

27364	92836	89428	81268	74982	46498	32784	31277
40932	70987	32123	49817	26346	81287	65491	87364
75654	55656	12737	72727	72727	91918	63473	67867
87629	37677	32612	53498	71296	28756	18276	98716
76329	74698	76857	98670	27601	56701	57601	73648
87364	87265	96710	27630	12673	84769	28743	98127
63298	75698	27465	87326	49876	28376	81273	98615
87432	74328	78674	29867	32867	67867	86786	43286
68768	68763	34234	34238	68768	62342	48273	48768
98432	32432	86743	43286	43286	43286	43286	43286
86743	86743	39867	32867	86743	43286	43286	43243
86743	86743	86743	86743	86743	86743	86743	86743
98798	98754	98754	98754	98754	29867	67543	67986
87698	69876	87698	69876	87612	12341	34867	86798
43298	65656	56756	56123	32143	14321	32143	14321
58765	58765	58765	58765	58765	58765	58765	58756

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #338, November 2025

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.

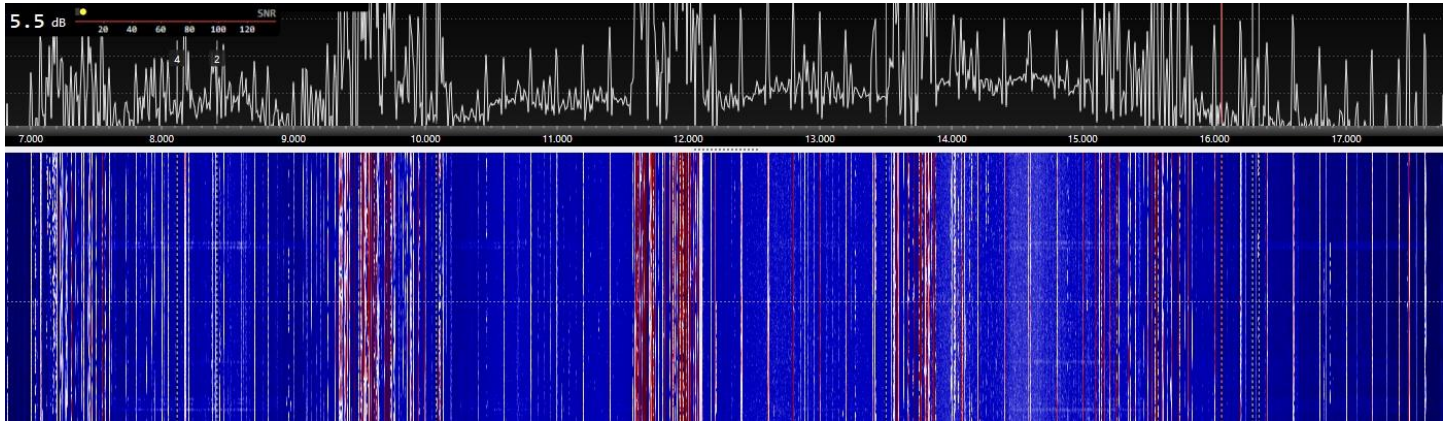


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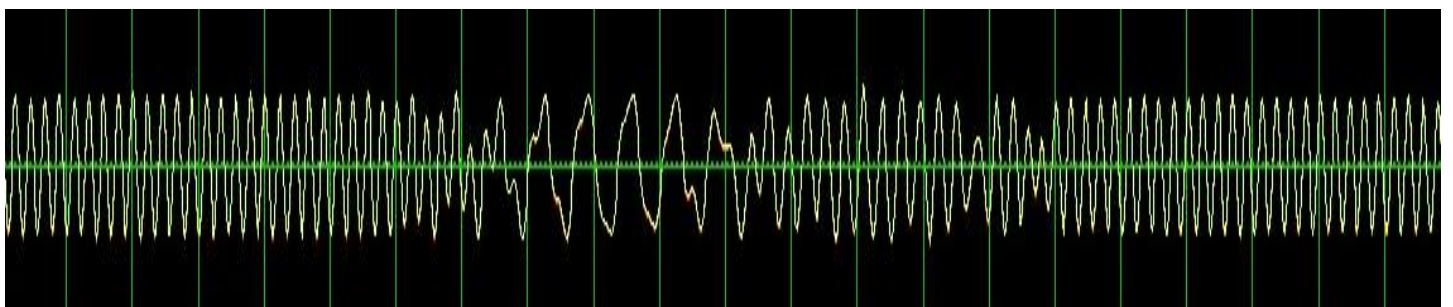


Numbers and Oddities

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NOTE FROM THE EDITOR

Our Polish friends (E11, S11a, F03, P03) were silent after 1105z on November 21st and returned on November 24th. First briefly on 12067 kHz, 24-11, 0845z, E11: 716/00 off after a 46 secs. Then off again till 0930z. Normal broadcasting resumed at 0930z. They were probably down for maintenance. Before the 21st, they also skipped several transmissions and in two cases the callup and group count were missing. Several messages were not repeated but were replaced with new messages.

The Russians continued their XPA2 and XPB1 exercises during a part of the month.

Finally I'd like to thank you for sharing your logs !

VOICE STATIONS

E06

10755 kHz, 18-11, 0720 UTC

975 (R1h21m) 381 60
55721 57880 74482 30513 20613 70090 83593 62751 47138 89047
08365 28241 41271 85607 83041 73000 81999 74215 52370 58427
39677 98411 67926 86714 21819 53564 70484 56431 69777 63981
44353 77967 54727 56611 54629 03540 46414 98517 03294 51425
53087 90297 65093 29121 56066 32659 89145 85126 87366 08321
77207 44016 23842 46437 74534 04505 96250 61726 34280 05191
[10s silence] 975 (R1m10s)
21819 53 [no further activity]

Full recomposed message:

975 381 60
55721 57880 74482 30513 20613 70090 83593 62751 47138 89047
08365 28241 41271 85607 83041 73000 81999 74215 52370 58427
39677 98411 67926 86714 21819 53564 70484 56431 69777 63981
44353 77967 54727 56611 54629 03540 46414 98517 03294 51425
53087 90297 65093 29121 56066 32659 89145 85126 87366 08321
77207 44016 23842 46437 74534 04505 96250 61726 34280 05191

E07

17428/16132/14789 kHz, 1000/1020/1040 UTC

17428/16132/14789 kHz, 06-11/08-11, 1000/1020/1040 UTC

417 417 417 1 269 129 269 129
79849 34300 87860 26881 15417 68447 45009 39022 92254 64938
10194 22927 31926 29795 34755 01778 78695 15288 84146 43529
64568 66111 24094 67878 42300 60144 39453 14794 46076 87372
98975 88653 98679 75492 66448 83221 63642 54043 23286 01170
71174 73776 31435 82532 26186 64448 00978 84449 86844 48887
46416 51499 50361 47305 26597 15114 62378 07677 69664 87556
14824 62650 54608 11327 75968 88537 00939 49825 43439 30205
66297 52826 18243 23497 82758 04740 76021 63291 68610 04059
88812 44503 13786 53459 25004 19232 08469 45063 40843 31734
31444 94057 24394 29176 13112 57653 02801 20118 14420 25413
19889 90805 50640 64285 53138 03353 30979 75015 43718 46114
96151 83472 16190 33868 98732 39236 21213 38845 93693 56582
14436 80982 66418 50071 21640 93945 55479 42408 75688 000 000

17428/16132/14789 kHz, 20-11/22-11, 1000/1020/1040 UTC

417 417 417 1 4821 131 4821 131
06772 93330 28437 40362 70436 60546 63522 46777 71703 44408
84863 00170 30626 99409 80987 25431 04295 67529 14385 28046
35819 70441 78181 73394 70613 08291 68697 59729 75886 42656

47785 14662 30902 26605 64075 67370 72134 03242 73225 53460
16085 02996 65215 10839 76790 26830 88990 26909 61678 78085
37313 06895 24948 65580 20819 24445 27858 76718 52836 96266
50186 35333 43215 39548 72044 19043 09904 75498 57766 01010
11017 61521 06213 94761 21136 35887 79255 45441 09358 21670
82914 31692 62919 35856 56736 48445 00567 23057 28550 95456
46662 02501 29919 46749 45289 35361 69819 17577 10202 43732
25413 11230 84658 46713 62874 67378 19822 30870 54787 25433
28490 16120 12900 32596 43629 37389 44284 67581 11534 56555
63811 68524 66137 19116 07309 96863 51424 08931 26811 53861
26241 000 000

14737/13537/12137 kHz, 1500/1520/1540 UTC

14737/13537/12137 kHz, 11-11/14-11, 1500/1520/1540 UTC

751 751 751 1 873 121 873 121
95610 44231 38695 11895 67498 12056 50484 50337 48764 34057
20182 79717 33002 26156 61201 04882 50529 45308 09956 17608
62948 61107 93737 40017 22305 20185 49901 71308 60156 42089
63906 79352 03717 55980 18196 37752 65467 01103 55761 93364
26719 12247 99277 19406 49353 14878 97707 57353 68527 12024
08231 12908 47096 09367 27376 31455 22197 50845 06938 32314
61498 46177 38042 11577 96650 04962 18450 66191 19398 34000
34683 15099 33285 26175 90677 83475 52342 73232 17358 77044
24007 06685 31378 73594 76884 49482 31402 98091 15945 77490
46849 57870 23688 91608 90898 80955 69450 71932 60997 92663
48189 18390 97513 32295 19685 76196 52781 18724 83463 92754
76321 21300 40994 91495 92448 10492 89166 40440 24845 51856
68287 000 000

14737/13537/12137 kHz, 25-11/28-11, 1500/1520/1540 UTC

751 751 751 1 955 85 955 85
65755 71662 84295 66943 80490 01603 48206 90533 11199 73357
72558 49529 50856 85700 51959 73104 91200 64119 32902 52664
27798 88834 13904 49039 79153 14780 20860 03587 03088 00301
62236 08140 23087 77214 80858 76953 31021 36130 17943 01369
76732 62666 06556 55070 06427 37565 23156 62670 29427 94279
37250 56944 43980 61942 91955 47094 74408 44173 53027 73332
35488 92184 37375 67148 85650 11424 73801 93014 18019 88900
42139 25266 42441 38525 90870 33565 36936 45082 27555 85831
41352 65390 96590 44613 47467 000 000

E11a

5371 kHz, 01-11/02-11, 0700 UTC

495/39 Attention
40635 17259 83254 76982 46372 91788 98420 80906 87895 51775
82789 49634 69284 74807 05820 90107 95566 64166 20513 42145
16252 96885 05264 79464 31033 84830 52537 46975 44856 44679
90337 20035 06373 71686 82455 53622 00797 63510 09831
Attention (message repeated) Out

12385 kHz, 04-11/06-11, 0645 UTC

515/31 Attention
44806 41394 52018 30338 61571 01974 67749 50926 06618 94136
46102 89913 70301 38754 70214 69825 63720 02141 15226 42987
46591 00094 29905 87208 72546 60595 08557 55975 00644 33781
80716
Attention (message repeated) Out

8180 kHz, 06-11/07-11, 0720 JUTC

432/38 Attention

32175 44155 71480 90272 09059 13133 59050 75412 93676 77712
09729 26179 77429 11320 14797 67935 09968 10092 84039 55494
12232 16498 06425 19539 49672 51526 40645 63819 36656 04551
32537 70948 35574 57759 81114 50864 08162 31505

Attention (message repeated) Out

14972 kHz, 10-11, 0645 UTC

410/39 Attention

04524 29874 14916 86685 94312 98058 46783 23856 78839 83507
56928 42143 14483 14968 57694 78787 79786 71818 53444 29429
16810 26125 88311 77758 20779 36885 16518 14600 51942 72760
39236 73347 60712 33182 64387 34860 90937 24018 05651

Attention (message repeated) Out

23353 kHz, 10-11/13-11, 0830 UTC

185/36 Attention

59388 93434 52356 30764 15389 65119 88473 89375 58763 91865
08712 45177 11669 61661 94083 71741 99693 11943 71544 15726
71899 59214 67498 20415 23480 46575 86978 35059 63356 09063
79907 14559 78383 88126 69744 23412

Attention (message repeated) Out

14410 kHz, 10-11/12-11, 1045 UTC

693/35 Attention

37708 64010 20122 73527 63271 06222 63725 32735 72234 15475
85288 73467 62699 94309 51652 53102 65003 16943 14759 14431
15476 19817 40162 61034 01663 93321 80158 85260 58388 93214
64987 30111 26636 80483 76090

Attention (message repeated) Out

6849 kHz, 10-11/13-11, 1900 UTC. Heavy interference. May contain errors.

