-10	1754	Mon	XXX GJBW 26070 POOQRITELX 7815 5407 K. 4 outstations acknowledge receipt	CW	(F5JBR)
M32	2613	17-10	1758	Mon	XXX GJBW 21235 GALAS 8987 4229 K. 4 outstations acknowledge receipt	CW	(F5JBR)
M32	3814	17-10	1824	Mon	1ID2 DE 1ID2 1051 9895 2853 1460 2413 7232 4366 8677 9044 3468 8786 2006 K. 1ID2 R K	CW	(F5JBR)
M32	16112	20-10	0957	Thu	XXX XXX WEGI WEGI 36624 41243 ULXTIMATUM 6130 1985 STENXGA 9454 0838 K	CW	(AB)
M32	16112	31-10	1020	Mon	RDL RDL RDL 09769 86127 09769 86127 09769 86127 K	CW	(AB)
M32	16112	31-10	1031	Mon	RDL RDL RDL 59232 22547 59232 22547 59232 22547 K	CW	(AB)
M32a	3750	4-10	0303	Tue	RMW46: XXX RGR99 START 4212 3415 K	CW	(F5JBR)
M32a	3750	4-10	0316	Tue	RMW46: XXX RGR99 MERIDIAN 4899 9755 K	CW	(F5JBR)
M32a	6956	4-10	0500	Tue	RMW46 wkg RGR88, RGR89, RGR90, RGR91, RFH46, RGR92, RGR93, RGR94, RGR95, RGR96, RGR97, RDQ81, RGR98, RGR99	CW	(F5JBR)
M32a	2630.5	6-10	1815	Thu	i.p. QTC SML FM RCQK FOR RJD52FM RCQK FOR RJD52 RCQK FOR RJD52 RJD88 = 06181 99443 10480 41/96 91410 10140 ...	CW	(F5JBR)
M32a	4498.5	8-10	0619	Sat	RMP: XXX RJD69 70446 LXE 5503 0653 K	CW	(F5JBR)
M32a	4537.5	9-10	0309	Sun	RJD99 de RAS82 QTC 651 8 9 0601 651 = FOR RJD99 = FOR RJD99 = 00883 02122 00300 00004 00001 00010 09006 = AR RAS82 K	CW	(F5JBR)
M32a	4537.5	10-10	0423	Mon	RAS82 sends: QTC SML FOR FOR RJD90 RJH74 = 10031 99669 10327	CW	(F5JBR)

M32a	4537.5	10-10	0455	Mon	RBC89 sends: QTC SML FOR RJD90 RJH74 = 10031 99671 10414	CW	(F5JBR)
M32a	4537.5	13-10	0405	Thu	RBE99 sends: QTC SML FOR FOR RJD90 RJH74 = 13001 99662 10414	CW	(F5JBR)
M32a	4810	17-10	1249	Mon	XXX RMU51 98367 BARDOSREZ 1679 9678 K	CW	(F5JBR)
M32a	4909.5	17-10	1346	Mon	XXX RJD69 RJL96 27580 ZAPIRANIE 7802 5986 KATA-STROFA 4992 8354 K	CW	(F5JBR)
M32a	7602	27-10	1012	Thu	i.p. 00005 01824 50015 00006 01824 II 001.5 00102 01824 40011 AR T XXX XXX RLO RLO ELASTI ONYJ 01 1045 050 135 1255 K	CW	(JPL-S)
M32b	8816	4-10	0810	Tue	Russian Naval Air Transport. rjf94 rjc38 de 30460 qth 6519 3416 qtr 0805 qbg 5800 k	CW	(WP3)
M32b	8816	4-10	1111	Tue	Russian Naval Air Transport. rjf94 rjc38 de 30460 qto 1100 qrd XUMO XLLV qbd 5500 qre 1300 k	CW	(WP3)
M32b	8816	4-10	1423	Tue	Russian Naval Air Transport. rjf94 rjc38 de 30460 qto 1410 qrd XLMV XUMO qbd 5500 qre 1900 k	CW	(WP3)
M32b	8816	17-10	0714	Mon	Russian Naval Air Transport: rjf94 rjc38 de 10575 qto 0703 qrd XLWF XLMV qre 0915 qbd 13200 k	CW	(WP3)
M32b	8816	17-10	1039	Mon	Russian Naval Air Transport: rjf94 rjc38 de 10575 qto 1033 qrd XLMV XLWF qre 1300 qbd 13600 k	CW	(WP3)
M32b	8816	17-10	1542	Mon	Russian Naval Air Transport: rjf94 rjc38 de 10575 qto 1535 qrd XLDR XLMV qre 1720 qbd 14000 k	CW	(WP3)
M32b	8816	18-10	0710	Tue	Russian Naval Air Transport: rjf94 rjc38 de qto 0700 qrd XLAA XLMV qre 0845 qbd 4600 k	CW	(WP3)
M32b	8816	18-10	1126	Tue	Russian Naval Air Transport: rjf94 rjc38 de 42171 qto 1115 qrd XUMU XLMV qre 1330 qbd 14000 k	CW	(WP3)
M32b	8816	18-10	1512	Tue	Russian Naval Air Transport: rjc38 rjf94 de 30456 qto 1500 qrd XLMV XLAA qre 1655 qbd 4800 k	CW	(WP3)
M32c	2807	17-10	1540	Mon	XXX 25067 LEBEDENOK 21081156	CW	(F5JBR)
M41	4959	1-10	1503	Sat	99 9999335478... RCUP RCUP 990199 9999335478 RCUP RCUP AR	CW	(F5JBR)
M41	5231	1-10	1600	Sat	VVV VVV VVV VVV and ASEU ASEU AR	CW	(F5JBR)
M41	3814	4-10	1730	Tue	i.p. RPT 1199 4873 60 55 4119 5324 6349 166 52 83 3618 ... VVV A723 de 3EAM ZVJ ZVR ZCN ZZU ZBR RPT ZVJ ZVP ZCN ZZU ZBR K	CW	(F5JBR)
M41	4635.5	7-10	0633	Fri	N9SA N9SA N9SA 0090500 99758 56 7100 EEEEE 0095009975 7671700935 511600 95009975 8593295009975 849	CW	(F5JBR)
M41	5793.5	8-10	0603	Sat	RCUP RCUP AR	CW	(F5JBR)
M41	5180	8-10	0643	Sat	9500 997 5846 34 9500 997 5849 35 517 9500 7150511 600 9500 997 5842 36 9500 997 5836 37 9500 997 5839 38 9500 997 583239	CW	(F5JBR)
M41	7355	14-10	1102	Fri	PWZW: 5208 4543 551 81029 01 = 5210 4591 736 81015 01 ... = PWZW	CW	(F5JBR)
M41	7355	15-10	0836	Sat	PWZW: 3257 458 34369 1102 41 = 257 458 343191 101 43 = 3257 458 2459 891 099 45 =	CW	(F5JBR)
M41	4044.5	15-10	1801	Sat	722 1949 7130 9123 22 128710 0001 RPT 722 1949 7130 9123 22 128710 0001 AR	CW	(F5JBR)
M41	6362	17-10	0448	Mon	5L91 5L9I AR	CW	(F5JBR)
M41	4800.5	17-10	0503	Mon	N9SA N9SA 7221 949700 9969681 29152 09008 03 RPT 7221 949700 996968 129152 09008 03 K and 0097989935744910805511800	CW	(F5JBR)
M41	3814	17-10	1714	Mon	6LNG i.p.: RPT 722 1949 60386 15877 12872 27020 10 K K and VVV VVV 6LNG ZJH ZMU ZMM ZGA ZYW = 6LNG ZJH ZMU ZMM ZGA ZYW K	CW	(F5JBR)
M41	2568.5	17-10	1720	Mon	72219497429969278128822702022 RPT 72219497429969278128822702022 A2T9 K	CW	(F5JBR)
M41	2568.5	18-10	1745	Tue	972 79960 829 46 73 09969 823 46. 974 09969 822 48 972 79960 893 48	CW	(F5JBR)
M41	2471	18-10	1843	Tue	42 5179659 81 40 511 200. 99601 868 69 44 21 43 517 9601 71 01 511 800 00 ...	CW	(F5JBR)
M41	2665	18-10	1853	Tue	KN1A KN1A AR	CW	(F5JBR)
M41	5831	19-10	0743	Wed	F1RT F1RT AR	CW	(F5JBR)
M41	3712	19-10	1743	Wed	DCA2 AR DCA2 WZD 1300 454 2929 72 10 50 ABV 1300 4542927721050 72252 ...	CW	(F5JBR)

M41	4800.5	20-10	0449	Thu	N9SA N9SA ZJL ZDK ZYZ ZHD ZIM ZXS RPT ZJL ZDK ZYZ ZHD ZIM ZXS K	CW	(F5JBR)
M41	4635.5	21-10	0809	Fri	9702996979708 9701996026108 9610996029108 //4800.5 kHz	CW	(F5JBR)
M41	4800.5	21-10	0809	Fri	9702996979708 9701996026108 9610996029108 //4635.5 kHz	CW	(F5JBR)
M41	5231.5	21-10	1508	Fri	RCUP RCUP AR	CW	(F5JBR)
M42	16288	21-10	0705	Fri	Russian diplo i.p.	CROWD-36	(AB)
M42b	5328	6-10	0620	Thu	WL4I wkg BFRW. Msg in FSK 50/500 and opchat in CW	CW	(F5JBR)
M42b	5471	8-10	0550	Sat	UOZG wkd WDAK	FSK 50/500	(F5JBR)
M42b	4958	8-10	1440	Sat	OUGW wkg PRIL: QSY 99974	CW	(F5JBR)
M42b	5471	10-10	0550	Mon	UOZG wkg WDAK	FSK 50/500	(F5JBR)
M42b	5328	12-10	0620	Wed	BFRW wkg WL4I	FSK 50/500	(F5JBR)
M42b	3825	12-10	0731	Wed	NIRK wkg PE4K Radio checks	CW	(F5JBR)
M42b	3764	12-10	0738	Wed	TBJY wkg EVCR	FSK 50/500	(F5JBR)
M42b	3231	12-10	1816	Wed	SN7D wkg G5OP	FSK 50/500	(F5JBR)
M42b	6771	13-10	1332	Thu	LKDW wkg PRAT	FSK 50/500	(F5JBR)
M42b	5732	14-10	0533	Fri	FGDE wkg CNOX. QSA NO QSY 52144	CW	(F5JBR)
M42b	4984	14-10	0630	Fri	WL4I wkg BFRW. Msgs in FSK 50/500	CW	(F5JBR)
M42b	4547	14-10	0830	Fri	MRLC wkg BZTJ. Radio checks, QSY QSW QSA NO SK	CW	(F5JBR)
M42b	4011	14-10	1722	Fri	G3WM wkg SK8I	FSK 50/500	(F5JBR)
M42b	5932	16-10	1130	Sun	FKLS wkg BUHN	FSK 50/500	(F5JBR)
M42b	6837	16-10	1408	Sun	SK8I Wkg G3WM	FSK 50/500	(F5JBR)
M42b	6877	16-10	1414	Sun	SK8I Wkg G3WM	FSK 50/500	(F5JBR)
M42b	5774	17-10	1341	Mon	GENP DE MERG QSY 89631 K	CW	(F5JBR)
M42b	5332	17-10	1355	Mon	GENP DE MERG QSY 89631 K	CW	(F5JBR)
M42b	5254	18-10	1234	Tue	U1SK wkg outstation: 354 20 18 1245 1234 = 06416 54006 ... QRU NIL SK	CW	(F5JBR)
M42b	5471	19-10	0549	Wed	UOZG wkg WDAK. Messages sent in FSK 50/500	CW	(F5JBR)
M42b	5833	20-10	0624	Thu	ZE4A wkg EBCW. Messages sent in FSK 50/500	CW	(F5JBR)
M42b	3875	25-10	0321	Tue	TZ9X wkg outstation	CW	(F5JBR)
M42b	4035	25-10	0452	Tue	UW9M wkg L47D: QSY 56663	CW	(F5JBR)
M42c	19526	1-10	1200	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix/HFD)
M42c	17463	1-10	1210	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix/HFD)
M42c	15824	1-10	1220	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix/HFD)
M42c	11462	1-10	1810	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	9226	1-10	1820	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	7829	1-10	1830	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	11136	4-10	1840	Tue	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	9074	4-10	1850	Tue	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
M42c	7723	4-10	1900	Tue	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
M42c	20966	7-10	2229	Fri	Russian diplo/intel. Link ID 00116, Date 7th, Serial #45, Groups 150, header: 11177 00116 49183 07045 01509	FSK 200/500	(Danix-USA)
M42c	18954	7-10	2239	Fri	Russian diplo/intel. Link ID 00116, Date 7th, Serial #45, Groups 150, header: 11177 00116 49183 07045 01509	FSK 200/500	(Danix-USA)
M42c	19526	8-10	1200	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	17463	8-10	1210	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	15824	8-10	1220	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	11462	8-10	1810	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix/JFD)
M42c	9226	8-10	1820	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix/HFD)
M42c	7829	8-10	1830	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix/HFD)
M42c	14434	10-10	0025	Mon	Link ID 00117, Date 7th, Serial #45, Groups 138. Header: 11177 00117 68249 07045 01389	FSK 200/500	(Danix-USA)
M42c	11439	10-10	0035	Mon	Link ID 00117, Date 7th, Serial #45, Groups 138. Header: 11177 00117 68249 07045 01389	FSK 200/500	(Danix-USA)
M42c	14434	10-10	0125	Mon	Link ID 00117, Date 7th, Serial #45, Groups 138. Header: 11177 00117 68249 07045 01389	FSK 200/500	(Danix-USA)
M42c	11439	10-10	0135	Mon	Link ID 00117, Date 7th, Serial #45, Groups 138. Header: 11177 00117 68249 07045 01389	FSK 200/500	(Danix-USA)
M42c	17476	12-10	0800	Wed	Russian diplo/intel. =8031 542730880606576104 ...)581168+++++++61	FSK 200/500	(AB)
M42c	16076	12-10	0810	Wed	Russian diplo/intel. =8031 542730880606576104 ...)581168+++++++61	FSK 200/500	(AB)
M42c	20966	14-10	2229	Fri	Russian diplo/intel. Link ID 00116, Date 14th, Serial #46, Groups 204, header: 11177 00116 91420 14046 02069	FSK 200/500	(Danix-USA)