646/35 Attention

91133 04284 85073 54335 23282 73511 59130 43991 62748 72540
40630 79611 11657 78274 10520 69333 24185 23045 62746 87537
14252 09862 11443 43236 78167 03692 64544 07754 98414 15595
98680 21154 95198 37532 88167

Attention (message repeated) Out

11559 kHz, 11-11/12-11, 1205 UTC

464/39 Attention

63295 25829 78666 46221 44552 24098 76592 86438 41065 06797
81441 44484 07231 02010 04372 59543 81281 76127 10749 48765
48924 16563 06328 72909 61939 90449 19653 82855 96860 50244
97002 81162 20465 18673 69768 00561 13689 32422 44637

Attention (message repeated) Out

5082 kHz, 13-11/16-11, 2000 UTC

525/36 Attention

62358 47677 18828 07011 60177 25746 47854 30104 98454 73416
60142 27787 28125 30567 07328 81716 26288 51550 61076 85189
78790 37431 93447 62350 68852 57390 94610 51222 30141 39240
15974 29345 06277 92547 69839 04528

Attention (message repeated) Out

7850 kHz, 14-11/16-11, 0600 UTC

355/33 Attention

79039 60990 17462 43101 72475 55350 07386 99221 46973 00263
51670 57409 89369 08475 85082 33849 41101 77327 12679 51045
39401 16283 47506 68291 08707 48994 81231 18035 16303 96353
86102 95303 19758

Attention (message repeated) Out

6849 kHz, 14-11/16-11, 1815 UTC

925/39 Attention

23417 45662 29429 41057 67788 59182 07239 29458 08823 02079
53821 05715 76944 01327 28284 85756 47717 92745 55708 53330
17978 40888 49358 85187 14056 04911 39251 82938 65672 01936
78223 94580 95188 68289 24834 43688 67347 97052 08453

Attention (message repeated) Out

10487 kHz, 14-11/16-11, 1910 UTC

616/37 Attention

62092 24780 04566 75268 61598 90797 81481 14719 22398 61530
43932 39070 78325 60319 98250 40768 00010 09094 80057 87380
81765 07399 18494 72263 50033 41890 83402 00008 42119 31341
80259 81877 45452 78345 70817 19304 22499

Attention (message repeated) Out

4909 kHz, 15-11/16-11, 1645 UTC

360/39 Attention

51027 84848 44862 74890 99675 19095 40120 79707 04580 32925
18187 93519 43723 10681 57671 09355 31140 76683 73644 05852
01816 09677 97862 02871 33384 96502 16666 51091 76938 27634
75271 29958 03058 47652 12011 52685 10682 86972 32998

Attention (message repeated) Out

20286 kHz, 17-11, 0600 UTC

941/28 Attention

24322 28887 35627 94376 57506 81814 10644 72440 75078 53517
64199 72374 03142 69163 26137 66629 38679 62596 80799 55428
69242 19385 48104 60163 68769 52208 85294 51525

Attention (message repeated) Out

10213 kHz, 17-11, 0745 UTC

267/35 Attention

37726 11010 27579 51339 46694 56567 30797 36342 81259 20100
16575 16725 93793 25285 00853 37362 19101 41858 15225 71160
73058 22406 95669 10797 18787 77484 69836 24835 69278 23261
29586 50743 00098 93473 31965

Attention (message repeated) Out

14975 kHz, 18-11/21-11, 0715 UTC

633/33 Attention

85436 81777 86631 70270 80524 78772 37168 39353 56812 87103
46967 86348 22369 26500 12344 51152 38758 86706 56497 26088
00704 57933 05889 10296 76773 70854 16818 54443 15480 07686
69060 63204 50066

Attention (message repeated) Out

9079 kHz, 18-11/21-11, 1000 UTC

306/34 Attention

14258 46756 37438 53269 45240 61769 89857 88014 75294 97675
03247 57564 90787 80539 77970 54314 47120 77757 22433 58808
73410 68624 78879 18018 33884 19316 91721 19778 89594 76753
94095 13424 79974 87737

Attention (message repeated) Out

4505 kHz, 19-11, 1610 UTC

No callup, Attention

66612 13476 09569 27913 97896 32999 55345 07372 03825 44091
90435 71711 58908 42672 52808 59655 68694 98383 54330 64737
91349 23438 02751 32568 25702 25084 47909 89373 62457 47340
54958 77314 19383 48948 50392 60880 75094 34601

Attention (message repeated) Out

7469 kHz, 20-11, 0930 UTC

No callup, Attention

92321 14235 90026 15400 22716 12072 72159 43500 82079 97974
35262 95266 48339 78836 28939 14919 00987 15657 12337 99852
50560 00132 28660 47899 82854 45303 55615 48802 30121 59377
27729 05588 91296 04332 06131 65774 20198

Attention (message repeated) Out

5409 kHz, 20-11, 1530 UTC

268/35 Attention

84012 05867 13626 08913 84468 74623 06496 29434 11021 67518
91015 75510 72154 92897 09471 46773 03679 00610 90148 04534
63995 13583 31336 68763 43238 11403 20292 05726 17486 67721
09778 68187 58070 32987 03819

Attention (message repeated) Out

12067 kHz, 24-11, 0845 UTC **716/00** off after a 46 secs

12067 kHz, 26-11, 0845 UTC

712/35 Attention

00325 95506 65645 90179 06019 10956 05580 37275 67459 41584
67873 32676 26325 42293 72382 52797 54906 98323 75088 27146
41563 80684 55803 16269 64184 12722 02631 94641 89459 03541
87050 38180 80803 45803 07537

Attention (message repeated) Out

4909 kHz, 24-11, 1300 UTC

319/32 Attention

13198 65230 51436 41235 55417 59304 64986 97321 87286 93654
32956 66462 43607 28077 75523 17348 48672 84915 64150 48865
85504 47670 53205 50858 72909 58409 04359 17749 40937 72598
29732 58904

Attention (message repeated) Out

12924 kHz, 24-11, 1745 UTC

248/33 Attention

25736 24667 67546 60789 35654 49379 33592 38551 35736 73391
81342 76767 51269 27376 17493 47227 65967 62031 56235 80561
20566 96856 39812 39179 26963 84349 10086 60400 02509 11289
63758 16593 94389

Attention (message repeated) Out

6804 kHz, 25-11/28-11, 0700 UTC

579/31 Attention

05615 45000 11019 44493 55048 08606 60751 13611 83017 55779
37269 33253 86713 78748 99671 51759 96994 80299 39565 41191
58276 29681 54405 23390 07109 05865 89724 80517 37984 66560
78231

Attention (message repeated) Out

23031 kHz, 25-11, 0745 UTC

224/30 Attention

18076 87947 49666 28747 84306 76002 63427 96618 73431 16082
20386 96837 39219 30692 71809 05853 40968 49832 40555 48123
92358 97903 68811 80119 54050 91472 46031 69821 76174 60748

Attention (message repeated) Out

14611 kHz, 25-11/26-11, 0820 UTC

134/40 Attention (25-11) / **139/40** Attention (26-11)

08685 98016 13136 49825 96425 65465 25746 77744 42231 94237
21544 49368 19137 18243 51905 91101 74893 55881 65620 62409
83112 50087 81292 74798 06236 18781 97877 17066 49727 61275
40660 45620 84240 36478 27357 01566 72073 35921 19149 96747

Attention (message repeated) Out

17378 kHz, 25-11, 0845 UTC

157/28 Attention

02418 57607 17096 59275 60394 72551 57626 30850 33963 10225
13955 45323 89035 45131 48126 00001 18205 18327 92644 24947
62400 06381 78226 13283 91277 83053 02483 17927
Attention (message repeated) Out

17378 kHz, 26-11, 0745 UTC

341/35 Attention

04260 06500 12219 68932 88606 45323 63412 24712 34593 14331
32023 66146 88026 21344 41627 93638 28712 31265 83540 62142
90565 97178 19903 34507 57684 22895 85169 64457 60697 50355
81574 31314 12239 25374 24783
Attention (message repeated) Out

15915 kHz, 26-11, 0900 UTC

539/35 Attention

96983 48473 78829 61993 23540 95265 35289 25093 72410 48913
41945 35847 03505 86821 59278 18969 33493 59568 42553 40639
03188 99415 73630 16731 91998 17303 81857 32563 32797 84990
89763 55008 89026 19301 82629
Attention (message repeated) Out

5082 kHz, 26-11, 1715 UTC

971/37 Attention

86761 71079 58193 19684 20690 70494 66144 65446 91259 49124
53184 51708 78253 83192 89055 71978 08616 92154 71338 48318
73774 06785 70530 09060 92680 10645 49145 25786 25615 57111
73557 88816 65284 60738 37402 84034 27929
Attention (message repeated) Out

23031 kHz, 27-11, 0745 UTC

220/30 Attention

67536 45138 09593 17454 35329 71986 15375 97276 12600 92993
12758 13444 82966 98905 28176 60294 34723 71958 54108 27032
44602 99814 42641 23057 68938 87074 96135 98046 85541 31781
Attention (message repeated) Out

17378 kHz, 27-11, 0845 UTC. Should be a repeat of 25-11 but sent a different message

155/28 Attention

56313 41832 59912 67485 49247 73196 37826 04094 18527 74422
97858 84446 63549 22153 66784 50621 63891 34331 63493 31234
35300 22329 70108 57274 73657 30617 88531 79179
Attention (message repeated) Out

4909 kHz, 27-11, 1300 UTC. Should be a repeat of 24-11 but sent a different message

316/32 Attention

70721 96806 12976 03187 81081 76734 74028 48369 71955 61895
07827 06608 52666 53333 12740 01439 18940 86735 57234 45911
28242 94455 70860 48512 71987 33996 62763 69035 16986 60986
87256 38017
Attention (message repeated) Out

17378 kHz, 28-11, 0745 UTC. Should be a repeat of 26-11 but sent a different message