M42c	18954	14-10	2239	Fri	Russian diplo/intel. Link ID 00116, Date 14th, Serial #46, Groups 204, header: 11177 00116 91420 14046 02069	FSK 200/500	(Danix-USA)
M42c	19526	15-10	1200	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	17463	15-10	1210	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	15824	15-10	1220	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	11462	15-10	1810	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	9226	15-10	1820	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix/BvR)
M42c	7829	15-10	1830	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	14434	16-10	0024	Sun	Russian diplo/intel. Link ID 00117, Date 14th, Serial #46, Groups 214. Header: 11177 00117 72815 14046 02149	FSK 200/500	(Danix-USA)
M42c	11439	16-10	0034	Sun	Russian diplo/intel. Link ID 00117, Date 14th, Serial #46, Groups 214. Header: 11177 00117 72815 14046 02149	FSK 200/500	(Danix-USA)
M42c	14434	16-10	0124	Sun	Russian diplo/intel. Link ID 00117, Date 14th, Serial #46, Groups 214. Header: 11177 00117 72815 14046 02149	FSK 200/500	(Danix-USA)
M42c	11439	16-10	0134	Sun	Russian diplo/intel. Link ID 00117, Date 14th, Serial #46, Groups 214. Header: 11177 00117 72815 14046 02149	FSK 200/500	(Danix-USA)
M42c	19526	22-10	1200	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	17463	22-10	1210	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	15824	22-10	1220	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	11462	22-10	1810	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	9226	22-10	1820	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	7829	22-10	1830	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	15885	25-10	2206	Tue	Russian diplo/intel via Cuba. 2 messages. Header: 11166 00127 48295 21001 00859	FSK 200/500	(MCO)
M42c	14352	25-10	2216	Tue	Russian diplo/intel via Cuba. 2 messages. Header: 11166 00127 48295 21001 00859	FSK 200/500	(MCO)
M42c	12185	25-10	2224	Tue	Russian diplo/intel via Cuba. 2 messages. Header: 11166 00127 48295 21001 00859	FSK 200/500	(MCO)
M42c	20966	28-10	2230	Fri	Russian diplo/intel. Link ID 00116, Date 28th, Serial #48, Groups 245. Header: 11177 00116 29465 28048 02459	FSK 200/500	(Danix-USA)
M42c	18954	28-10	2240	Fri	Russian diplo/intel. Link ID 00116, Date 28th, Serial #48, Groups 245. Header: 11177 00116 29465 28048 02459	FSK 200/500	(Danix-USA)
M42c	19526	29-10	1200	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	17463	29-10	1210	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	15824	29-10	1220	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	11462	29-10	1810	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB-GRC/Danix)
M42c	9226	29-10	1820	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB-GRC/Danix/MPJ)
M42c	7829	29-10	1830	Sat	Russian intel/diplo.)5761 00000+++++++162	FSK 200/500	(AB-GRC/Danix)
M42d	17423	1-10	1100	Sat	Russian diplo/intel. Link ID 36882, Date 30th, Serial #66, Groups 301	FSK 200/1000	(AB/Danix/MPJ)
M42d	15628	1-10	1110	Sat	Russian diplo/intel. Link ID 36882, Date 30th, Serial #66, Groups 301	FSK 200/1000	(AB/Danix/MPJ)
M42d	13385	1-10	1120	Sat	Russian diplo/intel. Link ID 36882, Date 30th, Serial #66, Groups 301	FSK 200/1000	(AB/Danix/MPJ)
M42d	18356	1-10	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix)
M42d	20461	1-10	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix)
M42d	22963	1-10	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix)
M42d	17423	2-10	1100	Sun	Russian diplo/intel. Link ID 36882, Date 30th, Serial #66, Groups 301	FSK 200/1000	(AB/Danix)
M42d	15628	2-10	1110	Sun	Russian diplo/intel. Link ID 36882, Date 30th, Serial #66, Groups 301	FSK 200/1000	(AB/Danix)
M42d	13385	2-10	1120	Sun	Russian diplo/intel. Link ID 36882, Date 30th, Serial #66, Groups 301	FSK 200/1000	(AB/Danix)
M42d	14859	2-10	1530	Sun	Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	12184	2-10	1540	Sun	Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	10273	2-10	1550	Sun	Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)

M42d	9354	3-10	0400	Mon	Russian diplo/intel. Link ID 45079, Date 30th, Serial #17, Groups 412	FSK 200/1000	(Danix)
M42d	7956	3-10	0410	Mon	Russian diplo/intel. Link ID 45079, Date 30th, Serial #17, Groups 412	FSK 200/1000	(Danix)
M42d	6774	3-10	0420	Mon	Russian diplo/intel. Link ID 45079, Date 30th, Serial #17, Groups 412	FSK 200/1000	(Danix)
M42d	13426	4-10	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	11116	4-10	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	9175	4-10	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	10521	4-10	2300	Tue	Russian diplo/intel. Link ID 40988, Date 29th, Serial #71, Groups 350	FSK 200/1000	(Danix)
M42d	8044	4-10	2310	Tue	Russian diplo/intel. Link ID 40988, Date 29th, Serial #71, Groups 350	FSK 200/1000	(Danix)
M42d	6941	4-10	2320	Tue	Russian diplo/intel. Link ID 40988, Date 29th, Serial #71, Groups 350	FSK 200/1000	(Danix)
M42d	18546	5-10	0800	Wed	Russian diplo/intel. Msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	16231	5-10	0810	Wed	Russian diplo/intel. Msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	14629	5-10	0820	Wed	Russian diplo/intel. Msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	22863	5-10	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	20674	5-10	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	18594	5-10	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	19363	5-10	1230	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/MPJ)
M42d	17476	5-10	1240	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/MPJ)
M42d	15873	5-10	1250	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/MPJ)
M42d	9948	5-10	2100	Wed	Russian diplo/intel. Link ID 45079, Date 30th, Serial #17, Groups 412	FSK 200/1000	(Danix)
M42d	8115	5-10	2110	Wed	Russian diplo/intel. Link ID 45079, Date 30th, Serial #17, Groups 412	FSK 200/1000	(Danix)
M42d	6826	5-10	2120	Wed	Russian diplo/intel. Link ID 45079, Date 30th, Serial #17, Groups 412	FSK 200/1000	(Danix)
M42d	16320	6-10	0200	Thu	Russian diplo/intel. Link ID 41018, Date 5th, Serial #86, Groups 232	FSK 200/1000	(Dan)
M42d	14880	6-10	0300	Thu	Russian diplo/intel. Link ID 41018, Date 5th, Serial #86, Groups 232	FSK 200/1000	(Dan)
M42d	18546	6-10	0800	Thu	Russian diplo/intel. Msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	16231	6-10	0810	Thu	Russian diplo/intel. Msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	14629	6-10	0820	Thu	Russian diplo/intel. Msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	15841	6-10	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
M42d	13376	6-10	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	11108	6-10	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	15813	7-10	0600	Fri	Russian diplo/intel. Link ID 40988, Date 29th, Serial #71, Groups 350	FSK 200/1000	(AB/Danix)
M42d	13389	7-10	0610	Fri	Russian diplo/intel. Link ID 40988, Date 29th, Serial #71, Groups 350	FSK 200/1000	(AB/Danix)
M42d	11044	7-10	0620	Fri	Russian diplo/intel. Link ID 40988, Date 29th, Serial #71, Groups 350	FSK 200/1000	(AB/Danix)
M42d	14986	8-10	0800	Sat	Russian diplo/intel. Link ID 45115, Date 7th, Serial #41, Groups 180	FSK 200/1000	(AB/Danix)
M42d	12219	8-10	0810	Sat	Russian diplo/intel. Link ID 45115, Date 7th, Serial #41, Groups 180	FSK 200/1000	(AB/Danix)
M42d	10574	8-10	0820	Sat	Russian diplo/intel. Link ID 45115, Date 7th, Serial #41, Groups 180	FSK 200/1000	(AB/Danix)
M42d	18919	8-10	0900	Sat	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix)
M42d	16268	8-10	0910	Sat	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix)
M42d	14486	8-10	0920	Sat	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix)
M42d	17423	8-10	1100	Sat	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix)
M42d	15628	8-10	1110	Sat	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix)
M42d	13385	8-10	1120	Sat	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix)
M42d	22963	8-10	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	20461	8-10	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix/MPJ)

M42d	18356	8-10	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix/MPJ)
M42d	14986	9-10	0800	Sun	Russian diplo/intel. Link ID 45115, Date 7th, Serial #41, Groups 180	FSK 200/1000	(AB/Danix)
M42d	12219	9-10	0810	Sun	Russian diplo/intel. Link ID 45115, Date 7th, Serial #41, Groups 180	FSK 200/1000	(AB/Danix)
M42d	10574	9-10	0820	Sun	Russian diplo/intel. Link ID 45115, Date 7th, Serial #41, Groups 180	FSK 200/1000	(AB/Danix)
M42d	18919	9-10	0900	Sun	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix)
M42d	16268	9-10	0910	Sun	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix)
M42d	14486	9-10	0920	Sun	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix)
M42d	17423	9-10	1100	Sun	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix/MPJ)
M42d	15628	9-10	1110	Sun	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix/MPJ)
M42d	13385	9-10	1120	Sun	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix)
M42d	14859	9-10	1530	Sun	Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	12184	9-10	1540	Sun	Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	10273	9-10	1550	Sun	Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	16246	11-10	1400	Tue	Russian diplo/intel. Link ID 16404, Date 11th, Serial #3, Groups 139	FSK 200/1000	(Danix)
M42d	14383	11-10	1410	Tue	Russian diplo/intel. Link ID 16404, Date 11th, Serial #3, Groups 139	FSK 200/1000	(Danix)
M42d	12158	11-10	1420	Tue	Russian diplo/intel. Link ID 16404, Date 11th, Serial #3, Groups 139	FSK 200/1000	(Danix)
M42d	13426	11-10	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/RL)
M42d	11116	11-10	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	9175	11-10	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	6941	11-10	2300	Tue	Russian diplo/intel. Null msg on link 40988, Null message	FSK 200/1000	(AB/Danix)
M42d	8044	11-10	2300	Tue	Russian diplo/intel. Null msg on link 40988, Null message	FSK 200/1000	(AB/Danix)
M42d	10521	11-10	2300	Tue	Russian diplo/intel. Null msg on link 40988, Null message	FSK 200/1000	(AB/Danix)
M42d	15779	12-10	0620	Wed	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB/Danix)
M42d	18546	12-10	0800	Wed	Russian diplo/intel. Link ID 45075, Date 11th, Serial #12, Groups 256	FSK 200/1000	(AB/Danix)
M42d	20016	12-10	0800	Wed	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(Danix)
M42d	16231	12-10	0810	Wed	Russian diplo/intel. Link ID 45075, Date 11th, Serial #12, Groups 256	FSK 200/1000	(AB/Danix)
M42d	18325	12-10	0810	Wed	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(Danix)
M42d	14629	12-10	0820	Wed	Russian diplo/intel. Link ID 45075, Date 11th, Serial #12, Groups 256	FSK 200/1000	(AB/Danix)
M42d	16249	12-10	0820	Wed	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(AB/Danix)
M42d	17458	12-10	0925	Wed	Russian diplo/intel. Link ID 20492, Null message	FSK 200/1000	(Danix)
M42d	15884	12-10	0935	Wed	Russian diplo/intel. Link ID 20492, Null message	FSK 200/1000	(Danix)
M42d	22863	12-10	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	20674	12-10	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	18594	12-10	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	15779	13-10	0620	Thu	Russian diplo/intel. Msg on link 32816	FSK 200/1000	(AB)
M42d	18546	13-10	0800	Thu	Russian diplo/intel. Msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	20016	13-10	0800	Thu	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(Danix)
M42d	16231	13-10	0810	Thu	Russian diplo/intel. Msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	18325	13-10	0810	Thu	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(Danix)
M42d	14629	13-10	0820	Thu	Russian diplo/intel. Msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	16249	13-10	0820	Thu	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(Danix)
M42d	15841	13-10	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)

M42d	13376	13-10	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	11108	13-10	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	13546	14-10	1500	Fri	Russian diplo/intel. Link ID 16404, Date 14th, Serial #6, Groups 167	FSK 200/1000	(Danix)
M42d	11535	14-10	1510	Fri	Russian diplo/intel. Link ID 16404, Date 14th, Serial #6, Groups 167	FSK 200/1000	(Danix)
M42d	9256	14-10	1520	Fri	Russian diplo/intel. Link ID 16404, Date 14th, Serial #6, Groups 167	FSK 200/1000	(Danix)
M42d	17423	15-10	1100	Sat	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix)
M42d	15628	15-10	1110	Sat	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix)
M42d	13385	15-10	1120	Sat	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix)
M42d	22963	15-10	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	20461	15-10	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	18356	15-10	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	9354	16-10	0400	Sun	Russian diplo/intel. Link ID 45079, Date 14th, Serial #18, Groups 211	FSK 200/1000	(Danix)
M42d	7956	16-10	0410	Sun	Russian diplo/intel. Link ID 45079, Date 14th, Serial #18, Groups 211	FSK 200/1000	(Danix)
M42d	6774	16-10	0420	Sun	Russian diplo/intel. Link ID 45079, Date 14th, Serial #18, Groups 211	FSK 200/1000	(Danix)
M42d	17423	16-10	1100	Sun	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix)
M42d	15628	16-10	1110	Sun	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix)
M42d	13385	16-10	1120	Sun	Russian diplo/intel. Link ID 36882, Date 7th, Serial #67, Groups 145	FSK 200/1000	(AB/Danix)
M42d	14859	16-10	1530	Sun	Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	12184	16-10	1540	Sun	Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	10273	16-10	1550	Sun	Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	13426	18-10	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	11116	18-10	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	9175	18-10	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	6941	18-10	2300	Tue	Russian diplo/intel. Null msg on link 40988, Null message	FSK 200/1000	(AB/Danix)
M42d	8044	18-10	2300	Tue	Russian diplo/intel. Null msg on link 40988, Null message	FSK 200/1000	(Danix)
M42d	10521	18-10	2300	Tue	Russian diplo/intel. Null msg on link 40988, Null message	FSK 200/1000	(Danix)
M42d	19268	19-10	0600	Wed	Russian diplo/intel. Null msg on link 32816	FSK 200/1000	(AB-S/Danix)
M42d	17548	19-10	0610	Wed	Russian diplo/intel. Null msg on link 32816	FSK 200/1000	(AB-S/Danix)
M42d	15779	19-10	0620	Wed	Russian diplo/intel. Null msg on link 32816	FSK 200/1000	(AB-S/Danix)
M42d	18546	19-10	0800	Wed	Russian diplo/intel. Link ID 45075, null msg	FSK 200/1000	(AB/Danix)
M42d	16231	19-10	0810	Wed	Russian diplo/intel. Link ID 45075, null msg	FSK 200/1000	(AB/Danix)
M42d	14627	19-10	0820	Wed	Russian diplo/intel. Link ID 45075, null msg. Should be on 14629 kHz	FSK 200/1000	(AB/Danix)
M42d	22863	19-10	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	20674	19-10	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	18594	19-10	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	19363	19-10	1230	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix)
M42d	17476	19-10	1240	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix)
M42d	15873	19-10	1250	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix)
M42d	9948	19-10	2100	Wed	Russian diplo/intel. Link ID 45079, Date 14th, Serial #18, Groups 211	FSK 200/1000	(Danix)
M42d	8115	19-10	2110	Wed	Russian diplo/intel. Link ID 45079, Date 14th, Serial #18, Groups 211	FSK 200/1000	(Danix)
M42d	6826	19-10	2120	Wed	Russian diplo/intel. Link ID 45079, Date 14th, Serial #18, Groups 211	FSK 200/1000	(Danix)
M42d	15841	20-10	1330	Thu	Russian diplo/intel. Link ID 49237, Date 20th, Serial #24, Groups 132	FSK 200/1000	(AB/Danix)
M42d	13376	20-10	1340	Thu	Russian diplo/intel. Link ID 49237, Date 20th, Serial #24, Groups 132	FSK 200/1000	(AB/Danix)
M42d	11108	20-10	1350	Thu	Russian diplo/intel. Link ID 49237, Date 20th, Serial #24, Groups 132	FSK 200/1000	(AB/Danix)

M42d	14421	21-10	0100	Fri	Russian diplo/intel. =8573 0209359508074247	FSK 200/500	(RL)
M42d	16320	21-10	0200	Fri	Russian diplo/intel. Msg on link 41018	FSK 200/1000	(RL)
M42d	15841	21-10	1330	Fri	Russian diplo/intel. Link ID 49237, Date 20th, Serial #24, Groups 132	FSK 200/1000	(AB/Danix)
M42d	13376	21-10	1340	Fri	Russian diplo/intel. Link ID 49237, Date 20th, Serial #24, Groups 132	FSK 200/1000	(AB/Danix)
M42d	11108	21-10	1350	Fri	Russian diplo/intel. Link ID 49237, Date 20th, Serial #24, Groups 132	FSK 200/1000	(AB/Danix)
M42d	20966	21-10	2229	Fri	Russian diplo/intel. Link ID 00116, Date 21st, Serial #47, Groups 273. Header: 11177 00116 79154 21047 02739	FSK 200/1000	(Danix-USA)
M42d	18954	21-10	2239	Fri	Russian diplo/intel. Link ID 00116, Date 21st, Serial #47, Groups 273. Header: 11177 00116 79154 21047 02739	FSK 200/1000	(Danix-USA)
M42d	14986	22-10	0800	Sat	Russian diplo/intel. Link ID 45114, Date 21st, Serial #42, Groups 126	FSK 200/1000	(AB/Danix/BvR)
M42d	12219	22-10	0810	Sat	Russian diplo/intel. Link ID 45114, Date 21st, Serial #42, Groups 126	FSK 200/1000	(AB/Danix/BvR)
M42d	10574	22-10	0820	Sat	Russian diplo/intel. Link ID 45114, Date 21st, Serial #42, Groups 126	FSK 200/1000	(AB/Danix)
M42d	18919	22-10	0900	Sat	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix/BvR)
M42d	16268	22-10	0910	Sat	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix/BvR)
M42d	14486	22-10	0920	Sat	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix/BvR)
M42d	17423	22-10	1100	Sat	Russian diplo/intel. Link ID 36882, Date 21st, Serial #68, Groups 270	FSK 200/1000	(AB/Danix)
M42d	15628	22-10	1110	Sat	Russian diplo/intel. Link ID 36882, Date 21st, Serial #68, Groups 270	FSK 200/1000	(AB/Danix)
M42d	13385	22-10	1120	Sat	Russian diplo/intel. Link ID 36882, Date 21st, Serial #68, Groups 270	FSK 200/1000	(AB/Danix)
M42d	22963	22-10	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	20461	22-10	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	18356	22-10	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB/Danix)
M42d	14986	23-10	0800	Sun	Russian diplo/intel. Link ID 45114, Date 21st, Serial #42, Groups 126	FSK 200/1000	(AB/Danix)
M42d	12219	23-10	0810	Sun	Russian diplo/intel. Link ID 45114, Date 21st, Serial #42, Groups 126	FSK 200/1000	(AB/Danix)
M42d	10574	23-10	0820	Sun	Russian diplo/intel. Link ID 45114, Date 21st, Serial #42, Groups 126	FSK 200/1000	(AB/Danix)
M42d	18919	23-10	0900	Sun	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix)
M42d	16268	23-10	0910	Sun	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix)
M42d	14486	23-10	0920	Sun	Russian diplo/intel. Link ID 45057, Date 7th, Serial #88, Groups 73	FSK 200/1000	(AB/Danix)
M42d	17423	23-10	1100	Sun	Russian diplo/intel. Link ID 36882, Date 21st, Serial #68, Groups 270	FSK 200/1000	(AB/Danix)
M42d	15628	23-10	1110	Sun	Russian diplo/intel. Link ID 36882, Date 21st, Serial #68, Groups 270	FSK 200/1000	(AB/Danix)
M42d	13385	23-10	1120	Sun	Russian diplo/intel. Link ID 36882, Date 21st, Serial #68, Groups 270	FSK 200/1000	(AB/Danix)
M42d	14859	23-10	1530	Sun	Russian diplo/intel. Link ID 20501, Date 20th, Serial #58, Groups 132	FSK 200/1000	(AB/Danix)
M42d	12184	23-10	1540	Sun	Russian diplo/intel. Link ID 20501, Date 20th, Serial #58, Groups 132	FSK 200/1000	(AB/Danix)
M42d	10273	23-10	1550	Sun	Russian diplo/intel. Link ID 20501, Date 20th, Serial #58, Groups 132	FSK 200/1000	(AB/Danix)
M42d	14859	24-10	1530	Mon	Russian diplo/intel. Link ID 20501, Date 20th, Serial #58, Groups 132	FSK 200/1000	(AB/Danix)
M42d	12184	24-10	1540	Mon	Russian diplo/intel. Link ID 20501, Date 20th, Serial #58, Groups 132	FSK 200/1000	(AB/Danix/MPJ)
M42d	10273	24-10	1550	Mon	Russian diplo/intel. Link ID 20501, Date 20th, Serial #58, Groups 132	FSK 200/1000	(AB/Danix/MPJ)
M42d	13426	25-10	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-FNL/Danix)

M42d	11116	25-10	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-FNL/Danix)
M42d	9175	25-10	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-FNL/Danix)
M42d	10521	25-10	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(Danix)
M42d	8044	25-10	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(Danix)
M42d	6941	25-10	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(Danix)
M42d	18546	26-10	0800	Wed	Russian diplo/intel. Link ID 45075, Date 26th, Serial #13, Groups 92	FSK 200/1000	(AB-GRC/Danix)
M42d	20018	26-10	0800	Wed	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(AB-GRC/Danix)
M42d	16231	26-10	0810	Wed	Russian diplo/intel. Link ID 45075, Date 26th, Serial #13, Groups 92	FSK 200/1000	(AB/Danix)
M42d	18325	26-10	0810	Wed	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(AB-GRC/Danix)
M42d	14629	26-10	0820	Wed	Russian diplo/intel. Link ID 45075, Date 26th, Serial #13, Groups 92	FSK 200/1000	(AB/Danix)
M42d	16248	26-10	0820	Wed	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(AB/Danix)
M42d	19476	26-10	0915	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(Danix)
M42d	17485	26-10	0925	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	15884	26-10	0935	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	22863	26-10	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-GRC/Danix)
M42d	20674	26-10	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-RUS/Danix)
M42d	18594	26-10	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB-RUS/Danix)
M42d	19268	27-10	0600	Thu	Russian diplo/intel. Message on link 32816	FSK 200/1000	(AB-HK/Sha-HK)
M42d	17548	27-10	0610	Thu	Russian diplo/intel. Message on link 32816	FSK 200/1000	(AB-HK/Sha-HK)
M42d	15779	27-10	0620	Thu	Russian diplo/intel. Message on link 32816	FSK 200/1000	(AB-HK/Sha-HK)
M42d	18546	27-10	0800	Thu	Russian diplo/intel. Link ID 45075, Date 26th, Serial #13, Groups 92	FSK 200/1000	(AB-GRC/Danix)
M42d	20048	27-10	0800	Thu	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(AB-I/Danix)
M42d	16231	27-10	0810	Thu	Russian diplo/intel. Link ID 45075, Date 26th, Serial #13, Groups 92	FSK 200/1000	(AB-GRC/Danix)
M42d	18325	27-10	0810	Thu	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(AB-I/Danix)
M42d	14629	27-10	0820	Thu	Russian diplo/intel. Link ID 45075, Date 26th, Serial #13, Groups 92	FSK 200/1000	(AB/Danix)
M42d	16248	27-10	0820	Thu	Russian diplo/intel. Link ID 16404, Date 11th, Serial #5, Groups 207	FSK 200/1000	(AB-I/Danix)
M42d	15841	27-10	1330	Thu	Russian diplo/intel. Null message on link 49237	FSK 200/1000	(AB/Danix)
M42d	13376	27-10	1340	Thu	Russian diplo/intel. Null message on link 49237	FSK 200/1000	(AB/Danix)
M42d	11108	27-10	1350	Thu	Russian diplo/intel. Null message on link 49237	FSK 200/1000	(AB/MPJ/Danix)
M42d	17423	29-10	1100	Sat	Russian diplo/intel. Link ID 36882, Date 28th, Serial #70, Groups 137	FSK 200/1000	(AB-GRC/Danix)
M42d	15628	29-10	1110	Sat	Russian diplo/intel. Link ID 36882, Date 28th, Serial #70, Groups 137	FSK 200/1000	(AB-GRC/Danix)
M42d	13385	29-10	1120	Sat	Russian diplo/intel. Link ID 36882, Date 28th, Serial #70, Groups 137	FSK 200/1000	(AB-GRC/Danix)
M42d	22963	29-10	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
M42d	20461	29-10	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
M42d	18356	29-10	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
M42d	17423	30-10	1100	Sun	Russian diplo/intel. Link ID 36882, Date 28th, Serial #70, Groups 137	FSK 200/1000	(AB/Danix)
M42d	15628	30-10	1110	Sun	Russian diplo/intel. Link ID 36882, Date 28th, Serial #70, Groups 137	FSK 200/1000	(AB/Danix)
M42d	13385	30-10	1120	Sun	Russian diplo/intel. Link ID 36882, Date 28th, Serial #70, Groups 137	FSK 200/1000	(AB/Danix)
M42d	14859	30-10	1530	Sun	Russian diplo/intel. Null msg on link ID 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	12184	30-10	1540	Sun	Russian diplo/intel. Null msg on link ID 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	10273	30-10	1550	Sun	Russian diplo/intel. Null msg on link ID 20501	FSK 200/1000	(AB/Danix)
M51a	3536	5-10	1815	Wed	FAV22: 5LGs, 5FGs, punctuation	CW	(F5JBR)
M51a	5838.5	13-10	0720	Thu	FAV22: 6LGs, 6FGs, punctuation //6825 kHz	CW	(F5JBR)
M51a	6825	13-10	0720	Thu	FAV22: 6LGs, 6FGs, punctuation //5838.5 kHz	CW	(F5JBR)

M51a	6825	19-10	1713	Wed	FAV22 i.p. DVXCW GERSF HQJUK XNWHR 37628 PMLAY	CW	(AB)
M51a	6825	23-10	0721	Sun	FAV22 i.p.: les participants attendent avec impatience le depart de notre epreuve nationale ...	CW	(AB)
M89	6793	1-10	0001	Sat	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	1-10	0001	Sat	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6793	1-10	1005	Sat	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	1-10	1005	Sat	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	5566	1-10	1008	Sat	V8LRU 8LRU DE CM3Z CM3Z K. VV GG0T GG0T DE CM3Z CM3Z K. VV J0RY J0RY DE CM3Z CM3Z K	CW	(JPL)
M89	5566	1-10	1632	Sat	i.p. QSA 2 K. VV HSU7 DE 8GQR K. R J50R DE C04T N QSA 2 QSA ? K	CW	(JPL)
M89	3642	1-10	1656	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	1-10	1658	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	1-10	1658	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4045	1-10	1659	Sat	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	5566	1-10	1724	Sat	i.p. 5AD6 64D3 ..3N 4N64 ... AR VV F9QZ DE 8GQR	CW	(JPL)
M89	4045	1-10	1743	Sat	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	4045	1-10	2009	Sat	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	3777	1-10	2011	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	1-10	2011	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4045	1-10	2134	Sat	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	3777	1-10	2139	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	1-10	2139	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	1-10	2140	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	1-10	2140	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	1-10	2142	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4045	1-10	2146	Sat	V NG3Y (X3) DE 2QLC (x2) //4858	CW	(JPL)
M89	4858	1-10	2146	Sat	V NG3Y (X3) DE 2QLC (x2) //4045	CW	(JPL)
M89	6793	2-10	0845	Sun	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	2-10	0845	Sun	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6666	2-10	0849	Sun	i.p. 0444455 YR5 YA/YA5YY094 5YY 5T5634X45NA5 4346	CW	(JPL)
M89	5810	2-10	0939	Sun	V NG3Y (X3) DE 2QLC (x2) //N/H	CW	(JPL)
M89	4045	2-10	1333	Sun	V NG3Y (X3) DE 2QLC (x2) //4858	CW	(JPL)
M89	4858	2-10	1333	Sun	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	3777	2-10	1353	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	2-10	1353	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	2-10	1354	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	2-10	1354	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5550	2-10	1515	Sun	i.p. NR 0915 CK 197 CK 5. 197 0114 1915 = .DTU 3UD. ..	CW	(JPL)
M89	6840	2-10	1520	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	3572	2-10	1524	Sun	i.p. 3U6A AU7D TAN3 4657 TNAD 675U AT4U ... AR	CW	(JPL)
M89	3300	2-10	1553	Sun	V P7YT (x3) DE 9ZGA (x2) R 31I QSA 2 .. K SK	CW	(JPL)
M89	3642	2-10	2310	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	8060	2-10	2312	Sun	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	5801	3-10	0758	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	3-10	0758	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6840	3-10	0820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	3-10	0820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	3-10	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	3-10	1020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	5810	3-10	1023	Mon	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	6793	3-10	1027	Mon	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	3-10	1027	Mon	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	5801	3-10	1028	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	3-10	1028	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	3-10	1035	Mon	i.p. 4NDU 567D UN53 4N6D UAT5. V DKG6 DE 3A7D //5801	CW	(JPL)
M89	3642	3-10	1619	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	3-10	1619	Mon	V DKG6 (x3) DE 3A7D (x2) //36422	CW	(JPL)
M89	6840	3-10	1620	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	3777	3-10	1634	Mon	V M8JF (x3) DE RIS9 (x2) //Not monitored	CW	(JPL)
M89	3378	3-10	1636	Mon	i.p. RPT 1P 9A K. R RPT 2P 9W BT 6TUA AR K. R RPT 1P 41W K	CW	(JPL)
M89	3777	6-10	2036	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)

M89	4532	6-10	2036	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	6-10	2039	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	7-10	1435	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	7-10	1435	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	7-10	1436	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	7-10	1436	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4720	7-10	1530	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	7-10	1745	Fri	DKG6 de 3A7D V	CW	(F5JBR)
M89	3642	7-10	1849	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	7-10	1850	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	7-10	1850	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	7-10	2120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	3777	7-10	2126	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	7-10	2126	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	7-10	2256	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	7-10	2256	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	6793	7-10	2258	Fri	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	7-10	2258	Fri	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	4131	7-10	2302	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	6793	8-10	1009	Sat	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	8-10	1009	Sat	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6840	8-10	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	8-10	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //8060	CW	(JPL)
M89	5801	8-10	1025	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	8-10	1025	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6639	8-10	1034	Sat	i.p. R GA = U..A U6DA 6ADT A4.. (Cont'd) III = 7TAU 4D3A (Cont'd)	CW	(JPL)
M89	6594	8-10	1049	Sat	i.p. 73ND 7A6U	CW	(JPL)
M89	6565	8-10	1051	Sat	i.p. 3A64 577N T5N4	CW	(JPL)
M89	3777	8-10	1515	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	8-10	1515	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	8-10	1520	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	8-10	1520	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3642	8-10	1538	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	8-10	1538	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4720	8-10	1830	Sat	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	8-10	1832	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	8-10	1832	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	8-10	1833	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	8-10	1833	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3777	9-10	1111	Sun	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	4532	9-10	1111	Sun	V M8JF (x3) DE RIS9 (x2) //3777 and 6793	CW	(JPL)
M89	6793	9-10	1111	Sun	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	5555	9-10	1117	Sun	i.p. 3UA7 T365 6ND3 AR K. 35W TDNA TDNA ...	CW	(JPL)
M89	3642	10-10	1624	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3787	10-10	1628	Mon	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	3305	10-10	1932	Mon	i.p. 47TN 4D7T 47U5 ... AR AR RPT R R ... R SK K	CW	(JPL)
M89	3642	10-10	1940	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	10-10	1942	Mon	i.p. 76DA DTU5 3AUN TU6N ... AR CQ 6/3.24 352... V M8JF DE RIS9	CW	(JPL)
M89	3767	10-10	1956	Mon	i.p. 437U NUTA N6T4 N6U7 A4UN ... AR R RPT ... 14.. 429 K. HR WK NR 720 K. R OK R K NIL	CW	(JPL)
M89	3642	10-10	2029	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	10-10	2029	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4131	10-10	2030	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3777	11-10	1407	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	11-10	1407	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4858	11-10	1410	Tue	i.p. DE G6YZ K. VVV QTR 10 QSA ? K	CW	(JPL)
M89	4860	11-10	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	11-10	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3777	14-10	2004	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	14-10	2004	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	14-10	2020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	14-10	2020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	10180	16-10	1230	Sun	DKG6 de 3A7D V	CW	(F5JBR)
M89	7602	16-10	1419	Sun	DKG6 de 3A7D V	CW	(F5JBR)