349/35 Attention

55236 39297 74714 63958 76219 63622 04910 69201 59969 71426
47229 67600 17885 62640 51166 51241 95553 85741 63993 60650
17017 98253 11381 76251 74628 44306 98398 36084 41953 53344
17372 19174 04297 97093 85889
Attention (message repeated) Out

5082 kHz, 28-11, 1715 UTC. Should be a repeat of 26-11 but sent a different message

975/37 Attention

85955 04218 10111 09009 29504 22974 55397 50086 22241 53542
61378 35320 12040 39069 98475 68148 08084 61893 62584 66195
93437 97749 54033 92072 26961 53005 53567 25516 37730 27407
65101 03728 60071 88702 62114 47196 24514
Attention (message repeated) Out

S06

3 and 4 November: no transmissions

11616/9322 kHz, 05-11/06-11, 0400/0420 UTC

480 563 21
32305 87072 66769 98265 64508 82892 52583 24500 99367 64997
48951 69422 08833 83750 35679 47083 13219 66085 49271 24149
41644
563 21
480 291 35
94242 38644 20296 00537 55401 91971 79837 42905 84603 94931
30975 34301 96986 18163 75091 01639 02112 59297 25013 05990
65069 17493 20060 36613 70411 81802 11911 58998 56110 69689
00943 15347 09713 76582 27760
291 35 00000

11616/9322 kHz, 07-11, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 10-11/11-11, 0400/0420 UTC

480 753 60
70506 59796 57426 79039 67234 97932 70485 05735 55275 48773
66838 46070 43920 22424 90247 51037 14046 02932 34265 38978
95257 27748 08297 39634 54846 26274 99065 60235 72001 84672
63432 90329 95718 29137 13494 71045 09826 44807 79909 55454
53590 72517 64381 14747 71314 50561 17243 69888 89386 93666
01068 53456 44202 26360 26264 31335 09404 12922 69573 38970
753 60 00000

11616/9322 kHz, 12-11/13-11, 0400/0420 UTC

480 692 19
01296 68553 81332 54578 26939 41404 12039 56667 61709 44605
13368 82799 54162 37608 40949 77992 38734 14347 48228
692 19
480 175 33
34055 65921 60524 09724 60779 87257 28664 74407 57638 56071
33182 36269 78360 42034 51228 99977 25907 32886 11607 35114
80988 71214 47455 83317 06568 20643 95896 00301 06665 03584
55603 87405 02910
175 33 00000

11616/9322 kHz, 14-11, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 17-11/18-11, 0400/0420 UTC

480 396 51
76642 42410 39271 02673 35104 99121 77166 25448 23583 55057
27193 40529 89647 68254 55504 33439 09712 39804 37634 07318
01798 46403 65062 34481 77063 66773 21013 54165 22295 62850
30179 39904 30541 01702 12059 84980 22075 29109 92602 79359
22884 30739 53832 76587 92855 41856 26147 74054 20873 91506
52994
396 51 00000

11616/9322 kHz, 19-11/20-11, 0400/0420 UTC

480 152 37
07443 68220 58609 07059 76767 12353 99134 70621 07367 69808
11357 69631 57820 28682 86697 90953 86256 73630 93538 76962
81862 12188 52534 20846 35168 94925 81160 08107 39282 90394
12192 27686 39280 00796 15787 01158 71913
152 37
480 736 14
24022 16441 88688 64095 53996 02915 44992 69869 27098 04329
05305 06308 26915 07826
736 14 00000

11616/9322 kHz, 21-11, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 23-11/24-11, 0400/0420 UTC

480 259 51
25106 74458 65185 70694 42887 78482 11568 87343 16907 37894
32434 96930 22287 07768 75487 74676 93595 28310 53557 18673
66106 74879 13432 87848 34330 94431 36837 00565 13785 58075
21966 36054 16910 84431 19026 05869 79087 13477 18217 87547
95700 35572 13593 37669 56154 05341 91241 26487 85813 95109
15215
259 51 00000

11616/9322 kHz, 26-11/27-11, 0400/0420 UTC

480 926 27
95581 30727 19370 47775 43929 61071 82386 60659 03894 71323
49366 92022 32387 18964 47330 50094 11165 90780 75240 29751
89966 87291 69831 60450 19973 58817 29758
926 27
480 137 29
87400 92936 65710 54586 46696 84278 74391 46020 84928 85341
52157 11866 72963 88221 23340 67999 36262 25570 52925 23011
11100 20437 39535 61883 56742 15903 07344 24307 40766
137 29 00000

11616/9322 kHz, 28-11, 0400/0420 UTC

480 480 480 00000

7923/5928 kHz, 21-11, 2000/2100 UTC

7923/5937 kHz, 22-11, 2000/2100 UTC

842 763 51
05430 38851 16195 69122 92790 14834 01183 58655 33443 21477
01823 16377 06623 69672 21441 37903 61298 41704 47917 09853
38070 26597 32597 72957 50299 20526 47293 36056 06474 92387
33534 49418 08604 04061 21590 75393 87370 95982 30005 16087
28881 70256 97766 02262 57540 41099 86121 67796 23469 18115
63109
763 51 00000

S11a

21906 kHz, 03-11, 0510 UTC

657/30 Vnimanıye
61644 88892 57643 41570 34910 21146 40249 08595 85028 24914
47299 48228 11997 15693 24247 92653 85585 73630 47834 85083
21516 85346 69517 89394 89575 36415 77492 83383 96881 03876
Vnimanıye (message repeated) Konets

23486 kHz, 05-11/07-11, 0725 UTC

385/31 Vnimanije

77477 55008 40594 46267 67984 45325 79730 40475 35686 80738
49489 36462 87603 26571 61927 76829 19836 96703 16806 04351
94757 89730 40763 40425 76387 44787 17217 71327 07893 98334
75996

Vnimanije (message repeated) Konets

11486 kHz, 05-11, 1850 UTC

285/34 Vnimanije

08707 52575 01932 10399 07876 02453 00957 17563 04220 84793
78090 44928 26328 73652 73319 86082 19322 80975 57367 57010
33892 42840 97459 73197 33125 53192 18960 41437 94258 52604
46848 41085 11775 22419

Vnimanije (message repeated) Konets

9050 kHz, 10-11, 0700 UTC

477/33 Vnimanije

47508 87350 03962 09326 39239 89227 62159 37472 11694 55043
08657 77764 07384 09643 56895 48001 40677 15506 01811 03102
56818 71354 61213 45191 69449 61749 08076 88538 49310 47557
63221 12901 72746

Vnimanije (message repeated) Konets

6252 kHz, 10-11/14-11, 0915 UTC

480/31 Vnimanije

25897 59009 90362 26929 06055 10249 70193 89142 01407 25030
15886 08164 85615 48663 18226 05352 26914 20940 96093 90946
98424 29094 81140 52098 22909 32485 32864 84045 04704 50374
81023

Vnimanije (message repeated) Konets

10448 kHz, 25-11, 1400 UTC

429/38 Vnimanije

85040 78346 23916 27599 68881 34122 10060 46087 41230 22533
85329 74244 43032 30022 64695 82712 23160 10177 47279 12020
70322 05649 85324 06043 88647 14632 49776 97629 88516 52448
46229 37320 65275 96947 78471 98418 20977 32223

Vnimanije (message repeated) Konets

10448 kHz, 28-11, 1400 UTC. Should be a repeat of 25-11 but sent a different message

427/38 Vnimanije

51917 63379 05597 93601 45228 04872 51752 91797 64723 79566
23107 67638 30733 03451 36872 13029 31805 24730 21978 85275
74971 03913 23123 88984 80883 43418 78575 83047 93665 09577
74937 30911 05039 29522 42485 10120 62386 87423

Vnimanije (message repeated) Konets

5371 kHz, 29-11, 0830 UTC

379/37 Vnimanije

50893 85324 97749 45741 34532 20810 36110 22187 77296 28681
86021 02072 37533 53097 24040 54121 86799 42253 95107 69737
73647 25158 88582 78898 39565 06613 89784 99740 51685 79896
86473 57672 03678 37306 16183 27704 70009

Vnimanije (message repeated) Konets

5371 kHz, 30-11, 0830 UTC. Should be a repeat of 29-11 but sent a different message

371/37 Vnimanije

57987 36666 91078 08310 12193 18704 55382 42688 34598 77947
66892 82862 95353 74124 34875 19935 09670 99224 85981 89032
45626 74260 17924 06309 50667 58017 83716 77209 07122 15128
30943 79918 69882 36418 15478 71301 12291

Vnimanije (message repeated) Konets

Exercise traffic

9351/10516/11431 kHz, 25-11, 1230/1250/1310 UTC. Pre 2017 voice

261 261 261 1 9496 91 9496 91
 97416 27774 67079 29462 21182 53759 78142 30195 88240 14013
 84492 94089 03137 91064 16686 43131 74635 99567 21741 83877
 52734 75111 59917 99969 85146 92157 91172 09426 18648 87804
 05371 90816 14429 03757 07018 82349 64601 77696 11902 51686
 56529 98156 93302 68078 96489 00878 63535 63996 81826 08472
 75912 55684 05504 54804 57956 22305 67855 67108 44314 29024
 62586 68715 11547 00435 08642 93674 79660 99379 84045 34335
 78529 96938 87664 70054 27347 54576 81807 91837 03479 84267
 28621 27176 27599 10176 11892 49685 85311 59623 45799 84712
 14494 000 000

Fixed schedules

17431/16131/14431 kHz, 02-11, 0200/0220/0240 UTC

414 414 414 1 2379 128 2379 128
 13231 57252 44099 97147 12723 21023 63412 05386 76773 94616
 34378 56769 75497 15015 48389 02696 65068 16842 08631 43238
 35136 07065 20876 85471 42212 29167 27516 07865 20427 13017
 39348 37212 11050 83943 20821 02813 20906 42456 51184 65218
 89052 24118 73621 11479 70776 44987 52918 51697 77500 98357
 41837 19421 62574 23567 96855 97448 09670 37391 59800 74838
 21614 39772 18991 76831 77322 98594 40791 48631 39707 56640
 58559 24785 65254 64060 98113 55762 49488 89993 79478 65528
 75166 02984 72138 86513 51209 99336 91311 52469 74464 25758
 52629 90599 57672 88594 13077 05869 46063 82315 71327 89897
 40050 28313 41332 71788 29099 27933 51854 41687 87010 04875
 23121 71418 84903 79573 86362 54294 19192 13747 24053 56034
 86155 02196 32529 49043 54004 6754 64483 45060 000 000

17431/16131/14431 kHz, 09-11, 0200/0220/0240 UTC

414 414 414 1 2523 125 2523 125
 65213 17063 66160 57243 59462 78041 00045 74849 90321 70915
 16095 01100 18327 09111 80235 99051 69760 54531 50639 70478
 71899 18557 06269 48841 78522 83565 02762 81396 89455 99218
 55506 04343 47374 37718 07895 70973 37003 91558 18572 12889
 38804 70398 26859 24254 19441 93998 98149 82177 80820 85994
 40671 03620 87812 67900 97424 70614 39158 00215 29672 57748
 71740 19977 78669 94159 19493 57371 60253 16895 08888 44877
 73291 03336 44339 44987 33557 28842 69306 42987 48938 44612
 99058 21437 30383 29605 74131 01835 67483 58075 48632 68012
 28934 12746 94277 03921 00862 10908 85863 65574 34701 93622
 90129 18101 28962 10921 18822 84818 89159 24013 03722 83670
 70321 94178 38619 23419 21085 44777 72618 01743 43302 07327
 66952 87101 97642 07426 47307 000 000

17431/16131/14431 kHz, 16-11, 0200/0220/0240 UTC

414 414 414 1 7201 98 7201 98
 74756 73909 47200 77574 56556 81482 02943 87812 44834 13526
 28899 08890 27590 61282 87880 31168 22778 12414 87446 53648
 15713 25620 93916 99331 58679 69128 25651 63116 24626 50062
 56311 32185 35127 58266 11622 66983 41854 99707 64894 25432
 58223 81169 20537 88426 62441 91867 58561 48504 84363 42140
 71482 42732 11042 07056 96329 28079 12080 88399 3182 47279
 91831 40053 09184 84965 89845 18168 65157 68887 29388 46718
 95557 06482 63463 68471 41752 49272 09034 18703 23084 14695
 58483 95114 18487 27386 02340 35298 70474 59227 23032 10298

38370 07812 36804 33691 88311 07214 59239 51346 000 000

17431/16131/14431 kHz, 23-11, 0200/0220/0240 UTC

414 414 414 1 8047 103 8047 103

95395 53900 39568 26390 96119 71652 77259 12864 22635 59719
93971 89576 63590 51839 26044 11034 52920 59341 74760 53438
21234 44475 72012 79783 16707 13247 41002 96345 22588 37725
34500 43410 29031 32295 29918 38185 91735 80210 80062 76258
91194 42431 95175 88795 48461 64321 65318 21719 66761 52901
14496 02109 16666 91905 33769 84252 84302 32598 38832 65141
60043 85195 71572 49647 86544 05636 49914 28002 19063 68016
17750 06612 16288 94515 09268 54560 36566 51671 34546 31260
41879 29866 94517 32616 46021 92334 48596 21892 63205 26768
07929 08477 49510 58878 29763 34775 68157 57229 24569 81996
84169 35489 68911 000 000

17431/16131/14431 kHz, 30-11, 0200/0220/0240 UTC

414 414 414 1 7316 115 7316 115

80747 26361 81560 76849 38804 67212 07212 00110 94213 61064
92602 94862 14759 18010 63668 18340 14716 64945 40622 46166
86333 41039 40026 89038 54005 98169 51912 18938 11579 60723
87874 51847 10410 28563 34440 02035 81007 10664 56193 46660
81955 02484 87203 80628 89982 40579 83822 42132 52324 24516
72376 80201 95864 81912 92064 06679 66742 62279 42729 47902
83511 21989 82428 231?? 66411 07711 48553 35229 44261 90261
36856 10285 06546 44154 41125 14109 27598 82118 89157 97278
68971 94544 47557 34423 91650 54961 34836 12039 33730 54869
61867 99676 30607 40850 65211 83561 17974 58544 20408 77410
42820 51832 13931 72111 01115 60280 95063 31168 86812 78979
85234 69961 86425 49137 74276 000 000

MORSE STATIONS

M01

5810 kHz, 01-11, 1500 UTC

197 055 055 30 30 = =

45362 65748 26550 75840 15567 05564 72658 05315 50473 87960
76849 63774 56473 65068 64768 96758 29603 65793 85703 76059
00564 67859 63748 51970 07685 73516 85839 61546 63390 05563
= = 055 055 30 30 000

5230 kHz, 04-11, 1800 UTC. Different repeat in red

197 046 046 30 30 = =

234621 **23462** 64374 64738 84732 64732 64738 84321 84372 74839 74732
23647 75478 84932 85443 85940 85948 85943 85942 85948 84923
23748 85743 65746 65748 58472 23457 75849 95847 74323 75847
= = 046 046 30 30 000

4490 kHz, 04-11, 2000 UTC. Errors in red

197 045 045 30 30 = =

09323 94832 84323 84434 75843 85498 85943 95483 95043 95434
73456 65748 85948 86594 859488 **85948** 84323 75834 17534 75834 **758 75834** 75847
34857 75843 85849 95847 75834 75849 95843 75834 75849 95847
= = 045 045 30 30 000

M12

10713/11568/12165 kHz, 1100/1120/1140 UTC

10713/11568/12165 kHz, 04-11, 1100/1120/1140 UTC

657 657 657 1 3041 61 3041 61
42903 47676 22257 21085 35648 34723 95176 27511 68720 93969
54261 47956 07756 99142 13670 72874 87251 05144 15986 17676
89040 09752 60353 91493 90366 13958 08323 99341 83781 40688
44876 90117 67967 74849 98459 14669 34286 64953 00317 28850
09262 51528 42910 67652 71724 59728 88184 40080 22913 27732
35654 10306 40961 50965 78083 33151 87321 30762 30717 21689
26400 000 000

7893/8132/5182 kHz, 2200/2220/2240 UTC

7893/8132/5182 kHz, 14-11/15-11, 2200/2220/2240 UTC

812 812 812 1 7257 55 7257 55
92331 57473 56451 48545 68393 27667 50319 22487 21720 22119
58861 03936 52323 93568 88608 91235 85658 16726 27183 62667
43365 82324 53279 85366 73716 23353 51649 40478 51028 67540
97056 53148 63801 08695 11005 42863 06875 89297 92200 15618
23218 52545 89637 09455 87408 12886 93063 18109 00128 73701
47876 52342 64970 63624 19391 000 000

7893/8132/5182 kHz, 21-11/22-11/28-11/29-11, 2200/2220/2240 UTC

812 812 812 1 4381 184 4381 184
51672 13904 58145 54935 85008 82003 20876 62242 48292 34958
64664 29564 77748 38874 86387 86523 88875 40537 32163 00705
21064 86716 02795 06174 88463 54613 42001 52078 72892 57381
41719 43050 49641 38364 70523 04403 86796 58824 14643 92013
17099 63845 11317 10819 93366 37480 32752 83230 20813 68030
89742 23329 16145 88669 07699 35384 54554 01553 91991 82336
11144 04744 11001 95525 62220 61460 51808 81359 46835 30443
81814 64005 44168 70279 31700 48464 17255 54101 27721 29162
86542 25602 97606 20391 86448 56109 15699 32139 85059 08426
58301 83738 39203 94972 99938 17727 18758 33684 71134 89880
87160 34534 30519 04203 59390 03228 04456 82120 23269 60544
51281 87889 91021 19337 56632 73709 63235 07858 74201 38213
48843 54129 09384 00620 76490 43285 14751 61964 17984 80760
18601 10682 08880 56579 78274 47429 69083 93928 75361 15258
16927 99225 99605 95288 91130 44368 43849 99705 64026 99562
81001 10648 99247 96815 52805 68415 39144 27112 81307 43875
38146 03274 42976 75370 45912 70477 77198 07082 26974 81670
34002 83793 03882 14731 96185 47468 08868 25318 74056 76406
72395 84441 42242 72517 000 000

12135/11452/10627 kHz, 1900/1920/1940 UTC

12135/11452/10627 kHz, 24-11, 1900/1920/1940 UTC

573 573 573 1 4748 119 4748 119
75617 11632 16036 58468 07065 20250 25316 38466 99468 47420
92378 75394 48674 96019 21532 21866 37584 34375 94662 70920
34141 83328 21228 86104 93260 06688 38026 84601 60436 93735
35108 61527 76197 45471 77186 28971 22260 22079 70085 99594
41087 63625 78204 31907 67824 46080 81041 76423 77999 21236
41138 53733 18611 54183 62769 92287 90402 29930 65207 00377
82222 50714 78029 05732 12311 30781 99195 03202 18832 92559
99605 15505 64289 95067 29832 70514 05124 89320 18280 47179
25645 61602 96600 39200 52597 81374 42916 22004 82701 84807
38568 92329 56870 69707 17372 90371 85595 72471 19595 37043
46883 77839 57590 85438 21629 25632 89443 23542 24351 92253

87163 01082 11649 18027 74730 20619 54113 38828 50134 000 000

16152/14537/13461 kHz, 0200/0220/0240 UTC

16152/14537/13461 kHz, 03-11, 0200/0220/0240 UTC

154 154 154 1 1696 163 1696 163
40625 83806 71616 97371 25067 41924 88918 91601 03668 10830
27851 21327 57816 51311 22192 55368 98898 40144 69639 96994
87769 83030 62605 17035 66480 08630 68770 95972 66315 34455
98002 84638 32980 16625 08937 13985 35802 79812 57192 70319
52410 82843 42078 31528 59330 99905 96797 79695 32726 62077
59276 58150 69582 14896 63709 16210 67252 56816 13704 42712
12412 63424 52448 98194 88233 85319 03719 03291 91251 29580
80612 51741 90472 55801 56504 37545 43166 03873 69806 84672
48938 54244 31780 71041 96283 07431 94643 19051 24741 18568
90757 69917 86458 19915 45149 67247 75326 37224 42937 02031
11934 96019 18537 01176 01165 55849 73302 56770 41021 43344
88191 89954 27589 12430 05579 53010 78916 55980 85033 97448
44835 77600 06497 72172 13990 35037 10473 87363 69320 11692
69712 49174 15678 59156 84384 08173 67229 87219 00119 35907
33092 23472 27023 73169 06978 94933 71775 70860 56872 55578
53600 12729 99363 82589 07179 69517 55970 31082 21192 29909
44440 32517 12945 000 000

9324/10593/11438 kHz, 0800/0820/0840 UTC

9324/10593/11438 kHz, 25-11, 0800/0820/0840 UTC

826 826 826 1 9027 92 9027 92
28118 38849 85070 55269 16816 59990 34928 99147 59229 54238
00798 46386 17166 10495 36007 66199 95566 17100 66878 61937
71940 03248 36975 87726 92740 67663 90075 49078 75022 40125
84311 97311 72572 79742 35809 63184 95165 89721 99090 29949
94159 03977 93562 66450 76887 76114 71255 96598 29854 34508
04501 00837 15536 32583 53020 24870 01854 97342 62527 49151
69913 85849 24124 19103 69926 03486 73813 37423 74685 72821
71032 05844 18008 36928 67776 67963 09684 70523 10838 16626
96407 93475 19224 04054 35624 83473 81774 29988 26722 10939
61309 97821 000 000

M14

No transmissions on 3 and 4 Nov.