M89	4860	17-10	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	17-10	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	5801	17-10	1121	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	17-10	1121	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3777	17-10	1122	Mon	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	4532	17-10	1122	Mon	V M8JF (x3) DE RIS9 (x2) //3777 and 6793	CW	(JPL)
M89	6793	17-10	1122	Mon	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	3777	17-10	1619	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	17-10	1619	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	17-10	1628	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	17-10	1628	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4720	17-10	1630	Mon	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4131	17-10	1631	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4860	18-10	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	18-10	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3777	18-10	1123	Tue	V M8JF (x3) DE RIS9 (x2) //4532 / 6793 / 8060	CW	(JPL)
M89	4532	18-10	1123	Tue	V M8JF (x3) DE RIS9 (x2) //3777 / 6793 / 8060	CW	(JPL)
M89	6793	18-10	1123	Tue	V M8JF (x3) DE RIS9 (x2) //3777 / 4532 / 8060	CW	(JPL)
M89	8060	18-10	1123	Tue	V M8JF (x3) DE RIS9 (x2) //3777//4532//6793	CW	(JPL)
M89	5801	18-10	1127	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	18-10	1127	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3642	18-10	1629	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	18-10	1629	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	18-10	1630	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4860	18-10	1720	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	18-10	1720	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3777	18-10	1723	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	18-10	1723	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4720	18-10	1730	Tue	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4860	19-10	0020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	19-10	0020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3642	19-10	0031	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	19-10	0031	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3642	21-10	0054	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	21-10	0054	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3642	21-10	1311	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	21-10	1313	Fri	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	3777	21-10	1729	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	21-10	1729	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4720	21-10	1730	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	6840	22-10	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	22-10	1020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6793	22-10	1021	Sat	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	22-10	1021	Sat	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10180	22-10	1032	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	22-10	1120	Sat	V M8JF (x3) DE RIS9 (x2) //6793 and 3777	CW	(JPL)
M89	4532	22-10	1120	Sat	V M8JF (x3) DE RIS9 (x2) //6793 and 3777	CW	(JPL)
M89	4860	22-10	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6793	22-10	1120	Sat	V M8JF (x3) DE RIS9 (x2) //4532 and 3777	CW	(JPL)
M89	6840	22-10	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3642	22-10	1650	Sat	V DKG6 (x3) DE 3A7D (x2) //N/H	CW	(JPL)
M89	3777	22-10	1651	Sat	V M8JF (x3) DE RIS9 (x2) //6793 and 3777	CW	(JPL)
M89	4532	22-10	1651	Sat	V M8JF (x3) DE RIS9 (x2) //6793 and 3777	CW	(JPL)
M89	4860	23-10	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	23-10	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3777	23-10	1126	Sun	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	4532	23-10	1126	Sun	V M8JF (x3) DE RIS9 (x2) //3777 and 6793	CW	(JPL)
M89	6793	23-10	1126	Sun	V M8JF (x3) DE RIS9 (x2) //3777//4532	CW	(JPL)
M89	3642	23-10	1535	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	23-10	1536	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	23-10	1536	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4720	23-10	1730	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	23-10	2111	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	23-10	2112	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	23-10	2112	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4720	23-10	2130	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)

M89	3642	23-10	2138	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	23-10	2138	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	23-10	2140	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	24-10	0022	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	24-10	0022	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	6793	24-10	0811	Mon	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	6796	24-10	0813	Mon	i.p. 645D DU7N 77T5 ...	CW	(JPL)
M89	6808	24-10	0815	Mon	i.p. RMKS 7267 TO 7595 K. R R = DD7A ...	CW	(JPL)
M89	6688	24-10	0818	Mon	05UR DE F4PY K. ... QSA 2 QSA ? K. R ... HR 7G GA GA NR 071/EX CK 99 .6 (see N&O 229)	CW	(JPL)
M89	6734	24-10	0849	Mon	(i.p. U6NA 5447 AN.N 34AA T535 ... AR AR K. R RPT GA	CW	(JPL)
M89	3642	24-10	1333	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	24-10	1334	Mon	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	3651	24-10	1340	Mon	i.p. UNU7 44T5 3ND7 44DT 4444 6535 DA46 III = A775 7635 N63T 56TD ...	CW	(JPL)
M89	3733	24-10	1353	Mon	i.p. R R QSA 2 K. RPT R QSL 2157 K. HR F GA R F NR 4015/EX 2158 RMKS (see N&O 229)	CW	(JPL)
M89	7602	24-10	1425	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3642	24-10	1426	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	24-10	1548	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	24-10	1548	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4720	25-10	1230	Tue	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3777	25-10	1233	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	25-10	1233	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3777	25-10	1413	Tue	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	3642	25-10	1414	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4860	26-10	1620	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	26-10	1620	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3642	26-10	1623	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	26-10	1624	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	26-10	1624	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4720	26-10	1630	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	26-10	1631	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	26-10	1631	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	26-10	1639	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4860	26-10	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	26-10	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	26-10	1730	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4532	26-10	2216	Wed	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6793	26-10	2216	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3642	26-10	2218	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4860	26-10	2220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	26-10	2220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	26-10	2230	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	6793	27-10	0958	Thu	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	27-10	0958	Thu	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	7602	27-10	1431	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4720	27-10	2030	Thu	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	27-10	2033	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	27-10	2033	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4860	28-10	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	28-10	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3777	28-10	1125	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	28-10	1125	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	28-10	1634	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	28-10	1634	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	28-10	1812	Fri	i.p. 76TN U75T ... AR CQ 06/1845 3315 5739 MSG NR 1062 CK 96 40 1029 0210 ...	CW	(JPL)
M89	4860	28-10	1820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	28-10	1820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3642	28-10	1823	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4720	28-10	1830	Fri	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4860	28-10	2020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //N/H	CW	(JPL)
M89	3777	28-10	2027	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	28-10	2027	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4720	28-10	2030	Fri	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)

M90	2085	5-10	1203	Wed	X4GO X4GO AR	CW	(F5JBR)
M90	4133	5-10	1204	Wed	i.p. 5 1430 158 X4GO = VCTHD ORZNA ZEJBG MJA à X4GO	CW	(F5JBR)
M90	4776	6-10	0655	Thu	K2TC clg VBNS (general call) and radio checks with JWX7 DTJ I2TG U3S3 followed by messages	CW	(F5JBR)
M90	4776	6-10	0724	Thu	Switched to voice after sending 457 in CW	USB	(F5JBR)
M90	4767	6-10	0823	Thu	F8JC wkg KRV4 radio checks and sends 457. After that s/off	CW	(F5JBR)
M90	4852	13-10	0622	Thu	Exercise. CQXJ wkg DNSF, XVSQ, TSXS, ICFV, PJP6, EHBJ. Radio checks and coded messages	CW	(F5JBR)
M90	4852	13-10	0725	Thu	XXX DEBUKCE-176 RELAX-692 KNIHA-967. Sends 542 862 to activate voice traffic.	CW	(F5JBR)
M90	4852	13-10	0726	Thu	Radio checks and coded messages in Czech	USB	(F5JBR)
M90	4852	18-10	0602	Tue	CQXJ wkg DNSF, XVSQ, TSXS, ICFV, PJP6, EHBJ	CW	(F5JBR)
M90	3316	18-10	0644	Tue	CQXJ wkg DNSF, XVSQ, TSXS, ICFV, PJP6, EHBJ	CW	(F5JBR)
M90	3376	18-10	0809	Tue	F4DH clg EGC3 (collective call) and wkg D3CJ, WK2Z, HT4R, TCP6. F4DH sends: 209 112 (probably meaning QSY as they changed freq after that)	CW	(F5JBR)
M90	4972	18-10	0838	Tue	F4DH clg EGC3 (collective call) and wkg D3CJ, WK2Z, HT4R, TCP6	CW	(F5JBR)
M90	3361	19-10	0607	Wed	XQ2H wkg DAZ4, KHNZ, WV5M, N7G6	CW	(F5JBR)
M90	4972	20-10	0609	Thu	M5L5 wkg K8FP, K8D8, G6CS, AR4L. Net station sends 987, then switches to voice traffic	CW	(F5JBR)
M90	4972	20-10	0638	Thu	Czech Army net. Voice traffic	USB	(F5JBR)
M90	5375	20-10	0657	Thu	M5L5 wkg K8FP, K8D8, G6CS, AR4L. Net station sends 987, then switches to voice traffic	CW	(F5JBR)
M90	3316	25-10	0740	Tue	CQXJ wkg DNSF, XVSQ, TSXS, PJP6, V7M6, MXV5	CW	(F5JBR)
M95	4243	1-10	0942	Sat	773 N44 5AA 75U 3U7 354 373 4T7 34T ... AR //9054 kHz	CW	(JPL-J)
M95	9054	1-10	0942	Sat	773 N44 5AA 75U 3U7 354 373 4T7 34T ... AR //4243 kHz	CW	(JPL-J)
M95	4243	2-10	0915	Sun	i.p. A HR 7G GA NR 04. 185 35 1002 1620 = UTU TTU 3A6 3A4 TTU 773 ... //9054 kHz	CW	(JPL-J)
M95	9054	2-10	0915	Sun	i.p. A HR 7G GA NR 04. 185 35 1002 1620 = UTU TTU 3A6 3A4 TTU 773 ... //4243 kHz	CW	(JPL-J)
M95	4283	2-10	0947	Sun	XSV70 i.p. NR 053 CK 21 49 1002 1700 467 63N 5U6 7UN 34T 4D5 ...	CW	(JPL-J)
M95	4283	2-10	1335	Sun	XSV70 i.p. 75D 4DU TT6 773 3AD 353 4T3 446 ... AR	CW	(JPL-J)
M95	4283	3-10	1002	Mon	XSV70 i.p. MSG AGN GA Nr 190 CK .6 .5 1 1003 1800 NN5 N65 6T5 6T6 TA6 N5A ... //7553 kHz	CW	(JPL-HK)
M95	7553	3-10	1002	Mon	XSV70 i.p. MSG AGN GA Nr 190 CK .6 .5 1 1003 1800 NN5 N65 6T5 6T6 TA6 N5A ... //4283 kHz	CW	(JPL-HK)
M95	9054	7-10	2347	Fri	V HR MSG TOYR PSE CY NR 056 CK 23 35 1008 0624 = 5TD UTT TTD 3U4 7T. N44 3A4 356 4A5 N3D ...	CW	(JPL-HK)
M95	9054	8-10	0001	Sat	i.p. AR MSG AGN NR 15 CK 079 35 1008 0704 = UTU TTD 3U4 3A4 TTU 773 35A U4A 353 ...	CW	(JPL-HK)
M95	8073	8-10	0007	Sat	V BNGC (x3) DE XSV85 (x2) HR MSG GA NR 0850 CK 48 35 1008 0706 = TAT 6. TTD N53 TT6 N54 ...	CW	(JPL-HK)
M95	8073	9-10	1140	Sun	V BNGC (x3) DE XSV85 (x2)	CW	(JPL-HK)
M95	4243	9-10	1148	Sun	VV HR 7G TOYR PSE CY NR 09 19 35 1009 1525 = D UT. TT. 3UD ... //9054 kHz	CW	(JPL-HK)
M95	9054	9-10	1148	Sun	VV HR 7G TOYR PSE CY NR 09 19 35 1009 1525 = D UT. TT. 3UD ... //4243 kHz	CW	(JPL-HK)
M95	8073	17-10	1142	Mon	V BNGC (x3) DE XSV85 (x2) HR 7GS GA PSE CY NR 0909 CK 45 35 1017 1615 = TTN 5UT A7N5 ...	CW	(JPL-HK)
M95	4243	17-10	1149	Mon	i.p. TTA TT3 773 344 63D AR. A HR 7G AGN GA. NR 34 CK 118 35 1017 1557 = UTU TA7 3U6 3A4 TTU 773 ... //9054 kHz	CW	(JPL-HK)
M95	9054	17-10	1149	Mon	i.p. TTA TT3 773 344 63D AR. A HR 7G AGN GA. NR 34 CK 118 35 1017 1557 = UTU TA7 3U6 3A4 TTU 773 ... //4243 kHz	CW	(JPL-HK)
M95	8073	18-10	1144	Tue	V BNGC (x3) DE XSV85 (x2) HR 7GS GA (x2) NR 0917 CK 84 35 1018 1606 = TAT N5U TAD N53 TAD N54 7TT TA7 ...	CW	(JPL-HK)
M95	4243	18-10	1156	Tue	i.p. A HR 7G GA NR 36 CK 106 35 1018 1554 = UTU TAD 3U6 3A4 TTU TT6 733 5AU ... //9054 kHz	CW	(JPL-HK)

M95	9054	18-10	1156	Tue	i.p. A HR 7G GA NR 36 CK 106 35 1018 1554 = UTU TAD 3U6 3A4 TTU TT6 733 5AU ... //4243 kHz	CW	(JPL-HK)
M95	9054	20-10	2348	Thu	V HR MSG TOYR PSE CY NR 053 CK 25 35 1021 0611 = UT5 TUA 3U4 3A4 TTA TTU TT3 773 ...	CW	(JPL-HK)
M95	8073	21-10	0009	Fri	V BNGC (x3) DE XSV85 (x2) HR 7G PSE CY NR 0937 CK 152 35 1021 0657 = TUA 3U4 3A4 TAU 773 354 374 4T6 NN3 AR AR	CW	(JPL-HK)
M95	5555	22-10	1123	Sat	i.p. 75TU AT5A AD5U D437 3DT5 DUN6 ... AR. MSG NR 05/CCK CK 60 14 1022 1900 RMKS CQ = R WTV R OWT =	CW	(JPL-HK)
M95	8073	23-10	1136	Sun	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0947 CK 158 35 1023 1549 = TU3 3U6 3AN 3U7 TAU 773 ...	CW	(JPL-HK)
M95	4243	23-10	1148	Sun	V HR 7G TOYR PSE CY NR 087 CK 23 35 1023 1534 = 5TD UTT TU3 3UT 7T3 7TA N44 3A4 ... //9054 kHz	CW	(JPL-HK)
M95	9054	23-10	1148	Sun	V HR 7G TOYR PSE CY NR 087 CK 23 35 1023 1534 = 5TD UTT TU3 3UT 7T3 7TA N44 3A4 ... //4243 kHz	CW	(JPL-HK)
M95	9054	23-10	2351	Sun	i.p. MSG AGN NR 067 17 35 1024 0610 = NR 067 CK 17 35 1024 ...	CW	(JPL-HK)
M95	9054	24-10	0001	Mon	i.p. AR 7DA7 NR 088 .. 35 1024 0637 = 5TD UTT TU4 ...	CW	(JPL-HK)
M95	8073	24-10	0011	Mon	XSV85 i.p. TT5 4DT 4D6 TU7 773 ... AR	CW	(JPL-HK)
M95	8073	25-10	1134	Tue	V BNGC (x3) DE XSV85 (x2) HR MSG GA NR 0951 CK 20 35 ...	CW	(JPL-HK)
M95	4243	25-10	1148	Tue	VVV = HR MSG TOYR PSE CY NR 091 CK 25 35 1025 1535 = 5TD UTT TU5 3U6 3A4 353 4A5 N3D 4TU //9054 kHz	CW	(JPL-HK)
M95	9054	25-10	1148	Tue	VVV = HR MSG TOYR PSE CY NR 091 CK 25 35 1025 1535 = 5TD UTT TU5 3U6 3A4 353 4A5 N3D 4TU //4243 kHz	CW	(JPL-HK)
M95	9054	25-10	2353	Tue	i.p. NR 092 CK 17 35 1026 0650 = 4TD UTT TU6 3U4 ...	CW	(JPL-HK)
M95	8073	26-10	0009	Wed	XSV85 i.p. TU3 773 35U 4T6 ... AR AR	CW	(JPL-HK)
M95	9054	26-10	2349	Wed	VV HR MSG TOYR PSE CY NR 076 CK 20 35 1027 0603 = TT5 TU7 3U4 3U4 TTA TTU TT3 773 ...	CW	(JPL-HK)
M95	9054	27-10	0001	Thu	i.p. 357 373 ... AR	CW	(JPL-HK)
M95	8073	27-10	0007	Thu	V BNGC (x3) DE XSV85 (x2) HR MSG GA NR 0954 CK 101 35 1027 0709 = TU7 3U4 3A4 TAU 773 35U 4T3 NN3 ...	CW	(JPL-HK)
M95	7553	27-10	0954	Thu	XSV70 i.p. 445 N.D 436 467 ... ZNN SK	CW	(JPL-HK)
M95	8073	27-10	1141	Thu	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0955 CK 349 35 1027 = .. 3U6 3AN 3U7 TAU 773 TA7 773 ...	CW	(JPL-HK)
M95	4243	27-10	1150	Thu	VVV HR MSG TOYR PSE CY NR 095 CK 31 35 1027 15U8 = 5T. UTT TU7 3U6 7TA N44 3A4 354 ... //9054 kHz	CW	(JPL-HK)
M95	9054	27-10	1150	Thu	VVV HR MSG TOYR PSE CY NR 095 CK 31 35 1027 15U8 = 5T. UTT TU7 3U6 7TA N44 3A4 354 ... //4243 kHz	CW	(JPL-HK)
M95	4243	27-10	1225	Thu	i.p. 4 messages //9054 kHz	CW	(AB-HK)
M95	9054	27-10	1225	Thu	i.p. 4 messages //4243 kHz	CW	(AB-HK)
M95	4243	28-10	1150	Fri	V HR MSG TOYR PSE CY NR 083 CK 21 35 1027 1605 = UT5 TUD 3U6 3A4 TTA TTU TT3 773 353 4TA ... //9054 kHz	CW	(JPL-HK)
M95	9054	28-10	1150	Fri	V HR MSG TOYR PSE CY NR 083 CK 21 35 1027 1605 = UT5 TUD 3U6 3A4 TTA TTU TT3 773 353 4TA ... //4243 kHz	CW	(JPL-HK)
M95	4243	28-10	1201	Fri	i.p. 7G AGN NR 099 CK 19 35 1029 1605 = TT TU TA4 ..T5 3A4 35U //9054 kHz	CW	(JPL-HK)
M95	9054	28-10	1201	Fri	i.p. 7G AGN NR 099 CK 19 35 1029 1605 = TT TU TA4 ..T5 3A4 35U //4243 kHz	CW	(JPL-HK)
MX	10872.2	7-10	0840	Fri	Beacon F, Vladivostok	CW	(EW)
MX	10872.3	7-10	0841	Fri	Beacon K, Petropavlovsk	CW	(EW)
MX	10872.4	7-10	0843	Fri	Beacon M, Magadan	CW	(EW)
MX	8495.3	7-10	0847	Fri	Beacon K, Petropavlovsk	CW	(EW)
MX	13528.3	7-10	0855	Fri	Beacon K, Petropavlovsk	CW	(EW)
MX	8497.8	7-10	1803	Fri	Beacon L, St Petersburg	CW	(AB)
MX	5156.8	12-10	0500	Wed	Beacon L, St. Petersburg	CW	(AAI)
MX	5156.8	12-10	0500	Wed	Beacon L, St. Petersburg	CW	(AAI)
MX	5153.6	15-10	0128	Sat	Beacon D, Sevastopol	CW	(CK)
MX	5154	15-10	1835	Sat	Beacon C, Moscow	CW	(CK)

MX	5156.8	15-10	1835	Sat	Beacon L, St Petersburg	CW	(CK)
MX	6928	19-10	1726	Wed	Beacon V	CW	(AB)
MX	13527.9	21-10	1638	Fri	Beacon S, Sevromorsk	CW	(AB)
MX	10871.7	21-10	1639	Fri	Beacon D, Sevastopol	CW	(AB)
MX	10872	21-10	1639	Fri	Beacon C, Moscow	CW	(AB)
MX	10971.9	21-10	1639	Fri	Beacon S, Sevromorsk	CW	(AB)
MX	5156.8	21-10	1642	Fri	Beacon L, St Petersburg	CW	(AB)
MX	8497.8	21-10	1642	Fri	Beacon L, St Petersburg	CW	(AB)
MX	13528.2	27-10	0613	Thu	Beacon F Vladivostok	CW	(AB-HK)
MX	13528.4	27-10	0613	Thu	Beacon M Magadan	CW	(AB-HK)
MX	16332.4	27-10	0614	Thu	Beacon M Magadan	CW	(AB-HK)
MX	13528.2	28-10	0503	Fri	Beacon F, Vladivostok	CW	(AB-HK)
MX	13528.4	28-10	0503	Fri	Beacon M, Magadan	CW	(AB-HK)
MX	16332.2	28-10	0504	Fri	Beacon F, Vladivostok	CW	(AB-HK)
MX	16332.3	28-10	0504	Fri	Beacon K, Petropavlovsk	CW	(AB-HK)
MX	16332.4	28-10	0504	Fri	Beacon M, Magadan	CW	(AB-HK)
MX	10871.3	28-10	1159	Fri	Beacon K, Petropavlovsk	CW	(AB-AUS)
MX	7039.4	28-10	1200	Fri	Beacon M, Magadan	CW	(AB-AUS)
MX	8495.4	28-10	1200	Fri	Beacon M, Magadan	CW	(AB-AUS)
MX	5154.4	28-10	1201	Fri	Beacon M, Magadan	CW	(AB-AUS)
Q26	9054	7-10	2342	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	8-10	0006	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	9-10	1128	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	9-10	1143	Sun	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	9-10	1143	Sun	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	17-10	1131	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	18-10	1131	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	19-10	0010	Wed	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	20-10	2323	Thu	Messages i.p.	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	21-10	0001	Fri	Messages i.p.	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	23-10	1131	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	23-10	1142	Sun	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	23-10	1142	Sun	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	25-10	1130	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	25-10	1142	Tue	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	25-10	1142	Tue	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	26-10	2343	Wed	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	27-10	0002	Thu	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	27-10	1131	Thu	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	27-10	1144	Thu	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	27-10	1144	Thu	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	28-10	1142	Fri	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	28-10	1142	Fri	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)

RADv	2345	2-10	1645	Sun	Tracking (Russian Voice)	USB	(F5JBR)
RMv	4872	2-10	0448	Sun	SNOLT-91 clg OLMAT-39 VERANDA-39 BALK-76 ARUKA-54 radio checks	USB	(F5JBR)
RMv	4455	2-10	0501	Sun	ESSIP-19 clg SIBIR-33	USB	(F5JBR)
RMv	3760	2-10	1713	Sun	KARMA-90 clg SIGMA-02 MILBUR-92 NASTA-03 SIGIT-58 radio checks	USB	(F5JBR)
RMv	3799	2-10	1732	Sun	HAGAN-56 clg ASTRAN-79	USB	(F5JBR)
RMv	5333.5	12-10	1345	Wed	VESNA-9 clg NABIL-83 followed by traffic in AT3004D/USB	USB	(F5JBR)
RMv	4343	12-10	1838	Wed	NIVOK-67 clg PRITO-43 GAZIKTA-43 ZATOK-26. Radio checks	LSB	(F5JBR)
RMv	4792.5	13-10	0500	Thu	SVARAK-14 clg	USB	(F5JBR)
RMv	4128	13-10	0511	Thu	PRIDVAT-94 clg MORAD-28. Radio checks	USB	(F5JBR)
RMv	7950	13-10	1334	Thu	BUKLIN-94 clg ANOD-35 MAIDAN-97. Radio checks	USB	(F5JBR)
RNV	4387	6-10	0634	Thu	VESTNIK (RMP) clg KOMUNA (RGX80)	USB	(F5JBR)
S06	4756	1-10	2000	Sat	614 614 614 00000	USB	(AB/ES/HFD)
S06	4059	1-10	2100	Sat	614 614 614 00000	USB	(AB/ES/HFD)
S06	9496	7-10	2000	Fri	761 761 761 00000	USB	(AB/Danix/HFD)
S06	6924	7-10	2100	Fri	761 761 761 00000 OFDM-112 mixed into the same audio feed	USB	(AB/Danix/HFD)
S06	4756	15-10	2000	Sat	614 614 614 00000	USB	(AB)
S06	4059	15-10	2100	Sat	614 614 614 00000	USB	(AB)
S06	20312	20-10	0830	Thu	842 160 37 55424 15740 76322 ... 94057 72728 04117 160 37 0000	USB	(AB-I)
S06	16237	20-10	0930	Thu	842 160 37 55424 15740 76322 ... 94057 72728 04117 160 37 0000	USB	(AB-I)
S06	20312	21-10	0830	Fri	842 160 37 55424 15740 76322 ... 94057 72728 04117 160 37 0000	USB	(AB-I/HFD)
S06	16237	21-10	0930	Fri	842 160 37 55424 15740 76322 ... 94057 72728 04117 160 37 0000	USB	(AB-I/HFD)
S06	9491	21-10	2000	Fri	761 761 761 00000	USB	(AB)
S06	6924	21-10	2100	Fri	761 761 761 00000	USB	(AB)
S06s	10350	1-10	0800	Sat	254 930 6 49294 38064 31724 37324 39316 35660 930 6 00000	USB	(AB/ES)
S06s	8520	1-10	0810	Sat	254 930 6 49294 38064 31724 37324 39316 35660 930 6 00000	USB	(AB)
S06s	9220	3-10	0830	Mon	371 409 5 30042 38765 42363 90790 42803 409 5 00000	USB	(AB/ES)
S06s	8270	3-10	0840	Mon	371 409 5 30042 38765 42363 90790 42803 409 5 00000	USB	(AB)
S06s	14580	3-10	0900	Mon	872 435 6 38003 44266 83620 46219 35814 30769 435 6 00000	USB	(AB/ES)
S06s	13165	3-10	0910	Mon	872 435 6 38003 44266 83620 46219 35814 30769 435 6 00000	USB	(AB)
S06s	9145	3-10	1200	Mon	831 296 5 40328 35929 43234 33940 48075 296 5 00000	USB	(AB/ES)
S06s	11460	3-10	1210	Mon	831 296 5 40328 35929 43234 33940 48075 296 5 00000	USB	(AB)
S06s	15855	4-10	0600	Tue	438 962 5 49314 47194 40583 33705 32293 962 5 00000	USB	(AB/ES)
S06s	16485	4-10	0610	Tue	438 962 5 49314 47194 40583 33705 32293 962 5 00000	USB	(AB)
S06s	5760	4-10	0700	Tue	374 958 6 01329 71100 89778 88848 20148 76011 958 6 00000	USB	(AB)
S06s	6930	4-10	0715	Tue	374 958 6 01329 71105 89778 88848 20148 36011 958 6 00000	USB	(AB/ES)
S06s	7425	4-10	0730	Tue	427 931 5 72578 50903 91911 26248 57583 931 5 00000	USB	(AB/ES)
S06s	11560	4-10	0740	Tue	427 931 5 72578 50903 91911 26248 57583 931 5 00000	USB	(AB)
S06s	11635	4-10	0800	Tue	352 860 7 10388 43493 13222 56835 18181 49602 38307 860 7 00000	USB	(AB/ES)
S06s	10420	4-10	0810	Tue	352 860 7 10388 43493 13222 56835 18181 49602 38307 860 7 00000	USB	(AB)
S06s	6410	4-10	1000	Tue	893 412 5 24181 60127 11736 86781 51099 412 5 00000	USB	(AB/ES)

S06s	7340	4-10	1010	Tue	893 412 5 24181 60127 11736 86781 51099 412 5 00000	USB	(AB)
S06s	6190	4-10	1100	Tue	754 298 6 47225 62914 67608 65725 25328 40546 00000	USB	(ES)
S06s	7230	4-10	1110	Tue	754 298 6 47225 62914 67608 65725 25328 40546 00000	USB	(ES)
S06s	7242	4-10	1510	Tue	537 291 6 44266 84320 33836 34717 37795 40228 291 6 00000	USB	(AB)
S06s	9296	5-10	0530	Wed	464 890 5 49314 47194 40583 33705 32293 890 5 00000	USB	(AB/ES)
S06s	10365	5-10	0540	Wed	464 890 5 49314 47194 40583 33705 32293 890 5 00000	USB	(AB)
S06s	11530	5-10	0730	Wed	745 890 6 47225 04855 72189 55929 90284 38575 890 6 00000	USB	(AB/ES/HFD)
S06s	12140	5-10	0740	Wed	745 890 6 47225 04855 72189 55929 90284 38575 890 6 00000	USB	(AB/HFD)
S06s	8630	5-10	0820	Wed	471 893 5 10388 43493 13222 56835 18181 893 5 00000	USB	(AB)
S06s	9255	5-10	0830	Wed	471 893 5 10388 43493 13222 56835 18181 893 5 00000	USB	(AB/ES)
S06s	13365	5-10	1000	Wed	729 801 5 49314 47194 40583 33705 32293 801 5 00000	USB	(AB)
S06s	14505	5-10	1010	Wed	729 801 5 49314 47194 40583 33705 32293 801 5 00000	USB	(AB)
S06s	5744	6-10	0900	Thu	624 905 7 37325 54028 93793 32567 30061 30603 48304 905 7 00000	USB	(AB)
S06s	6524	6-10	0910	Thu	624 905 7 37325 54028 93793 32567 30061 30603 48304 905 7 00000	USB	(AB/ES)
S06s	9081	6-10	0930	Thu	314 960 5 38023 36140 46830 49785 33120 00000	USB	(ES)
S06s	12140	7-10	0930	Fri	516 832 7 46062 68672 07478 39585 30485 96632 52537 832 7 00000	USB	(AB)
S06s	13515	7-10	0940	Fri	516 832 7 46062 68672 07478 39585 30485 96632 52537 832 7 00000	USB	(AB)
S06s	9220	10-10	0830	Mon	371 409 5 30042 38765 42363 90790 42803 409 5 00000	USB	(AB)
S06s	8270	10-10	0840	Mon	371 409 5 30042 38765 42363 90790 42803 409 5 00000	USB	(AB)
S06s	14580	10-10	0900	Mon	872 435 6 38003 44266 83620 46219 35814 30769 435 6 00000	USB	(AB)
S06s	13165	10-10	0910	Mon	872 435 6 38003 44266 83620 46219 35814 30769 435 6 00000	USB	(AB)
S06s	9145	10-10	1200	Mon	831 296 5 40328 35929 43234 33940 48075 296 5 00000	USB	(AB)
S06s	11460	10-10	1210	Mon	831 296 5 40328 35929 43234 33940 48075 296 5 00000	USB	(AB)
S06s	15855	11-10	0600	Tue	438 962 5 49314 47194 40583 33705 32293 962 5 00000	USB	(AB)
S06s	16485	11-10	0610	Tue	438 962 5 49314 47194 40583 33705 32293 962 5 00000	USB	(AB)
S06s	5760	11-10	0700	Tue	374 958 6 01329 71100 89778 88848 20148 76011 958 6 00000	USB	(AB)
S06s	6930	11-10	0715	Tue	374 958 6 01329 71105 89778 88848 20148 36011 958 6 00000	USB	(AB)
S06s	7425	11-10	0730	Tue	427 931 5 72578 50903 91911 26248 57583 931 5 00000	USB	(AB)
S06s	11560	11-10	0740	Tue	427 931 5 72578 50903 91911 26248 57583 931 5 00000	USB	(AB)
S06s	11635	11-10	0800	Tue	352 860 7 10388 43493 13222 56835 18181 49602 38307 860 7 00000	USB	(AB)
S06s	10420	11-10	0810	Tue	352 860 7 10388 43493 13222 56835 18181 49602 38307 860 7 00000	USB	(AB)
S06s	6410	11-10	1000	Tue	893 412 5 24181 60127 11736 86781 51099 412 5 00000	USB	(AB)
S06s	7340	11-10	1010	Tue	893 412 5 24181 60127 11736 86781 51099 412 5 00000	USB	(AB)