12211 kHz, 05-11, 0500 UTC. Short break during the callup. Off after the first message

952 647 647 13 13 = =
97572 28675 46157 77429 48154 73802 88266 47195 77340 42912
56639 37860 48028 = =
647 647 13 13 off

10243 kHz, 05-11, 0520 UTC. Briefly FSK CW at the beginning

12211/10243 kHz, 06-11, 0500/0520 UTC

952 647 647 13 13 = =
97572 28675 46157 77429 48154 73802 88266 47195 77340 42912
56639 37860 48028 = =
647 647 13 13
952 801 801 37 37 = =
91534 64324 08959 65944 96924 91967 42325 67036 66168 19510
98679 02071 07946 62890 95378 21187 64724 68312 07760 97622
60485 19616 49721 49389 02838 17616 14177 60261 81718 42349
28048 73518 31866 34174 01506 56883 51242
= = 801 801 37 37 00000

12211/10243 kHz, 07-11, 0500/0520 UTC

952 952 952 00000

12211/10243 kHz, 10-11/11-11, 0500/0520 UTC

952 763 763 54 54 = =
34855 28280 59025 10372 77781 06149 19158 37928 14800 11134
62208 37066 96199 78255 56120 86719 87834 67603 30520 55911
14175 73392 90734 17532 46005 56157 47516 40747 81176 40279
73433 16696 91862 44035 21859 97181 36768 34353 69494 51040
61701 23459 68366 67865 36976 49610 18229 63793 05057 09094
95321 69014 36904 31686
= = 763 763 54 54 00000

12211 kHz, 12-11, 0500 UTC. Off after group 24 of the 2nd msg

10243 kHz, 12-11, 0520 UTC

12211/10243 kHz, 13-11, 0500/0520 UTC

952 180 180 22 22 = =
16169 19621 33358 64054 50648 89559 40598 37103 45758 42459
31976 29096 84649 48635 06907 51235 69014 19941 16617 94500
02941 97794
= = 180 180 22 22
952 347 3477 29 29 = =
37979 78134 01010 41518 77983 71144 22308 85788 70942 07567
30424 95756 64484 77668 12314 59296 38478 58301 14817 98471
17571 19370 95724 18627 85399 38591 16355 64999 36382
= = 347 347 29 29 00000

12211/10243 kHz, 14-11, 0500/0520 UTC

952 952 952 00000

12211/10243 kHz, 17-11/18-11, 0500/0520 UTC

952 681 681 52 52 = =
23686 20260 29505 47979 28373 29375 49086 43936 38555 32965
33853 18945 54915 48580 17237 43550 22139 34485 39752 41298
37817 52932 59124 08119 93092 92130 53873 98984 49729 70340
37539 67803 83290 70533 25741 71461 47125 79062 23260 73966
36840 26763 23320 11631 59944 55945 36269 05220 40362 61693
89846 30018
= = 681 681 52 52 00000

12211/10243 kHz, 19-11, 0500/0520 UTC

952 407 407 26 26 = =
48338 63737 24494 43509 21779 89393 35179 59622 69209 27965
70568 26486 39356 88970 82731 01793 82363 06614 35046 39212
25552 87286 83461 13489 92616 74352
= = 407 407 26 26
952 386 386 29 29 = =
91733 16845 16650 17094 02430 49677 38778 23731 46338 76649
79838 05245 61046 16247 59965 75857 60408 26483 87955 48191
25674 79311 27064 30967 37738 40596 88619 65868 05179
= = 386 386 29 29 00000

12211/10243 kHz, 20-11, 0500/0520 UTC. Same message in reverse order.

952 386 386 29 29 = =
91733 16845 16650 17094 02430 49677 38778 23731 46338 76649
79838 05245 61046 16247 59965 75857 60408 26483 87955 48191
25674 79311 27064 30967 37738 40596 88619 65868 05179
= = 386 386 29 29
952 407 407 26 26 = =
48338 63737 24494 43509 21779 89393 35179 59622 69209 27965
70568 26486 39356 88970 82731 01793 82363 06614 35046 39212
25552 87286 83461 13489 92616 74352
= = 407 407 26 26 00000

12211/10243 kHz, 31-11, 0500/0520 UTC

952 952 952 00000

12211/10243 kHz, 23-11/25-11, 0500/0520 UTC

952 710 710 54 54 = =
81406 62910 44506 39215 53044 81955 41950 27250 46050 54780
63319 11635 12196 89345 68906 71237 07917 53?51 98829 92281
67423 08053 98839 63842 73960 34310 37036 41418 71399 58283
85615 51999 83345 16238 81642 39086 31957 17279 37219 71076
73655 90659 09331 61477 93920 28500 57184 74366 28353 59853
56290 13549 02194 17054
= = 710 710 54 54 00000

12211/10243 kHz, 26-11, 0500/0520 UTC

952 610 610 34 34 = =
74056 16675 22831 62990 56036 34179 72898 48637 73591 32540
37434 34095 10383 42035 02763 00674 96371 04553 13647 23822
41980 13085 14516 98021 56314 71633 92743 71940 16666 11469
03670 92?69 81475 24660
= = 610 610 34 34
952 634 834 17 17 = =
48353 69409 16469 74553 73371 06727 81279 75176 86572 59388
59015 41743 37652 50063 08989 75678 33028
= = 834 834 17 17 00000

12211/10243 kHz, 27-11, 0500/0520 UTC . Same message in reverse order.

952 634 834 17 17 = =
48353 69409 16469 74553 73371 06727 81279 75176 86572 59388
59015 41743 37652 50063 08989 75678 33028
= = 834 834 17 17
952 610 610 34 34 = =
74056 16675 22831 62990 56036 34179 72898 48637 73591 32540
37434 34095 10383 42035 02763 00674 96371 04553 13647 23822
41980 13085 14516 98021 56314 71633 92743 71940 16666 11469
03670 92?69 81475 24660
= = 610 610 34 34 00000

12211/10243 kHz, 28-11, 0500/0520 UTC

952 952 952 00000

M23

10352 kHz, 05/12-11, 0931 UTC

50000 05000 00500 00050 00005 55000 05500 00550 00055 55500 05550 00555 00000 55555 (R25m)

6806 kHz, 08/12-11, 1831 UTC

45859157N6768293E (R25m) No spaces, just one long string.

If these are coordinates, then it's probably 45.859157N 6.768293E near the Mont Blanc

5182 kHz, 08/11-11, 2231 UTC

987654321123456789009876543210123456789000 (R25m) No spaces, just one long string.

13826 kHz, 13/27-11, 1331 UTC

45859157N6768293E (R25m)

5182 kHz, 21/27-11, 1701 UTC

45859157N6768293E (R25m)

9069 kHz, 22/28-11, 0701 UTC

45859157N6768293E (R25m)

M51a / M51b

13-11: FAV22 was testing in morse today. I noticed them around 0900z till ca 1500 sending hand keyed VVV's and some random letters with long breaks between the transmissions. From 20sec till almost an hour. At 1525z I heard them with their normal stream but at the moment (1628z) they are silent

M89 - Chinese Military

5205.5 kHz, 02-11, 1207 UTC. Logged by JPL

5586.5 kHz, 21-11, 1303 UTC

ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =

Daily on 5586.5 kHz. Presumed M89 channel marker. Always on 6 channels, or is it 1 channel and 5 spurs?

5412 kHz, 25-11, 1233 UTC, i.p.

NR 1672/EX 1233 = 9GJ/X7A AR

NR 1672/EX 1233 = S8/X89A AR QSY 62

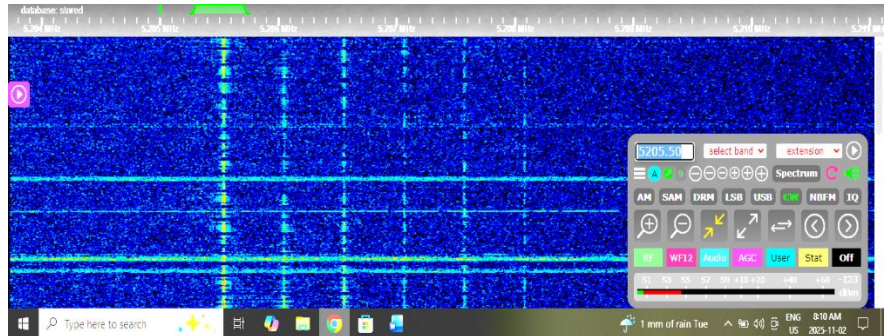
FFF NR 1673/EC 1230 =6/GUC AR QSY

NR 1//EX 12= ../GH AR QSY 63 QSY 63

FFF NR 1674/EX 1239 = O8F1/S4N AR QSY 64

VVV

FFF NR 1675/EX 1242 = A8V1/.1 AR



M95 - Chinese Military

4542//6876 kHz, 05-11, 1131 UTC. Q26 followed by M95

V BNGC DE XS30 NR 1067 CK 053 35 1105 1208 =

NR 1068 CK 045 35 1105 1626 =

NR 1069 CK 054 35 1105 1628 =

NR 1070 CK 754 35 1105 1630 =

4156//9042 kHz, 09-11, 1155 UTC

NR 019 CK 38 35 1111 1446 =

NR 072 CK 21 35 1114 1506 =

NR 28 CK 125 35 1114 1508 =

5656 kHz, 15-11, 1208 UTC

NR 726/CCK CK 141 24 1115 2000 RMKS 2BGM TO WM2R K

NR 726/CCK CK 141 24 1115 2000 RMKS WN2R TO 2BGM K (1224Z)

SVC 2BGM/2020/726 QSL ? K

Note: Same msg sent to each other. Training net? Encrypted FM and TO address.

5485 kHz, 15-11, 1241 UTC, i.p.

MSG NR 88/CCK CK 349 1122 T850 RMKS .554 TO 8953 5332 3856 8964 5431 5.69 =

MSG NR 059/CCK CK 349 54 1115 1910 RMKS 2093 TO 9398 9049 9376 9015 9736 9871 2093 =

MSGNR 959/CCK CK 349 54 1115 1910 RMKS 2093 TO 9308 9049 9376 9015 9836 9781 2993 =

MSG NR 024/CCK CK SVC NR 024/CCK CK 59954 1030 1830 RMKS 8427 TO 1248 4304 1800 4785 4234 4785 4268 4743 4775 8427 =

MSG NR 024/CCK CK 59 43 1030 1830 RMKS 8427 TO 1248 4304 1800 4758 4234 4758 4268 4743 4795 8427 =

MSG NR 024/CCK CK (Unable to copy - training?)

UM04 - PROMRCh

4735 kHz, 01-11, 0803 UTC

VVV VVV PROMRCh = 01 11 =
1000 1000 1050 1220 1730
1200 1140 1180 1350 1870
1400 1110 1150 1310 1800
1600 1130 1180 1340 1860
1800 0940 0980 1120 1550
2000 0650 0680 0770 1070
2200 0490 0510 0570 0750
0000 0480 0490 0540 0690
0200 0480 0490 0540 0710
0400 0480 0490 0540 0710
0600 0390 0410 0460 0640
0800 0820 0870 1020 1490
= ABV =
VVV VVV PROMRCh = 01 11 =
1000 1000 1050 1220 1730
1200 1140 1180 1350 1870
1400 1110 1150 1310 1800
1600 1130 1180 1340 1860
1800 0940 0980 1120 1550
2000 0650 0680 0770 1070
2200 0490 0510 0570 0750
0000 0480 0490 0540 0690
0200 0480 0490 0540 0710
0400 0480 0490 0540 0710
0600 0390 0410 0460 0640
0800 0820 0870 1020 1490
= AR

4735 kHz, 02-11, 0800 UTC

VVV VVV PROMRCh = 02 11 =
1000 1010 1060 1220 1730
1200 1140 1190 1350 1880
1400 1120 1160 1310 1800
1600 1130 1180 1340 1870
1800 0940 0970 1110 1840
2000 0650 0670 0770 1060
2200 0490 0510 0560 0750
0000 0480 0480 0530 0690
0200 0470 0480 0540 0700
0400 0470 0480 0540 0710
0600 0390 0410 0460 0640
0800 0810 0860 1020 1480
= ABV
VVV VVV PROMRCh = 02 11 =
1000 1010 1060 1220 1730
1200 1140 1190 1350 1880
1400 1120 1160 1310 1800
1600 1130 1180 1340 1870
1800 0940 0970 1110 1840
2000 0650 0670 0770 1060
2200 0490 0510 0560 0750
0000 0480 0480 0530 0690
0200 0470 0480 0540 0700
0400 0470 0480 0540 0710
0600 0390 0410 0460 0640
0800 0810 0860 1020 1480
= AR

4735 kHz, 03-11, 0800 UTC

Not heard. No transmission?

4735 kHz, 04-11, 0800 UTC

Not heard. No transmission?

4735 kHz, 05-11, 0806 UTC

VVV VVV PROMRCh = 05 11 =
1000 1010 1060 1230 1750
1200 1150 1200 1360 1890
1400 1120 1160 1320 1820
1600 1140 1180 1350 1880
1800 0900 0940 1070 1480
2000 0620 0650 0740 1020
2200 0480 0490 0550 0730
0000 0460 0470 0520 0680
0200 0470 0470 0530 0690
0400 0470 0480 0530 0700
0600 0380 0400 0460 0630
0800 0810 0860 1020 1490
= ABV =
VVV VVV PROMRCh = 05 11 =
1000 1010 1060 1230 1750
1200 1150 1200 18 EEEE =
1200 1150 1200 1360 1890
1400 1120 1160 1320 1820
1600 1140 1180 1350 1880
1800 0900 0940 1070 1480
2000 0620 0650 0740 1020
2200 0480 0490 0550 0730
0000 0460 0470 0520 0680
0200 0470 0470 0530 0690
0400 0470 0480 0530 0700
0600 0380 0400 0460 0630
0800 0810 0860 1020 1490
= AR

4735 kHz, 06-11, 0800 UTC

Repeated twice
VVV VVV PROMRCh = 06 11 =
1000 1010 1060 1230 1750
1200 1150 1190 1360 1890
1400 1120 1160 1320 1810
1600 1130 1170 1340 1880
1800 0880 0910 1040 1440
2000 0610 0640 0730 1000
2200 0470 0480 0540 0720
0000 0460 0470 0520 0670
0200 0460 0470 0520 0690
0400 0460 0470 0530 0700
0600 0380 0400 0460 0630
0800 0810 0860 1020 1480
= ABV
VVV VVV PROMRCh = 06 11 =
1000 1010 1060 1230 1750
1200 1150 1190 1360 1890
1400 1120 1160 1320 1810
1600 1130 1170 1340 1880
1800 0880 0910 1040 1440
2000 0610 0640 0730 1000
2200 0470 0480 0540 0720
0000 0460 0470 0520 0670
0200 0460 0470 0520 0690
0400 0460 0470 0530 0700
0600 0380 0400 0460 0630
0800 0810 0860 1020 1480
= AR

4735 kHz, 07-11, 0800 UTC

VVV VVV PROMRCh = 07 11 =
1000 1010 1060 1230 1750
1200 1150 1190 1360 1890
1400 1110 0160 1310 1810
1600 1120 1160 1340 1870
1800 0860 0890 1020 1410
2000 0600 0620 0710 0990
2200 0460 0470 0530 0710
0000 0450 0460 0510 0670
0200 0460 0470 0520 0680
0400 0460 0470 0520 0690
0600 0380 0400 0450 0630
0800 0810 0860 1020 1480
= ABV
VVV VVV PROMRCh = 07 11 =
1000 1010 1060 1230 1750
1200 1150 1190 1360 1890
1400 1110 0160 1310 1810
1600 1120 1160 1340 1870
1800 0860 0890 1020 1410
2000 0600 0620 0710 0990
2200 0460 0470 0530 0710
0000 0450 0460 0510 0670
0200 0460 0470 0520 0680
0400 0460 0470 0520 0690
0600 0380 0400 0450 0630
0800 0810 0860 1020 1480
= AR

4735 kHz, 08-11, 0803 UTC

VVV VVV PROMRCh = 08 11 =
1000 1000 1050 1230 1750
1200 1130 1180 1350 1880
1400 1090 1140 1290 1790
1600 1100 1150 1320 1850
1800 0830 0870 0990 1380
2000 0580 0600 0690 0960
2200 0450 0460 0520 0690
0000 0450 0460 0500 0650
0200 0450 0460 0510 0670
0400 0450 0460 0510 0680
0600 0370 0390 0450 0620
0800 0800 0850 1010 1470
= ABV
VVV VVV PRONRCh = 08 11 =
1000 1000 1050 1230 1750
1200 1130 1180 1350 1880
1400 1090 1140 1290 1790
1600 1100 1150 1320 1850
1800 0830 0870 0990 1380
2000 0580 0600 0690 0960
2200 0450 0460 0520 0690
0000 0450 0460 0500 0650
0200 0450 0460 0510 0670
0400 0450 0460 0510 0680
0600 0370 0390 0450 0620
0800 0800 0850 1010 1470
= AR

4735 kHz, 09-11, 0800 UTC**Very weak**

VVV VVV PROMRCh = 09 11 =
 1000 _____ 1230 1760
 1200 1140 1190 1360 1900
 1400 1100 1150 1310 1810
 1600 1110 1160 1330 0860
 1800 0820 0860 0980 1360
 2000 0570 0590 0680 0950
 0000 _____
 2200 0440 0450 0510 0680
 0200 0440 0450 0500 0660
 0400 0440 0460 0510 0680
 0600 0370 0390 0440 0620
 0800 0790 0840 1000 1460
 = ABV
 VVV VVV PROMRCh = 09 11 =
 1000 _____ 1230 1760
 1200 1140 1190 1360 1900
 1400 1100 1150 1310 1810
 1600 1110 1160 1330 0860
 1800 0820 0860 0980 1360
 2000 0570 0590 0680 0950
 2200 0440 0450 0510 0680
 0000 _____
 0200 0440 0450 0500 0660
 0400 0440 0460 0510 0680
 0600 0370 0390 0440 0620
 0800 0790 0840 1000 1460
 = AR

4735 kHz, 10-11, 0800 UTC

VVV VVV PROMRCh = 10 11 =
 1000 1010 1070 1240 1760
 1200 1150 1190 1360 1900
 1400 1110 1150 1310 1810
 1600 1100 1150 1320 1860
 1800 0810 0840 0960 1340
 2000 0560 0590 0670 0930
 2200 0430 0450 0500 0670
 0000 0430 0440 0490 0640
 0200 0430 0440 0490 0660
 0400 0440 0450 0500 0670
 0600 0360 0380 0440 0610
 0800 0790 0840 0000 1460
 = ABV
 VVV VVV PROMRCh = 10 11 =
 1000 1010 1070 1240 1760
 1200 1150 1190 1360 1900
 1400 1110 1150 1310 1810
 1600 1100 1150 1320 1860
 1800 0810 0840 0960 1340
 2000 0560 0590 0670 0930
 2200 0430 0450 0500 0670
 0000 0430 0440 0490 0640
 0200 0430 0440 0490 0660
 0400 0440 0450 0500 0670
 0600 0360 0380 0440 0610
 0800 0790 0840 0000 1460
 = AR

4735 kHz, 11-11, 0800 UTC

VVV VVV PROMRCh = 11 11 =
 1000 1010 1060 1240 1760
 1200 1140 1190 1360 1900
 1400 1100 1150 1310 1810
 1600 1090 1140 1310 1850
 1800 0790 0820 0940 1310
 2000 0550 0580 0660 0920
 2200 0420 0440 0490 0660
 0000 0430 0430 0480 0640
 0200 0430 0440 0490 0650
 0400 0430 0440 0490 0660
 0600 0360 0380 0430 0610
 0800 0780 0830 0990 1450
 = ABV
 VVV VVV PROMRCh = 11 11 =
 1000 1010 1060 1240 1760
 1200 1140 1190 1360 1900
 1400 1100 1150 1310 1810
 1600 1090 1140 1310 1850
 1800 0790 0820 0940 1310
 2000 0550 0580 0660 0920
 2200 0420 0440 0490 0660
 0000 0430 0430 0480 0640
 0200 0430 0440 0490 0650
 0400 0430 0440 0490 0660
 0600 0360 0380 0430 0610
 0800 0780 0830 0990 1450
 = AR

4735 kHz, 12-11, 0800 UTC

VVV VVV PROMRCh = 13 11 =
 1000 1010 1060 1240 1770
 1200 1140 1190 1360 1900
 1400 1100 1150 1310 1810
 1600 1090 1140 1310 1850
 1800 0770 0810 0920 1290
 2000 0540 0570 0650 0910
 2200 0420 0430 0480 0650
 0000 0420 0430 0480 0630
 0200 0420 0430 0480 0640
 0400 0430 0440 0490 0660
 0600 0360 0370 0430 0610
 0800 0780 0830 0990 1450
 = ABV
 VVV VVV PROMRCh = 13 11 =
 1000 1010 1060 1240 1770
 1200 1140 1190 1360 1900
 1400 1100 1150 1310 1810
 1600 1090 1140 1310 1850
 1800 0770 0810 0920 1290
 2000 0540 0570 0650 0910
 2200 0420 0430 0480 0650
 0000 0420 0430 0480 0630
 0200 0420 0430 0480 0640
 0400 0430 0440 0490 0660
 0600 0360 0370 0430 0610
 0800 0780 0830 0990 1450
 = AR

4735 kHz, 13-11, 0802 UTC

VVV VVV PROMRCh = 13 11 =
 1000 1020 1070 1250 1780
 1200 1140 1190 1360 1890
 1400 1100 1150 1300 1820
 1600 1090 1140 1310 1850
 1800 0760 0790 0900 1260
 2000 0530 0560 0640 0890
 2200 0410 0420 0470 0640
 0000 0410 0420 0470 0620
 0200 0420 0430 0480 0640
 0400 0420 0440 0490 0660
 0600 0360 0370 0430 0600
 0800 0780 0830 0990 1450
 = ABV =
 1000 1020 1070 1250 1780
 1200 1140 1190 1360 1890
 1400 1100 1150 1300 1820
 1600 1090 1140 1310 1850
 1800 0760 0790 0900 1260
 2000 0530 0560 0640 0890
 2200 0410 0420 0470 0640
 0000 0410 0420 4 EEEEEEE =
 0000 0410 0420 0470 0620
 0200 0420 0430 0480 0640
 0400 0420 0440 0490 0660
 0600 0360 0370 0430 0600
 0800 04 EEEEEEE =
 0800 0780 0830 0990 1450
 = AR

4735 kHz, 14-11, 0800 UTC

VVV VVV PROMRCh = 14 11 =
 1000 0960 1020 1200 1720
 1200 1090 1140 1320 1850
 1400 1060 1100 1260 1770
 1600 1040 1090 1270 1800
 1800 0720 0750 0860 1200
 2000 0510 0530 0610 0860
 2200 0390 0410 0460 0620
 0000 0400 0410 0460 0600
 0200 0400 0410 0460 0620
 0400 0400 0420 0470 0630
 0600 0350 0360 0420 0600
 0800 0760 0810 0980 1430
 = ABV
 VVV VVV PROMRCh = 14 11 =
 1000 0960 1020 1200 1720
 1200 1090 1140 1320 1850
 1400 1060 1100 1260 1770
 1600 1040 1090 1270 1800
 1800 0720 0750 0860 1200
 2000 0510 0530 0610 0860
 2200 0390 0410 0460 0620
 0000 0400 0410 0460 0600
 0200 0400 0410 0460 0620
 0400 0400 0420 0470 0630
 0600 0350 0360 0420 0600
 0800 0760 0810 0980 1430
 = AR