S06s	6190	11-10	1100	Tue	754 298 6 47225 62914 67804 65725 2x328 40546 298 6 00000 (??? very poor)	USB	(AB)
S06s	7230	11-10	1110	Tue	754 298 6 47225 62914 67804 65725 2x328 40546 298 6 00000 (??? very poor)	USB	(AB)
S06s	6464	11-10	1500	Tue	537 291 6 44266 84320 33836 34717 37795 40228 291 6 00000	USB	(AB/ES)
S06s	7242	11-10	1510	Tue	537 291 6 44266 84320 33836 34717 37795 40228 291 6 00000	USB	(AB)
S06s	9296	12-10	0530	Wed	464 890 5 49314 47194 40583 33705 32293 890 5 00000	USB	(AB)
S06s	10365	12-10	0540	Wed	464 890 5 49314 47194 40583 33705 32293 890 5 00000	USB	(AB)
S06s	11530	12-10	0730	Wed	745 890 6 47225 04855 72189 55929 90284 38575 890 6 00000	AM	(AB)
S06s	12140	12-10	0740	Wed	745 890 6 47225 04855 72189 55929 90284 38575 890 6 00000	AM	(AB)
S06s	8630	12-10	0820	Wed	471 893 5 10388 43493 13222 56835 18181 893 5 00000	USB	(AB)
S06s	9255	12-10	0830	Wed	471 893 5 10388 43493 13222 56835 18181 893 5 00000	USB	(AB)
S06s	13365	12-10	1000	Wed	729 801 5 49314 47194 40583 33705 32293 801 5 00000	USB	(AB/ES)
S06s	14505	12-10	1010	Wed	729 801 5 49314 47194 40583 33705 32293 801 5 00000	USB	(AB)
S06s	5744	13-10	0900	Thu	624 905 7 37325 54028 93793 32567 30061 30603 48304 905 7 00000	USB	(AB)
S06s	6524	13-10	0910	Thu	624 905 7 37325 54028 93793 32567 30061 30603 48304 905 7 00000	USB	(AB)
S06s	9081	13-10	0930	Thu	314 960 5 38023 36140 46830 49785 33120 960 5 00000	USB	(AB)
S06s	10514	13-10	0940	Thu	314 960 5 38023 36140 46830 49785 33120 960 5 00000	USB	(AB)
S06s	14212	13-10	1210	Thu	425 983 6 29791 59737 38209 18844 51398 70283 983 6 00000	USB	(AB)
S06s	12140	14-10	0930	Fri	516 832 7 46062 68672 07478 39585 30485 96632 52537 832 7 00000	USB	(AB)
S06s	13515	14-10	0940	Fri	516 832 7 46062 68672 07478 39585 30485 96632 52537 832 7 00000	USB	(AB/ES)
S06s	9220	17-10	0830	Mon	371 496 5 37947 39747 31323 31829 47694 496 5 00000	USB	(AB)
S06s	8270	17-10	0840	Mon	371 496 5 37947 39747 31323 31829 47694 496 5 00000	USB	(AB)
S06s	14580	17-10	0900	Mon	872 504 6 32391 38632 35044 41354 31663 41731 504 6 00000	USB	(AB)
S06s	13165	17-10	0910	Mon	872 504 6 32391 38632 35044 41354 31663 41731 504 6 00000	USB	(AB)
S06s	9145	17-10	1200	Mon	831 509 6 46387 30197 31717 38137 34282 42358 509 6 00000	USB	(AB)
S06s	11460	17-10	1210	Mon	831 509 6 46387 30197 31717 38137 34282 42358 509 6 00000	USB	(AB)
S06s	15855	18-10	0600	Tue	438 912 5 63923 15287 03823 41735 04625 912 5 00000	USB	(AB/ES)
S06s	16485	18-10	0610	Tue	438 912 5 63923 15287 03823 41735 04625 912 5 00000	USB	(AB)
S06s	5760	18-10	0700	Tue	374 802 5 49396 39265 32053 81782 47381 802 5 00000	USB	(AB/ES)
S06s	6930	18-10	0715	Tue	374 802 5 49396 39265 32053 81782 47381 802 5 00000	USB	(AB)
S06s	7425	18-10	0730	Tue	427 589 6 41645 35709 36414 49790 32628 39730 589 6 00000	USB	(AB)
S06s	11560	18-10	0740	Tue	427 589 6 41645 35709 36414 49790 32628 39730 589 6 00000	USB	(AB/ES)
S06s	11635	18-10	0800	Tue	352 409 6 39613 39041 39005 35178 45024 35682 409 6 00000	USB	(AB)
S06s	10420	18-10	0810	Tue	352 409 6 39613 39041 39005 35178 45024 35682 409 6 00000	USB	(AB)

S06s	6410	18-10	1000	Tue	893 420 5 37947 39747 31323 31829 47694 420 5 00000	USB	(AB/ES)
S06s	7340	18-10	1010	Tue	893 420 5 37947 39747 31323 31829 47694 420 5 00000	USB	(AB)
S06s	6190	18-10	1100	Tue	754 821 6 39249 33434 30345 88456 34983 36714 821 6 00000	USB	(AB/ES)
S06s	7230	18-10	1110	Tue	754 821 6 39249 33434 30345 88456 34983 36714 821 6 00000	USB	(AB)
S06s	6464	18-10	1500	Tue	537 421 6 34539 37126 43003 40894 83332 38868 421 6 00000	USB	(AB)
S06s	7242	18-10	1510	Tue	537 421 6 34539 37126 43003 40894 83332 38868 421 6 00000	USB	(AB)
S06s	9296	19-10	0530	Wed	464 873 5 85958 17939 32860 84304 88497 873 5 00000	USB	(AB)
S06s	10365	19-10	0540	Wed	464 873 5 85958 17939 32860 84304 88497 873 5 00000	USB	(AB)
S06s	11530	19-10	0730	Wed	745 269 8 52401 63919 92699 14600 74248 48754 65125 41879 269 8 00000	USB	(AB)
S06s	12140	19-10	0740	Wed	745 269 8 52401 63919 92699 14600 74248 48754 65125 41879 269 8 00000	USB	(AB)
S06s	8630	19-10	0820	Wed	471 256 8 46062 68672 97478 39685 30485 96632 52537 53317 256 8 00000	USB	(AB)
S06s	9255	19-10	0830	Wed	471 256 8 46062 68672 97478 39685 30485 96632 52537 53317 256 8 00000	USB	(AB)
S06s	13365	19-10	1000	Wed	729 468 5 09394 76911 75155 58069 61732 468 5 00000	USB	(AB)
S06s	14505	19-10	1010	Wed	729 468 5 09394 76911 75155 58069 61732 468 5 00000	USB	(AB)
S06s	5744	20-10	0900	Thu	624 938 5 58202 44206 29484 25473 03883 938 5 00000	USB	(AB)
S06s	6524	20-10	0910	Thu	624 938 5 58202 44206 29484 25473 03883 938 5 00000	USB	(AB)
S06s	9081	20-10	0930	Thu	314 985 6 33445 69425 38167 05424 76458 59421 985 6 00000	USB	(AB)
S06s	10514	20-10	0940	Thu	314 985 6 33445 69425 38167 05424 76458 59421 985 6 00000	USB	(AB)
S06s	14212	20-10	1210	Thu	425 830 6 62795 74228 56551 44999 47773 55580 830 6 00000	USB	(AB-I)
S06s	12140	21-10	0930	Fri	516 903 7 46062 68672 97478 39685 30485 96632 52537 903 7 00000	USB	(AB)
S06s	13515	21-10	0940	Fri	516 903 7 46062 68672 97478 39685 30485 96632 52537 903 7 00000	USB	(AB)
S06s	9220	24-10	0830	Mon	371 496 5 37947 39747 31323 31829 47694 496 5 00000	USB	(AB-I)
S06s	8270	24-10	0840	Mon	371 496 5 37947 39747 31323 31829 47694 496 5 00000	USB	(AB-I)
S06s	14580	24-10	0900	Mon	872 504 6 32391 38632 35044 41354 31663 41731 504 6 00000	USB	(AB-FNL)
S06s	13165	24-10	0910	Mon	872 504 6 32391 38632 35044 41354 31663 41731 504 6 00000	USB	(AB-FNL)
S06s	9145	24-10	1200	Mon	831 509 6 46387 30197 31717 38137 34282 42358 509 6 00000	USB	(AB)
S06s	11460	24-10	1210	Mon	831 509 6 46387 30197 31717 38137 34282 42358 509 6 00000	USB	(AB)
S06s	5760	25-10	0700	Tue	374 802 5 49396 39265 32053 81782 47381 802 5 00000	USB	(AB)
S06s	6930	25-10	0715	Tue	374 802 5 49396 39265 32053 81782 47381 802 5 00000	USB	(AB)
S06s	7425	25-10	0730	Tue	427 589 6 41645 35709 36414 49790 32628 39730 589 6 00000	USB	(AB)
S06s	11560	25-10	0740	Tue	427 589 6 41645 35709 36414 49790 32628 39730 589 6 00000	USB	(AB)
S06s	11635	25-10	0800	Tue	352 409 6 39613 39041 39005 35178 45024 35682 409 6 00000	USB	(AB)
S06s	10420	25-10	0810	Tue	352 409 6 39613 39041 39005 35178 45024 35682 409 6 00000	USB	(AB)

S06s	6410	25-10	1000	Tue	893 420 5 37947 39747 31323 31829 47694 420 5 00000	USB	(AB-I)
S06s	7340	25-10	1010	Tue	893 420 5 37947 39747 31323 31829 47694 420 5 00000	USB	(AB-I)
S06s	6190	25-10	1100	Tue	754 821 6 39249 33434 30345 88456 34983 36714 821 6 00000	USB	(AB-AUT)
S06s	7230	25-10	1110	Tue	754 821 6 39249 33434 30345 88456 34983 36714 821 6 00000	USB	(AB-AUT)
S06s	6464	25-10	1500	Tue	537 421 6 34539 37126 43003 40894 83332 38868 421 6 00000	USB	(AB-I)
S06s	7242	25-10	1510	Tue	537 421 6 34539 37126 43003 40894 83332 38868 421 6 00000	USB	(AB-I)
S06s	9296	26-10	0530	Wed	464 873 5 85958 17939 32860 84304 88497 873 5 00000	USB	(AB)
S06s	10365	26-10	0540	Wed	464 873 5 85958 17939 32860 84304 88497 873 5 00000	USB	(AB)
S06s	11530	26-10	0730	Wed	745 269 8 52401 63919 92699 14600 74248 48754 65125 41879 269 8 00000	USB	(AB)
S06s	12140	26-10	0740	Wed	745 269 8 52401 63919 92699 14600 74248 48754 65125 41879 269 8 00000	USB	(AB)
S06s	8630	26-10	0820	Wed	471 256 8 46062 68672 97478 39685 30485 96632 52537 53317 256 8 00000	USB	(AB)
S06s	9255	26-10	0830	Wed	471 256 8 46062 68672 97478 39685 30485 96632 52537 53317 256 8 00000	USB	(AB)
S06s	13365	26-10	1000	Wed	729 468 5 09394 76911 75155 58069 61732 468 5 00000	USB	(AB)
S06s	14505	26-10	1010	Wed	729 468 5 09394 76911 75155 58069 61732 468 5 00000	USB	(AB)
S06s	5744	27-10	0900	Thu	624 938 5 58202 44206 29484 25473 03883 938 5 00000	USB	(AB)
S06s	6524	27-10	0910	Thu	624 938 5 58202 44206 29484 25473 03883 938 5 00000	USB	(AB)
S06s	9081	27-10	0930	Thu	314 985 6 33445 69425 38167 05424 76458 59421 985 6 00000	USB	(AB)
S06s	10514	27-10	0940	Thu	314 985 6 33445 69425 38167 05424 76458 59421 985 6 00000	USB	(AB)
S06s	12415	27-10	1200	Thu	425 830 6 62795 74228 56551 44999 47773 55580 830 6 00000	USB	(AB-I)
S06s	14212	27-10	1210	Thu	425 830 6 62795 74228 56551 44999 47773 55580 830 6 00000	USB	(AB-I)
S06s	12140	28-10	0930	Fri	516 903 7 46062 68672 97478 39685 30485 96632 52537 903 7 00000	USB	(AB)
S06s	13515	28-10	0940	Fri	516 903 7 46062 68672 97478 39685 30485 96632 52537 903 7 00000	USB	(AB)
S06s	9220	31-10	0830	Mon	371 371 371 00000 Operator heard before and after the transmission	USB	(AB)
S06s	8270	31-10	0840	Mon	371 371 371 00000 Operator heard before and after the transmission	USB	(AB)
S06s	14580	31-10	0900	Mon	872 872 872 00000	USB	(AB)
S06s	13165	31-10	0910	Mon	872 872 872 00000	USB	(AB)
S06s	9145	31-10	1200	Mon	831 831 831 00000	USB	(AB)
S06s	11460	31-10	1210	Mon	831 831 831 00000	USB	(AB)
S11a	10800	1-10	1540	Sat	563/00	USB	(GHn)
S11a	16112	3-10	1015	Mon	472/35 Vnimanaye ...	USB	(AB)
S11a	5358	4-10	0455	Tue	321/00	USB	(ES)
S11a	7317	4-10	0915	Tue	484/00	USB	(AB)
S11a	9960	4-10	1020	Tue	421/40 Vnimanaye 85751 86758 84759 ... 71888 24810 94624 Vnimanaye, rpt msg, konets	USB	(AB/ES)
S11a	10800	5-10	1540	Wed	563/00	USB	(MPJ)
S11a	4016	5-10	1955	Wed	371/00	USB	(AB)
S11a	16112	6-10	1015	Thu	Message	USB	(AB)
S11a	5358	7-10	0455	Fri	321/00	USB	(AB)
S11a	7317	7-10	0915	Fri	484/00	USB	(AB)
S11a	9960	7-10	1020	Fri	421/40 Vnimanaye 85751 86758 84759 ... 71888 24810 94624 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	4016	7-10	1955	Fri	371/00	USB	(AB/MPJ)

S11a	10800	8-10	1540	Sat	563/00	USB	(AB/GHn/MPJ)
S11a	16112	10-10	1015	Mon	475/00	USB	(AB/MPJ)
S11a	5358	11-10	0455	Tue	322/36 Vnimanaye 72856 80389 05200 ... 60971 57652 60364 Vnimanaye, rpt msg, konets	USB	(AB/ES)
S11a	7317	11-10	0915	Tue	484/00	USB	(AB/ES)
S11a	9960	11-10	1020	Tue	426/00	USB	(AB/ES)
S11a	10800	12-10	1540	Wed	563/00	USB	(AB)
S11a	4016	12-10	1955	Wed	371/00	USB	(AB/MPJ)
S11a	16112	13-10	1015	Thu	475/00	USB	(AB)
S11a	5358	14-10	0455	Fri	322/36 Vnimanaye 72856 80389 05200 ... 60971 57652 60364 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	7317	14-10	0915	Fri	484/00	USB	(AB/ES)
S11a	9960	14-10	1020	Fri	426/00	USB	(AB)
S11a	4016	14-10	1955	Fri	371/00	USB	(AB)
S11a	10800	15-10	1540	Sat	563/00	USB	(AB/BvR)
S11a	16112	17-10	1015	Mon	475/00	USB	(AB/MPJ)
S11a	5358	18-10	0455	Tue	321/00	USB	(AB)
S11a	7317	18-10	0915	Tue	484/00	USB	(AB/ES)
S11a	9960	18-10	1020	Tue	426/00	USB	(AB)
S11a	10800	19-10	1540	Wed	563/00	USB	(AB)
S11a	4016	19-10	1955	Wed	377/32 Vnimanaye 68984 ...	USB	(AB)
S11a	16112	20-10	1015	Thu	475/00	USB	(AB)
S11a	5358	21-10	0455	Fri	321/00	USB	(AB)
S11a	7317	21-10	0915	Fri	484/00	USB	(AB)
S11a	9960	21-10	1020	Fri	426/00	USB	(AB)
S11a	4016	21-10	1955	Fri	377/32 Vnimanaye 68984 68502 59741 ...	USB	(AB)
S11a	10800	22-10	1540	Sat	563/00	USB	(AB)
S11a	5358	25-10	0455	Tue	321/00	USB	(AB)
S11a	7317	25-10	0915	Tue	487/36 Vnimanaye 16434 21754 61103 ... 87243 63791 99843 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	9960	25-10	1020	Tue	426/00	USB	(AB/MPJ)
S11a	4016	26-10	1955	Wed	371/00	USB	(AB/MPJ)
S11a	16112	27-10	1015	Thu	475/00	USB	(AB)
S11a	5358	28-10	0455	Fri	321/00	USB	(AB)
S11a	7317	28-10	0915	Fri	487/36 Vnimanaye 16434 21754 61103 ... 87243 63791 99843 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	9960	28-10	1020	Fri	426/00	USB	(AB)
S11a	10800	29-10	1548	Sat	567/32 message	USB	(AB/MPJ)
S11a	16112	31-10	1015	Mon	475/00	USB	(AB)
S28	4625	2-10	1338	Sun	ZhUOZ 07678 BYKOMHAT 58216631	USB	(Priyom)
S28	4625	2-10	1349	Sun	ZhUOZ 50654 ZhMOTOFON 60790078	USB	(Priyom)
S28	4625	2-10	1546	Sun	ZhUOZ 98247 DUVROChAJ 47476831	USB	(Priyom)
S28	4625	2-10	1557	Sun	ZhUOZ 86607 GRIBOFUT 52918888	USB	(Priyom)
S28	4625	2-10	1558	Sun	ZhUOZ 32424 ISHIMOSTOK 09094948	USB	(Priyom)
S28	4625	2-10	1638	Sun	ZhUOZ 83891 ZAKRYVANIYe 77263201	USB	(Priyom)
S28	4625	2-10	1641	Sun	ZhUOZ 10816 VZMYeT 86644343	USB	(Priyom)
S28	4625	3-10	1338	Mon	ZhUOZ 53779 BYeDOKURKA 21919162	USB	(Priyom)
S28	4625	3-10	1340	Mon	ZhUOZ 56092 KLADChIK 65634935	USB	(Priyom)
S28	4625	7-10	0814	Fri	ZhUOZ 09680 VSTRYSKA 507030657	USB	(IKOOZK)
S28	4625	18-10	1642	Tue	Buzzer channel marker	USB	(chpa)
S28	4625	24-10	0536	Mon	Buzzer channel marker //6998 kHz	USB	(AB)
S28	6998	24-10	0536	Mon	Buzzer channel marker //4625 kHz	USB	(AB)
S28	4625	24-10	1616	Mon	Buzzer channel marker on 4625//6998//9250 (2nd harmonic of 4625 kHz)	USB	(AB)
S28	6998	24-10	1616	Mon	Buzzer channel marker on 4625//6998//9250 (2nd harmonic of 4625 kHz)	USB	(AB)
S28	9250	24-10	1616	Mon	Buzzer channel marker on 4625//6998//9250 (2nd harmonic of 4625 kHz)	USB	(AB)
S30	3756	3-10	1823	Mon	Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J	USB	(Priyom)
S30	3756	3-10	1823	Mon	Diya: Y8VM 6I2Z 8CSJ 27S' N1DU ?3OB 78MV DEAY JH'J 12CI Kak slyso? Kak slyso? Priyom	USB	(IKOOZK)
S30	6922	6-10	1358	Thu	i.p. TsTsZhYuR VEAOP STDEK VEAOP STDEK VEAOP STDEK SchTsKhSN MUSHDKh TPBVY DUGKCh ZhZhTsYuYu BKhUOYu TsTsAUI KYaPDB EZhDTo ShchIZhNO TGPEU SDKYuD PUPVYa Razdel	USB	(AAI)