4735 kHz, 15-11, 0800 UTC

VVV VVV PROMRCh = 15 11 =
 1000 1030 1080 1260 1800
 1200 1150 1200 1370 1910
 1400 1100 1150 1310 1830
 1600 1070 1120 1300 1840
 1800 0720 0750 0870 1210
 2000 0510 0530 0610 0850
 2200 0390 0410 0460 0620
 0000 0400 0410 0460 0610
 0200 0400 0410 0470 0620
 0400 0400 0420 0470 0630
 0600 0350 0360 0420 0600
 0800 0770 0820 0980 1430
 = ABV
 VVV VVV PROMRCh = 15 11 =
 1000 1030 1080 1260 1800
 1200 1150 1200 1370 1910
 1400 1100 1150 1310 1830
 1600 1070 1120 1300 1840
 1800 0720 0750 0870 1210
 2000 0510 0530 0610 0850
 2200 0390 0410 0460 0620
 0000 0400 0410 0460 0610
 0200 0400 0410 0470 0620
 0400 0400 0420 0470 0630
 0600 0350 0360 0420 0600
 0800 0770 0820 0980 1430
 = AR

4735 kHz, 16-11, 0800 UTC

VVV VVV PROMRCh = 16 11 =
 1000 1030 1080 1260 1810
 1200 1150 1190 1370 1920
 1400 1100 1150 1310 1830
 1600 1070 1120 1300 1840
 1800 0710 0740 0840 1180
 2000 0500 0520 0600 0840
 2200 0390 0400 0450 0610
 0000 0400 0410 0450 0600
 0200 0400 0410 0460 0620
 0400 0400 0410 0460 0630
 0600 0340 0360 0420 0590
 0800 0760 0810 0980 1430
 = ABV
 VVV VVV PROMRCh = 16 11 =
 1000 1030 1080 1260 1810
 1200 1150 1190 1370 1920
 1400 1100 1150 1310 1830
 1600 1070 1120 1300 1840
 1800 0710 0740 0840 1180
 2000 0500 0520 0600 0840
 2200 0390 0400 0450 0610
 0000 0400 0410 0450 0600
 0200 0400 0410 0460 0620
 0400 0400 0410 0460 0630
 0600 0340 0360 0420 0590
 0800 0760 0810 0980 1430
 = AR

4735 kHz, 17-11, 0800 UTC VVV VVV PROMRCh = 17 11 = 1000 1030 1080 1260 1810 1200 1150 1200 1370 1920 1400 1100 1150 1310 1830 1600 1060 1110 1290 1840 1800 0690 0720 0830 1160 2000 0490 0510 0590 0830 2200 0380 0390 0450 0610 0000 0390 0400 0450 0600 0200 0390 0400 0460 0610 0400 0390 0410 0460 0620 0600 0340 0360 0410 0590 0800 0760 0810 0970 1430 = ABV VVV VVV PROMRCh = 17 11 = 1000 1030 1080 1260 1810 1200 1150 1200 1370 1920 1400 1100 1150 1310 1830 1600 1060 1110 1290 1840 1800 0690 0720 0830 1160 2000 0490 0510 0590 0830 2200 0380 0390 0450 0610 0000 0390 0400 0450 0600 0200 0390 0400 0460 0610 0400 0390 0410 0460 0620 0600 0340 0360 0410 0590 0800 0760 0810 0970 1430 = AR	4735 kHz, 18-11, 0800 UTC VVV VVV PROMRCh = 18 11 = 1000 1030 1090 1270 1810 1200 1150 1190 1370 1920 1400 1100 1150 1310 1830 1600 1070 1120 1300 1840 1800 0680 0710 0810 1140 2000 0480 0500 0580 0810 2200 0380 0390 0440 0600 0000 0390 0400 0440 0590 0200 0390 0400 0450 0600 0400 0390 0400 0450 0620 0600 0340 0350 0410 0590 0800 0760 0810 0970 1420 = ABV VVV VVV PROMRCh = 18 11 = 1000 1030 1090 1270 1810 1200 1150 1190 1370 1920 1400 1100 1150 1310 1830 1600 1070 1120 1300 1840 1800 0680 0710 0810 1140 2000 0480 0500 0580 0810 2200 0380 0390 0440 0600 0000 0390 0400 0440 0590 0200 0390 0400 0450 0600 0400 0390 0400 0450 0620 0600 0340 0350 0410 0590 0800 0760 0810 0970 1420 = AR	4735 kHz, 19-11, 0800 UTC VVV VVV PROMRCh = 19 11 = 1000 1030 1080 1270 1810 1200 1140 1190 1370 1920 1400 1100 1150 1310 1840 1600 1070 1120 1300 1850 1800 0670 0700 0800 1110 2000 0470 0490 0570 0790 2200 0380 0390 0430 0590 0000 0380 0390 0440 0580 0200 0390 0400 0450 0600 0400 0390 0400 0450 0620 0600 0340 0360 0410 0590 0800 0750 0800 0970 1420 = ABV VVV VVV PROMRCh = 19 11 = 1000 1030 1080 1270 1810 1200 1140 1190 1370 1920 1400 1100 1150 1310 1840 1600 1070 1120 1300 1850 1800 0670 0700 0800 1110 2000 0470 0490 0570 0790 2200 0380 0390 0430 0590 0000 0380 0390 0440 0580 0200 0390 0400 0450 0600 0400 0390 0400 0450 0620 0600 0340 0360 0410 0590 0800 0750 0800 0970 1420 = AR	4735 kHz, 20-11, 0800 UTC VVV VVV PROMRCh = 20 11 = 1666 1636 1686 1276 1826 1266 1146 1196 1366 1916 1466 1696 1146 1316 1836 1666 1666 1116 1366 1846 1866 6656 6686 1786 1690 2666 6466 6486 6566 6786 2266 6366 6376 6426 6586 0666 6376 6396 6636 6586 6266 6386 6396 6456 6666 6466 6386 6466 6456 6616 6666 6336 6466 6410 6596 6866 6756 6866 6966 1416 = ABV VVV VVV PROMRCh = 20 11 = 1666 1636 1686 1276 1826 1266 1146 1196 1366 1916 1466 1696 1146 1316 1836 1666 1666 1116 1366 1846 1866 6656 6686 1786 1690 2666 6466 6486 6566 6786 2266 6366 6376 6426 6586 0666 6376 6396 6636 6586 6266 6386 6396 6456 6666 6466 6386 6466 6456 6616 6666 6336 6466 6410 6596 6866 6756 6866 6966 1416 = AR
4735 kHz, 21-11, 0800 UTC VVV VVV PROMRCh = 21 11 = 1000 1030 1080 1260 1810 1200 1130 1180 1360 1910 1400 1090 1130 1300 1820 1600 1060 1100 1290 1840 1800 0640 0660 0760 1060 2000 0450 0470 0550 0770 2200 0360 0370 0420 0570 0000 0370 0380 0430 0570 0200 0380 0390 0440 0590 0400 0380 0400 0450 0610 0600 0330 0350 0410 0490 0800 0740 0790 0950 1400 = ABV = VVV VVV PROMRCh = 21 11 = 1000 1030 1080 1260 1810 1200 1130 1180 1360 1910 1400 1090 1130 1300 1820 1600 1060 1100 1290 1840 1800 0640 0660 0760 1060 2000 0450 0470 0550 0770 2200 0360 0370 0420 0570 0000 0370 0380 0430 0570 0200 0380 0390 0440 0590 0400 0380 0400 0450 0610 0600 0330 0350 0410 0490 0800 0740 0790 0950 1400 = AR	4735 kHz, 22-11, 0800 UTC VVV VVV PROMRCh = 22 11 = 1000 1020 1080 1260 1810 1200 1130 1180 1350 1900 1400 1090 1130 1300 1810 1600 1050 1100 1280 1830 1800 0630 0660 0760 1060 2000 0450 0470 0550 0770 2200 0300 0370 0420 0570 0000 0370 0380 0430 0570 0200 0380 0390 0440 0590 0400 0380 0390 0450 0610 0600 0330 0350 0410 0590 0800 0740 0790 0950 1400 = AVB VVV VVV PROMRCh = 22 11 = 1000 1020 1080 1260 1810 1200 1130 1180 1350 1900 1400 1090 1130 1300 1810 1600 1050 1100 1280 1830 1800 0630 0660 0760 1060 2000 0450 0470 0550 0770 2200 0300 0370 0420 0570 0000 0370 0380 0430 0570 0200 0380 0390 0440 0590 0400 0380 0390 0450 0610 0600 0330 0350 0410 0590 0800 0740 0790 0950 1400 = AR	4375 kHz, 23-11, 0800 UTC VVV VVV PROMRCh = 23 11 = 1000 1020 1080 1260 1800 1200 1130 1180 1360 1900 1400 1080 1130 1000 1820 1600 1050 1100 1280 1830 1800 0630 0660 0760 1060 2000 0450 0470 0550 0760 2200 0360 0360 0420 0570 0000 0370 0380 0430 0570 0200 0380 0390 0440 0590 0400 0380 0400 0450 0610 0600 0330 0350 0410 0580 0800 0740 0780 0940 1400 = ABV VVV VVV PROMRCh = 23 11 = 1000 1020 1080 1260 1800 1200 1130 1180 1360 1900 1400 1080 1130 1000 1820 1600 1050 1100 1280 1830 1800 0630 0660 0760 1060 2000 0450 0470 0550 0760 2200 0360 0360 0420 0570 0000 0370 0380 0430 0570 0200 0380 0390 0440 0590 0400 0380 0400 0450 0610 0600 0330 0350 0410 0580 0800 0740 0780 0940 1400 = AR	4735 kHz, 23-11, 0800 UTC VVV VVV PROMRCh = 24 11 = 1000 1000 1050 1240 1780 1200 1100 1150 1330 1880 1400 1060 1110 1270 1790 1600 1030 1080 1260 1800 1800 0620 0650 0740 1040 2000 0440 0460 0540 0750 2200 0350 0360 0410 0570 0000 0370 0380 0420 0570 0200 0380 0390 0440 0590 0400 0380 0400 0450 0610 0600 0330 0350 0410 0580 0800 0730 0780 0940 1380 = ABV VVV VVV PROMRCh = 24 11 = 1000 1000 1050 1240 1780 1200 1100 1150 1330 1880 1400 1060 1110 1270 1790 1600 1030 1080 1260 1800 1800 0620 0650 0740 1040 2000 0440 0460 0540 0750 2200 0350 0360 0410 0570 0000 0370 0380 0420 0570 0200 0380 0390 0440 0590 0400 0380 0400 0450 0610 0600 0330 0350 0410 0580 0800 0730 0780 0940 1380 = AR