S30	3756	7-10	1830	Fri	Message	USB	(IK00ZK)
S30	3756	18-10	1646	Tue	Pip channel marker	USB	(chpa)
S30	5448	24-10	0534	Mon	Pip channel marker	USB	(AB)
S32	5473	3-10	1343	Mon	AL'FA-45 00218 BRyAKOVTUZ 90566661	USB	(Priyom)
S32	5473	3-10	1346	Mon	AL'FA-45 79633 VyeSTOVOYaZH 58273287	USB	(Priyom)
S32	3828	18-10	1644	Tue	Squeaky Wheel channel marker	USB	(chpa)
S32	5474	24-10	0535	Mon	Squeaky Wheel channel marker	USB	(AB)
S5292	5292	5-10	1610	Wed	Channel marker D	USB	(MPJ)
S5292	5292	7-10	1801	Fri	Channel marker D	USB	(AB)
S5292	5292	18-10	1638	Tue	Channel marker D	USB	(chpa)
UM10	3629	1-10	1655	Sat	10-mins net: SDXL	CW	(JPL-J)
UM10	3542	2-10	1522	Sun	10-mins net: HDNA //4113 kHz	CW	(JPL-J)
UM10	4113	2-10	1522	Sun	10-mins net: HDNA //3542 kHz	CW	(JPL-J)
UM10	3629	2-10	1551	Sun	10-mins net: SDXL	CW	(JPL-J)
UM10	3865	3-10	1628	Mon	10-mins net: KTR4 (new freq)	CW	(JPL-Sib)
UM10	3206	10-10	1925	Mon	10-mins net: KTR4	CW	(JPL-Sib)
UM10	3238	10-10	1929	Mon	10-mins net: D6AN	CW	(JPL-Sib)
V02a	7555	6-10	2000	Thu	i.p. ...?6211 70767 41875 ... 71002 61385 07814	LSB	(qsr711)
V02a	7555	20-10	2005	Thu	i.p.	LSB	(qsr711)
V02a	7554	27-10	2000	Thu	Spanish numbers	LSB	(PW2/qsr711)
V02a	7555	27-10	2000	Thu	Late start, very noisy transmitter and bad modulation. Impossible to copy	LSB	(qsr711)
V07	18074	2-10	0100	Sun	883 883 883 000	USB	(Dan)
V07	15874	2-10	0120	Sun	883 883 883 000	USB	(Dan)
V07	18074	16-10	0100	Sun	883 0 via GT San	USB	(HFD-USA)
V07	15874	16-10	0120	Sun	883 0 via GT San	USB	(HFD-USA)
V07	18074	23-10	0100	Sun	883 883 883 000	USB	(Dan)
V07	15874	23-10	0120	Sun	883 883 883 000	USB	(Dan)
V07	18074	30-10	0100	Sun	883 1 273 77 25434 90328 33488 ... 83100 32384 72337 000 000	USB	(Dan)
V07	15874	30-10	0120	Sun	883 1 273 77 25434 90328 33488 ... 83100 32384 72337 000 000	USB	(Dan)
V07	14374	30-10	0140	Sun	883 1 273 77 25434 90328 33488 ... 83100 32384 72337 000 000	USB	(Dan)
V13	9725	12-10	1200	Wed	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	12-10	1300	Wed	New Star Broadcasting #4	AM	(AB-USA)
V13	15250	16-10	0606	Sun	New Star Broadcasting #4 i.p.	AM	(sha)
V13	9725	19-10	1200	Wed	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	19-10	1300	Wed	New Star Broadcasting #4	AM	(AB-USA)
V13	15250	20-10	0500	Thu	New Star Broadcasting #4	AM	(AB-HK)
V13	15250	20-10	0600	Thu	New Star Broadcasting #4	AM	(AB-HK)
V13	9725	20-10	1200	Thu	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	20-10	1300	Thu	New Star Broadcasting #4	AM	(AB-USA)
V13	15250	21-10	0500	Fri	New Star Broadcasting #4	AM	(AB-HK)
V13	15250	21-10	0600	Fri	New Star Broadcasting #4	AM	(AB-HK)
V13	9725	22-10	1200	Sat	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	22-10	1300	Sat	New Star Broadcasting #4	AM	(AB-USA)
V13	15250	23-10	0500	Sun	New Star Broadcasting #4	AM	(AB-HK)
V13	15250	23-10	0603	Sun	New Star Broadcasting #4 i.p.	AM	(AB-HK)
V13	15388	23-10	0700	Sun	New Star Broadcasting #3	AM	(AB-HK)
V13	15388	23-10	0800	Sun	New Star Broadcasting #3	AM	(AB-HK)
V13	15250	25-10	0600	Tue	New Star Broadcasting #4	AM	(Sha-HK/AB-HK)
V13	15250	26-10	0500	Wed	New Star Broadcasting #4	AM	(AB-KOR)
V13	15250	26-10	0600	Wed	New Star Broadcasting #4	AM	(AB-KOR)
V13	9725	26-10	1200	Wed	New Star Broadcasting #4	AM	(AB-USA)
V13	9725	26-10	1300	Wed	New Star Broadcasting #4	AM	(AB-USA)
V13	15250	28-10	0500	Fri	New Star Broadcasting #4	AM	(AB-HK)
V13	15250	28-10	0600	Fri	New Star Broadcasting #4	AM	(AB-HK)
V15	621	13-10	1612	Thu	Music: Gippeum-ui Nolaengo Hamkke Galila + mes- sage on 621, 855, 3020, 3220, 3250, 6400 kHz (see N&O #229)	AM	(PW2/qsr711)
V15	855	13-10	1612	Thu	Music: Gippeum-ui Nolaengo Hamkke Galila + mes- sage on 621, 855, 3020, 3220, 3250, 6400 kHz (see N&O #229)	AM	(PW2/qsr711)

V15	3020	13-10	1612	Thu	Music: Gippeum-ui Nolaengo Hamkke Galila + message on 621, 855, 3020, 3220, 3250, 6400 kHz (see N&O #229)	AM	(PW2/qsr711)
V15	3220	13-10	1612	Thu	Music: Gippeum-ui Nolaengo Hamkke Galila + message on 621, 855, 3020, 3220, 3250, 6400 kHz (see N&O #229)	AM	(PW2/qsr711)
V15	3250	13-10	1612	Thu	Music: Gippeum-ui Nolaengo Hamkke Galila + message on 621, 855, 3020, 3220, 3250, 6400 kHz (see N&O #229)	AM	(PW2/qsr711)
V15	6400	13-10	1612	Thu	Music: Gippeum-ui Nolaengo Hamkke Galila + message on 621, 855, 3020, 3220, 3250, 6400 kHz (see N&O #229)	AM	(PW2/qsr711)
V15	621	27-10	1515	Thu	Message for Agent 21: 915-19 772-70 771-28 097-46 580-77 301-45 894-60 580-12 ...	AM	(qsr711)
V15	657	27-10	1515	Thu	Message for Agent 21: 915-19 772-70 771-28 097-46 580-77 301-45 894-60 580-12 ...	AM	(qsr711)
V15	801	27-10	1515	Thu	Message for Agent 21: 915-19 772-70 771-28 097-46 580-77 301-45 894-60 580-12 ...	AM	(qsr711)
V15	3250	27-10	1515	Thu	Message for Agent 21: 915-19 772-70 771-28 097-46 580-77 301-45 894-60 580-12 ...	AM	(qsr711)
V15	3320	27-10	1515	Thu	Message for Agent 21: 915-19 772-70 771-28 097-46 580-77 301-45 894-60 580-12 ...	AM	(qsr711)
V24	4925	13-10	1430	Thu	Music followed by a message in Korean	AM	(Moo)
V24	5115	13-10	1600	Thu	Music followed by a message in Korean	AM	(Moo)
V26	4243	1-10	0956	Sat	Messages in Chinese. Female operator (not on 9054 kHz)	USB	(JPL-J)
V26	4243	2-10	0931	Sun	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-J)
V26	9054	2-10	0931	Sun	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-J)
V26	9054	7-10	2340	Fri	Callup in Chinese. Female operator	USB	(JPL-HK)
V26	8073	8-10	0019	Sat	Messages in Chinese. Male operator	USB	(JPL-HK)
V26	8073	17-10	1130	Mon	Callup in Chinese. Female operator	USB	(JPL-HK)
V26	4243	17-10	1159	Mon	Message in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	17-10	1159	Mon	Message in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	18-10	1130	Tue	Callup in Chinese. Male operator	USB	(JPL-HK)
V26	4243	18-10	1212	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	18-10	1212	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	21-10	0045	Fri	Messages in Chinese. Male operator	USB	(JPL-HK)
V26	8073	23-10	1130	Sun	Callup in Chinese. Male operator	USB	(JPL-HK)
V26	4243	23-10	1140	Sun	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	23-10	1140	Sun	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	23-10	1203	Sun	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	23-10	1203	Sun	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	24-10	0014	Mon	Messages in Chinese. Male operator	USB	(JPL-HK)
V26	8073	25-10	1129	Tue	Callup in Chinese. Male operator	USB	(JPL-HK)
V26	4243	25-10	1140	Tue	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	25-10	1140	Tue	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	25-10	1228	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	25-10	1228	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	8073	26-10	0015	Wed	Voice messages in Chinese. Male operator	USB	(JPL-HK)
V26	9054	26-10	2341	Wed	Callup in Chinese. Female operator	USB	(JPL-HK)
V26	8073	27-10	0020	Thu	Messages in Chinese. Male operator	USB	(JPL-HK)
V26	8073	27-10	1130	Thu	Callup in Chinese. Male operator	USB	(JPL-HK)
V26	4243	27-10	1231	Thu	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	27-10	1231	Thu	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	27-10	1234	Thu	Messages in Chinese. Female operator //9054 kHz	USB	(AB-HK)
V26	9054	27-10	1234	Thu	Messages in Chinese. Female operator //4243 kHz	USB	(AB-HK)
V26	4243	28-10	1140	Fri	Voice callup in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	28-10	1140	Fri	Voice callup in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	28-10	1212	Fri	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	28-10	1212	Fri	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	4243	28-10	1232	Fri	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	9054	28-10	1232	Fri	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	9054	31-10	0005	Mon	Messages in Chinese. Female operator	USB	(Dan)
V26	9054	31-10	2338	Mon	Callup in Chinese. Female operator	USB	(Dan)
V28	3124	4-10	1330	Tue	N. Korean numbers station Parrot on 3124, 3140, 3277, 3693 kHz. Male and female operators	USB	(Kimi)

V28	3140	4-10	1330	Tue	N. Korean numbers station Parrot on 3124, 3140, 3277, 3693 kHz. Male and female operators	USB	(Kimi)
V28	3277	4-10	1330	Tue	N. Korean numbers station Parrot on 3124, 3140, 3277, 3693 kHz. Male and female operators	USB	(Kimi)
V28	3693	4-10	1330	Tue	N. Korean numbers station Parrot on 3124, 3140, 3277, 3693 kHz. Male and female operators	USB	(Kimi)
V28	3110	6-10	1330	Thu	N. Korean numbers station Parrot on 3110, 3142, 3277, 3697 kHz. Male and female operators	USB	(Kimi)
V28	3142	6-10	1330	Thu	N. Korean numbers station Parrot on 3110, 3142, 3277, 3697 kHz. Male and female operators	USB	(Kimi)
V28	3277	6-10	1330	Thu	N. Korean numbers station Parrot on 3110, 3142, 3277, 3697 kHz. Male and female operators	USB	(Kimi)
V28	3697	6-10	1330	Thu	N. Korean numbers station Parrot on 3110, 3142, 3277, 3697 kHz. Male and female operators	USB	(Kimi)
V28	3064	8-10	1333	Sat	N. Korean numbers station Parrot on 3064, 3144, 3277, 3693 kHz. Male and female operators	USB	(Kimi)
V28	3140	8-10	1333	Sat	N. Korean numbers station Parrot on 3064, 3144, 3277, 3693 kHz. Male and female operators	USB	(Kimi)
V28	3277	8-10	1333	Sat	N. Korean numbers station Parrot on 3064, 3144, 3277, 3693 kHz. Male and female operators	USB	(Kimi)
V28	3697	8-10	1333	Sat	N. Korean numbers station Parrot on 3064, 3144, 3277, 3693 kHz. Male and female operators	USB	(Kimi)
V28	3064	11-10	1331	Tue	N. Korean numbers station Parrot on 3064, 3144, 3277, 3693 kHz. Male and female operators	USB	(Kimi)
V28	3144	11-10	1331	Tue	N. Korean numbers station Parrot on 3064, 3144, 3277, 3693 kHz. Male and female operators	USB	(Kimi)
V28	3277	11-10	1331	Tue	N. Korean numbers station Parrot on 3064, 3144, 3277, 3693 kHz. Male and female operators	USB	(Kimi)
V28	3693	11-10	1331	Tue	N. Korean numbers station Parrot on 3064, 3144, 3277, 3693 kHz. Male and female operators	USB	(Kimi)
V28	3065	12-10	1332	Wed	N. Korean numbers station Parrot on 3065, 3178, 3695 kHz. Male and female operators	USB	(Kimi)
V28	3278	12-10	1332	Wed	N. Korean numbers station Parrot on 3065, 3178, 3695 kHz. Male and female operators	USB	(Kimi)
V28	3695	12-10	1332	Wed	N. Korean numbers station Parrot on 3065, 3178, 3695 kHz. Male and female operators	USB	(Kimi)
V28	3066	14-10	1335	Fri	N. Korean numbers station Parrot on 3066, 3142, 3277, 3699 kHz. Female operators	USB	(Kimi)
V28	3142	14-10	1335	Fri	N. Korean numbers station Parrot on 3066, 3142, 3277, 3699 kHz. Female operators	USB	(Kimi)
V28	3277	14-10	1335	Fri	N. Korean numbers station Parrot on 3066, 3142, 3277, 3699 kHz. Female operators	USB	(Kimi)
V28	3699	14-10	1335	Fri	N. Korean numbers station Parrot on 3066, 3142, 3277, 3699 kHz. Female operators	USB	(Kimi)
V28	3065	15-10	1332	Sat	N. Korean numbers station Parrot on 3065, 3144, 3277, 3670 kHz. Female operators	USB	(Kimi)
V28	3277	15-10	1332	Sat	N. Korean numbers station Parrot on 3065, 3144, 3277, 3670 kHz. Female operators	USB	(Kimi)
V28	3695	15-10	1332	Sat	N. Korean numbers station Parrot on 3065, 3144, 3277, 3670 kHz. Female operators	USB	(Kimi)
V28	3065	20-10	1330	Thu	N. Korean numbers station Parrot on 3065, 3157, 3283, 3696 kHz. Male and female operators	USB	(Kimi)
V28	3157	20-10	1330	Thu	N. Korean numbers station Parrot on 3065, 3157, 3283, 3696 kHz. Male and female operators	USB	(Kimi)
V28	3283	20-10	1330	Thu	N. Korean numbers station Parrot on 3065, 3157, 3283, 3696 kHz. Male and female operators	USB	(Kimi)
V28	3696	20-10	1330	Thu	N. Korean numbers station Parrot on 3065, 3157, 3283, 3696 kHz. Male and female operators	USB	(Kimi)
V28	3277	22-10	1329	Sat	N. Korean numbers station Parrot on 3277, 3694 kHz. Female operator	USB	(Kimi)
V28	3694	22-10	1329	Sat	N. Korean numbers station Parrot on 3277, 3694 kHz. Female operator	USB	(Kimi)
V28	3147	22-10	1333	Sat	N. Korean numbers station Parrot. Female operator	USB	(Kimi)
V28	3054	22-10	1334	Sat	N. Korean numbers station Parrot. Female operator	USB	(Kimi)
V28	3143	27-10	1336	Thu	N. Korean numbers station Parrot on 3143, 3159, 3277 kHz. Female operator	USB	(Kimi)

V28	3159	27-10	1336	Thu	N. Korean numbers station Parrot on 3143, 3159, 3277 kHz. Female operator	USB	(Kimi)
V28	3277	27-10	1336	Thu	N. Korean numbers station Parrot on 3143, 3159, 3277 kHz. Female operator	USB	(Kimi)
V28	3701	29-10	1339	Sat	N. Korean numbers station Parrot i.p. Female operator	USB	(Kimi)
VC03	4540	22-10	2007	Sat	Chinese Air Defense	USB	(Stock)
X06	14631	5-10	0826	Wed	Mazielka. Sequence: 362154	MFSK	(Danix)
X06	14631	19-10	0822	Wed	Mazielka. Sequence: 362154	MFSK	(Danix)
X06b	10868	1-10	0526	Sat	Mazielka. Sequence 1--6--	MFSK	(AB)
X06b	16338	4-10	1415	Tue	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16338	4-10	1416	Tue	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16338	9-10	1425	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16338	9-10	1427	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	13376	12-10	1643	Wed	Mazielka. Sequence: 1--6-- before E07	MFSK	(AB)
X06b	10868	15-10	0524	Sat	Mazielka. Sequence: 1--6-- before XPA	MFSK	(AB)
X06b	16147	23-10	1414	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	16147	23-10	1416	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	16147	28-10	1425	Fri	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(AB)
X06b	16147	28-10	1434	Fri	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(AB)
XPA	10868	1-10	0600	Sat	813 1 01216 00179 37735 ... 64687 68402 24372	MFSK-20/10Bd	(AB)
XPA	12168	1-10	0620	Sat	813 1 01216 00179 37735 ... 64687 68402 24372	MFSK-20/10Bd	(AB)
XPA	13368	1-10	0640	Sat	813 1 01216 00179 37735 ... 64687 68402 24372	MFSK-20/10Bd	(AB/BvR)
XPA	10868	5-10	0600	Wed	813 813 813 000 03322 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	12168	5-10	0620	Wed	813 813 813 000 03322 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	13368	5-10	0640	Wed	813 813 813 000 03322 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	10868	8-10	0600	Sat	813 813 813 000 01924 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12168	8-10	0620	Sat	813 813 813 000 01924 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13368	8-10	0640	Sat	813 813 813 000 01924 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10868	12-10	0600	Wed	813 1 02354 00231 78819 ... 69033 98659 05464	MFSK-20/10Bd	(AB)
XPA	12168	12-10	0620	Wed	813 1 02354 00231 78819 ... 69033 98659 05464	MFSK-20/10Bd	(AB)
XPA	13368	12-10	0640	Wed	813 1 02354 00231 78819 ... 69033 98659 05464	MFSK-20/10Bd	(AB)
XPA	10868	15-10	0600	Sat	813 813 813 000 09551 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12168	15-10	0620	Sat	813 813 813 000 09551 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13368	15-10	0640	Sat	813 813 813 000 09551 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10868	19-10	0600	Wed	813 813 813 000 04624 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12168	19-10	0620	Wed	813 813 813 000 04624 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13368	19-10	0640	Wed	813 813 813 000 04624 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10868	22-10	0600	Sat	813 813 813 000 07652 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12168	22-10	0620	Sat	813 813 813 000 07652 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13368	22-10	0640	Sat	813 813 813 000 07652 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10868	26-10	0600	Wed	813 813 813 000 04670 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12168	26-10	0620	Wed	813 813 813 000 04670 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13368	26-10	0640	Wed	813 813 813 000 04670 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10868	29-10	0600	Sat	813 1 05723 00165 34760 ... 84210 72099 53134	MFSK-20/10Bd	(AB)
XPA	12168	29-10	0620	Sat	813 1 05723 00165 34760 ... 84210 72099 53134	MFSK-20/10Bd	(AB)
XPA	13368	29-10	0640	Sat	813 1 05723 00165 34760 ... 84210 72099 53134	MFSK-20/10Bd	(AB)
XPA2	16201	1-10	1010	Sat	00547 00385 52798 42910 18797 ...	MFSK-16/20Bd	(Dan)
XPA2	14512	1-10	1020	Sat	00547 00385 52798 42910 18797 ...	MFSK-16/20Bd	(Dan)
XPA2	17462	1-10	1400	Sat	Message	MFSK-16/20Bd	(HFD)
XPA2	16114	1-10	1420	Sat	Message	MFSK-16/20Bd	(HFD)
XPA2	14828	1-10	1440	Sat	03130 00001 00000 10140	MFSK-16/20Bd	(MPJ/HFD)
XPA2	16201	2-10	1010	Sun	00808 00333 32600 12382 17126 76836 11500	MFSK-16/20Bd	(Dan)
XPA2	14512	2-10	1020	Sun	00808 00333 32600 12382 17126 76836 11500	MFSK-16/20Bd	(Dan)
XPA2	16147	2-10	1500	Sun	04640 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	16338	2-10	1500	Sun	04477 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	14538	2-10	1520	Sun	04477 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	14947	2-10	1520	Sun	04640 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	13538	2-10	1540	Sun	04477 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	14447	2-10	1540	Sun	04640 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16338	4-10	1500	Tue	01292 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	14538	4-10	1520	Tue	01292 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	13538	4-10	1540	Tue	01292 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	16284	7-10	0700	Fri	08499 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18184	7-10	0720	Fri	08499 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	19584	7-10	0740	Fri	08499 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17462	7-10	1400	Fri	05159 00063 67987 ... 48445 42443 35164	MFSK-16/20Bd	(AB/MPJ)

XPA2	16114	7-10	1420	Fri	05159 00063 67987 ... 48445 42443 35164	MFSK-16/20Bd	(AB/MPJ)
XPA2	14828	7-10	1440	Fri	05159 00063 67987 ... 48445 42443 35164	MFSK-16/20Bd	(AB/MPJ)
XPA2	16147	7-10	1500	Fri	04218 00157 47738 ... 61866 46828 14643	MFSK-16/20Bd	(AB/MPJ)
XPA2	14947	7-10	1520	Fri	04218 00157 47738 ... 61866 46828 14643	MFSK-16/20Bd	(AB/MPJ)
XPA2	14447	7-10	1540	Fri	04218 00157 47738 ... 61866 46828 14643	MFSK-16/20Bd	(AB/MPJ)
XPA2	17462	8-10	1400	Sat	05159 00063 67987 ... 48445 42443 35164	MFSK-16/20Bd	(AB)
XPA2	16114	8-10	1420	Sat	05159 00063 67987 ... 48445 42443 35164	MFSK-16/20Bd	(AB)
XPA2	14828	8-10	1440	Sat	05159 00063 67987 ... 48445 42443 35164	MFSK-16/20Bd	(AB)
XPA2	16147	9-10	1500	Sun	04218 00157 47738 ... 61866 46828 14643	MFSK-16/20Bd	(AB/MPJ)
XPA2	16338	9-10	1500	Sun	00430 00087 46311 ... 28046 24855 41636	MFSK-16/20Bd	(AB)
XPA2	14538	9-10	1520	Sun	00430 00087 46311 ... 28046 24855 41636	MFSK-16/20Bd	(AB/MPJ)
XPA2	14947	9-10	1520	Sun	04218 00157 47738 ... 61866 46828 14643	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	9-10	1540	Sun	00430 00087 46311 ... 28046 24855 41636	MFSK-16/20Bd	(AB/MPJ)
XPA2	14447	9-10	1540	Sun	04218 00157 47738 ... 61866 46828 14643	MFSK-16/20Bd	(AB)
XPA2	16284	11-10	0700	Tue	08313 00001 00000 10140	MFSK-16/20bd	(AB/HFD)
XPA2	18184	11-10	0720	Tue	08313 00001 00000 10140	MFSK-16/20bd	(AB/HFD)
XPA2	19584	11-10	0740	Tue	08313 00001 00000 10140	MFSK-16/20bd	(AB/HFD)
XPA2	16338	11-10	1500	Tue	00430 00087 46311 ... 28046 24856 41636	MFSK-16/20Bd	(AB/RL/MDK2)
XPA2	14538	11-10	1520	Tue	00430 00087 46311 ... 28046 24856 41636	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	11-10	1540	Tue	00430 00087 46311 ... 28046 24856 41636	MFSK-16/20Bd	(AB/MPJ)
XPA2	17462	14-10	1400	Fri	07315 00001 00000 11140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16114	14-10	1420	Fri	07315 00001 00000 11140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14828	14-10	1440	Fri	07315 00001 00000 11140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16147	14-10	1500	Fri	01760 00000 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14947	14-10	1520	Fri	01760 00000 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14447	14-10	1540	Fri	01760 00000 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14828	15-10	1440	Sat	08279 00001 00000 10140	MFSK-16/20Bd	(BvR)
XPA2	16147	16-10	1500	Sun	04714 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16338	16-10	1500	Sun	01585 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/MDK2)
XPA2	14538	16-10	1520	Sun	01585 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14947	16-10	1520	Sun	04714 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13538	16-10	1540	Sun	01585 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14447	16-10	1540	Sun	04714 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16284	18-10	0700	Tue	06043 00143 60705 ... 92614 72506 00171	MFSK-16/20bd	(AB-I)
XPA2	18184	18-10	0720	Tue	06043 00143 60705 ... 92614 72506 00171	MFSK-16/20bd	(AB-AUT)
XPA2	19584	18-10	0740	Tue	06043 00143 60705 ... 92614 72506 00171	MFSK-16/20bd	(AB-AUT)
XPA2	16338	18-10	1500	Tue	03417 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14538	18-10	1520	Tue	03417 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	18-10	1540	Tue	03417 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16284	21-10	0700	Fri	06043 00143 60705 ... 92614 72506 00171	MFSK-16/20Bd	(AB)
XPA2	18184	21-10	0720	Fri	06043 00143 60705 ... 92614 72506 00171	MFSK-16/20Bd	(AB)
XPA2	19584	21-10	0740	Fri	06043 00143 60705 ... 92614 72506 00171	MFSK-16/20Bd	(AB)
XPA2	17462	21-10	1400	Fri	09811 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16114	21-10	1420	Fri	09811 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14828	21-10	1440	Fri	09811 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16147	21-10	1500	Fri	06601 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14947	21-10	1520	Fri	06601 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14447	21-10	1540	Fri	06601 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17462	22-10	1400	Sat	04913 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	16114	22-10	1420	Sat	04913 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14828	22-10	1440	Sat	04913 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/BvR)
XPA2	16147	23-10	1500	Sun	02863 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16338	23-10	1500	Sun	04320 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14538	23-10	1520	Sun	04320 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14947	23-10	1520	Sun	02863 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13538	23-10	1540	Sun	04320 00001 00000 10140	MFSK-16/20Bd	(AB/Dan)
XPA2	14447	23-10	1540	Sun	02863 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16284	25-10	0700	Tue	03606 00001 00000 10140	MFSK-16/20bd	(AB-I)
XPA2	18184	25-10	0720	Tue	03606 00001 00000 10140	MFSK-16/20bd	(AB-I)
XPA2	19584	25-10	0740	Tue	03606 00001 00000 10140	MFSK-16/20bd	(AB-I)
XPA2	16338	25-10	1500	Tue	02504 00001 00000 10140	MFSK-16/20Bd	(AB-I/Dan)
XPA2	14538	25-10	1520	Tue	02504 00001 00000 10140	MFSK-16/20Bd	(AB-I/MPJ/Dan)
XPA2	13538	25-10	1540	Tue	02504 00001 00000 10140	MFSK-16/20Bd	(AB-I/MPJ/Dan)
XPA2	16284	28-10	0700	Fri	05374 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18184	28-10	0720	Fri	05374 00001 00000 10140	MFSK-16/20Bd	(AB)

XPA2	19584	28-10	0740	Fri	05374 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17462	28-10	1400	Fri	05963 00101 86235 ... 72375 29428 53673	MFSK-16/20Bd	(AB)
XPA2	16114	28-10	1420	Fri	05963 00101 86235 ... 72375 29428 53673	MFSK-16/20Bd	(AB/MPJ)
XPA2	14828	28-10	1440	Fri	05963 00101 86235 ... 72375 29428 53673	MFSK-16/20Bd	(AB/MPJ)
XPA2	16147	28-10	1500	Fri	02910 00209 14922 ... 35876 10734 62043	MFSK-16/20Bd	(AB/MPJ)
XPA2	14947	28-10	1520	Fri	02910 00209 14922 ... 35876 10734 62043	MFSK-16/20Bd	(AB/MPJ)
XPA2	14447	28-10	1540	Fri	02910 00209 14922 ... 35876 10734 62043	MFSK-16/20Bd	(AB/MPJ)
XPA2	17462	29-10	1400	Sat	05963 00101 86235 ... 72375 29428 53673	MFSK-16/20Bd	(AB/MPJ)
XPA2	16114	29-10	1420	Sat	05963 00101 86235 ... 72375 29428 53673	MFSK-16/20Bd	(AB)
XPA2	14828	29-10	1440	Sat	05963 00101 86235 ... 72375 29428 53673	MFSK-16/20Bd	(AB/MPJ)
XPA2	14538	30-10	1520	Sun	01385 00095 15339 95365 63250 ... 94373 10149 53942 37915 43711	MFSK-16/20Bd	(MPJ)
XPA2	13539	30-10	1540	Sun	01385 00095 15339 95365 63250 ... 94373 10149 53942 37915 43711	MFSK-16/20Bd	(MPJ/HFD)
XPA2	14447	30-10	1540	Sun	02910 00209 14922 55259 11023 ... 89402 95372 35876 10734 62043	MFSK-16/20Bd	(MPJ)
XSL	4153	28-10	1148	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
XSL	4231.5	28-10	1148	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
XSL	4291	28-10	1148	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
XSL	6250	28-10	1148	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
XSL	6417	28-10	1148	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
XSL	6445	28-10	1148	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
XSL	8313	28-10	1148	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
XSL	8508	28-10	1148	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)
XSL	8703.5	28-10	1148	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-AUS)

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AB-AUT	Ary Boender via remote rx Austria	IKOOZK	IKOOZK Renato, Italy
AB-FNL	Ary Boender via remote rx Finland	JPL	JPL, Ontario, Canada (and various remotes)
AB-GRC	Ary Boender via remote rx Greece	JPL-HK	JPL via remote rx Hong Kong
AB-HK	Ary Boender via remote rx Hong Kong	JPL-J	JPL via remote rx Japan
AB-IT	Ary Boender via remote rx Italy	JPL-S	JPL via remote rx Sweden
AB-KOR	Ary Boender via remote rx South Korea	JPL-Sib	JPL via remote rx Siberia
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CtY	Ct Yankee	Priyom	Priyom.org
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Danix-USA	Danix via remote rx USA	RR2	Rich Ray, IL, USA
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7269 76329 74698 76857 98678 27601 56701 57601 73648 1
591 87364 87265 96710 27638 12673 84769 28743 98127 5
63298 75698 27465 87326 49876 28376 81273 98615 81
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
741 86743 86743 86743 86743 86743 86743 86743 86743 4
943 98798 98754 98754 98754 98754 29867 67543 67986 86
976 87698 69876 87698 69876 87612 12341 34867 86798 652
867 43298 65656 56756 56123 32143 14321 32143 14321 321
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