4735 kHz, 25-11, 0800 UTC

VVV VVV PROMRCh = 25 11 =
 1000 1010 1060 1250 1780
 1200 1110 1160 1340 1890
 1400 1070 1120 1280 1800
 1600 1040 1090 1280 1820
 1800 0630 0660 0750 1050
 2000 0440 0460 0540 0760
 2200 0350 0360 0420 0570
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0380 0390 0450 0610
 0600 0330 0350 0410 0580
 0800 0730 0780 0940 1380
 = ABV

VVV VVV PROMRCh = 25 11 =
 1000 1010 1060 1250 1780
 1200 1110 1160 1340 1890
 1400 1070 1120 1280 1800
 1600 1040 1090 1280 1820
 1800 0630 0660 0750 1050
 2000 0440 0460 0540 0760
 2200 0350 0360 0420 0570
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0380 0390 0450 0610
 0600 0330 0350 0410 0580
 0800 0730 0780 0940 1380
 = AR

4735 kHz, 28-11, 0800 UTC

VVV VVV PROMRCh = 28 11 =
 1000 0990 1040 1230 1770
 1200 1090 1150 1320 1860
 1400 1060 1110 1280 1800
 1600 1030 1080 1260 1800
 1800 0620 0650 0750 1050
 2000 0440 0460 0540 0750
 2200 0360 0370 0420 0570
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0400 0450 0610
 0600 0340 0360 0420 0590
 0800 0720 0770 0930 1370
 = ABV

VVV VVV PROMRCh = 28 11 =
 1000 0990 1040 1230 1770
 1200 1090 1150 1320 1860
 1400 1060 1110 1280 1800
 1600 1030 1080 1260 1800
 1800 0620 0650 0750 1050
 2000 0440 0460 0540 0750
 2200 0360 0370 0420 0570
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0400 0450 0610
 0600 0340 0360 0420 0590
 0800 0720 0770 0930 1370
 = AR

4735 kHz, 26-11, 0800 UTC

VVV VVV PROMRCh = 26 11 =
 1000 1000 1050 1230 1780
 1200 1110 1160 1330 1880
 1400 1060 1110 1280 1800
 1600 1040 1090 1270 1820
 1800 0630 0660 0760 1050
 2000 0440 0460 0540 0760
 2200 0350 0360 0420 0570
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0380 0400 0450 0610
 0600 0330 0350 0410 0580
 0800 0720 0770 0930 1380
 = ABV

VVV VVV PROMRCh = 26 11 =
 1000 1000 1050 1230 1780
 1200 1110 1160 1330 1880
 1400 1060 1110 1280 1800
 1600 1040 1090 1270 1820
 1800 0630 0660 0760 1050
 2000 0440 0460 0540 0760
 2200 0350 0360 0420 0570
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0380 0400 0450 0610
 0600 0330 0350 0410 0580
 0800 0720 0770 0930 1380
 = AR

4735 kHz, 29-11, 0800 UTC

VVV VVV PROMRCh = 29 11 =
 1000 0980 1040 1220 1750
 1200 1090 1130 1310 1850
 1400 1050 1100 1270 1780
 1600 1020 1070 1250 1790
 1800 0610 0640 0740 1030
 2000 0440 0460 0530 0750
 2200 0360 0370 0420 0570
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0400 0450 0620
 0600 0340 0360 0420 0590
 0800 0710 0760 0920 1360
 = ABV

VVV VVV PROMRCh = 29 11 =
 1000 0980 1040 1220 1750
 1200 1090 1130 1310 1850
 1400 1050 1100 1270 1780
 1600 1020 1070 1250 1790
 1800 0610 0640 0740 1030
 2000 0440 0460 0530 0750
 2200 0360 0370 0420 0570
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0400 0450 0620
 0600 0340 0360 0420 0590
 0800 0710 0760 0920 1360
 = AR

4735 kHz, 27-11, 0800 UTC

VVV VVV PROMRCh = 27 11 =
 1000 1000 1050 1240 1780
 1200 1110 1150 1330 1910
 1400 1070 1120 1290 1800
 1600 1040 1090 1270 1820
 1800 0630 0660 0760 1050
 2000 0440 0460 0540 0760
 2200 0360 0370 0420 0570
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0380 0400 0450 0610
 0600 0330 0350 0410 0590
 0800 0720 0770 0930 1370
 = ABV

VVV VVV PROMRCh = 27 11 =
 1000 1000 1050 1240 1780
 1200 1110 1150 1330 1910
 1400 1070 1120 1290 1800
 1600 1040 1090 1270 1820
 1800 0630 0660 0760 1050
 2000 0440 0460 0540 0760
 2200 0360 0370 0420 0570
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0380 0400 0450 0610
 0600 0330 0350 0410 0590
 0800 0720 0770 0930 1370
 = AR

4375 kHz, 30-11, 0800 UTC

VVV VVV PROMRCh = 30 11 =
 1000 0980 1030 1210 1750
 1200 1080 1130 1310 1850
 1400 1050 1090 1260 1770
 1600 1020 1070 1250 1790
 1800 0610 0640 0740 1020
 2000 0440 0460 0530 0750
 2200 0360 0370 0420 0580
 0000 0370 0380 0430 0570
 0200 0380 0390 0440 0600
 0400 0390 0400 0460 0620
 0600 0340 0360 0420 0590
 0800 0710 0760 0920 1360
 = ABV

VVV VVV PROMRCh = 30 11 =
 1000 0980 1030 1210 1750
 1200 1080 1130 1310 1850
 1400 1050 1090 1260 1770
 1600 1020 1070 1250 1790
 1800 0610 0640 0740 1020
 2000 0440 0460 0530 0750
 2200 0360 0370 0420 0580
 0000 0370 0380 0430 0570
 0200 0380 0390 0440 0600
 0400 0390 0400 0460 0620
 0600 0340 0360 0420 0590
 0800 0710 0760 0920 1360
 = AR

DIGITAL MODES

F01

F01 – FSK 200/500 Mon-Fri schedule

12177/10671/8024 kHz, 03-11, 1015/1025/1035 UTC

44646 46686 35600 98408 98982 22040 40624 87158 23758 36475
38107 38729 26910 41870 53101 51314 85233 04443 04646 55866
46618 48988 09399 69120 90022 92456 23444 46675 45866 66797
46691 20968 00101 31631 32637 14346 11160 01026 35680 09998
79000 62322 13232 63334 72475 85455 19689 06898 68999 49900
21013 11533 41233 04366 15767 56768 87988 89812 08110 30011
32233 12334 13456 65669 69257 74818 79201 33147 52458 13535
91795 39858 96379 68998 70992 33106 95251 92584 44445 44657
66676 77868 49008 99200 91981 61132 72325 94446 95467 27608
76878 80092 04032 50834 01325 14294 66542 95675 05578 67889
28939 59200 11121 62145 83333 54455 95566 16668 06880 07899
61005 80121 32634 76448 44148 35686 66278 08088 08900 09111
11223 11247 72434 54605 24577 28678 47781 73919 59004 22234
13225 13355 14757 37767 08708 07201 49919 11710 73136 82224
43344 53556 57689 97717 93301 70940 70152 42552 62445 04446
45635 14349 74571 36628 72848 30101 55468 85485 24336 57596
70767 67980 77059 90915 41112 53323 83304 24446 65666 16879
98710 27774 19784 34915 59322 13344 84745 87667 96877 98898
33314 44934 14551 18867 26176 21889 89900 29009 40316 15353
63436 53857 87667 67789 87818 28018 02001 01222 31333 84252
42566 96675 36688 08809 18920 19023 15465 26378 53444 94555
46766 57879 98199 00922 11004 12379 49753 44544 54578 94676
87788 76994 69000 11141 92233 83254 43744 66566 66700 77898
88009 09090 20312 02221 76296 34445 55565 76757 77788 88491
59201 30122 63232 95434 53478 84265 38988 76288 78229 91051
20112 81235 03445 34746 45867 97687 07798 18190 29004 20101
64234 44664 14554 76876 36978 28818 18806 20014 30322 24353
53344 74546 25576 27878 68795 09900 50101 33459 62352 44467
83666 66598 07798 98889 10100 19017 41113 62444 23475 67858
70996 87888 08909 79914 59221 41224 42334 34445 03691 86787
97989 08099 39010 50201 41255 50646 66395 86770 21727 37889
12920 10349 31232 76233 22335 74555 75669 96667 98299 28901
29011 33212 52325 63339 97558 76667 16780 09889 69810 42210
30155 72334 25477 66875 85676 46778 17990 49026 00342 32122
62343 63446 95455 85767 17788 09008 30921 31121 41122 73361
63555 87896 85857 07789 17900 29330 31001 41626 92554 69455
27566 36706 76849 20810 21401 41032 53324 63234 03345 85576
07668 97888 28890 21200 66412 81632 72344 27455 87955 15797
09709 20990 32030 00142 51255 62434 04577 96677 80778 09999
78900 59903 40412 82453 83646 15646 47678 07788 68881 19010
50901 51223 83439 82455 94749 08567 07803 17990 29911 32211
61234 62443 04464 86550 08678 27818 19882 60000 43172 11262
62457 03555 07576 72423 00000 +++++

12177/10671/8024 kHz, 04-11, 1015/1025/1035 UTC

10614 54284 29343 34697 69294 94154 66407 35433 84338 97584
81533 85605 31230 28877 05680 62231 81256 50509 56386 53782
55563 37120 26451 97264 79291 89979 75031 27504 96759 56636
44632 55826 33618 85428 52407 20320 16907 69543 29215 74869
88968 60321 04871 09141 76144 54476 63016 16721 98188 84935
14071 53575 29348 69981 59670 54041 47037 00376 47062 96512
29051 69166 36869 36034 85245 73852 32673 73067 00000

07215 82676 10260 94103 40748 24981 95651 93838 20380 13379

16084 24451 96853 18556 84825 26482 18838 88714 42181 72914
83555 46468 58707 79011 54697 22158 20561 22790 33557 53285
45406 18334 94329 04750 02334 09118 19507 89562 34217 73546
96302 94750 05948 59885 60059 42114 26991 92769 95555 38537
21686 18491 32171 95539 45750 81234 93829 22751 72402 47458
89664 24999 96557 20618 56350 57697 30521 13393 88025 20229
89631 69631 14755 91991 91273 53192 15463 40824 15714 45854
76273 58462 02191 21511 30209 02756 78689 88817 39157 51293
48850 19472 04078 96148 84447 04346 14358 34428 96861 04621
72268 34301 86004 90137 53459 81214 90114 82142 89419 74109
00000 +++++ +++++

12177/10671/8024 kHz, 05-11, 1015/1025/1035 UTC

90416 92418 26562 08214 47442 04897 56084 43337 19898 47751
55173 72524 82881 89611 07671 93476 92357 22576 10473 47675
15764 59009 76253 27771 37722 03824 13641 72185 01776 06944
08260 64101 74106 25625 53101 77037 40161 51327 01638 34196
70119 80830 42136 73761 14157 36270 16595 37347 13420 63788
32754 23772 37670 65486 42597 75362 85520 44364 85809 88952
08208 66937 21603 68785 42841 73216 97366 63493 66055 88734
27562 54349 04016 18319 81317 86975 59708 26283 02152 63693
43447 32734 08253 38710 17551 80683 46775 83320 91108 53638
00572 13320 25785 48379 70800 95807 38601 32593 83856 77577
12614 42057 96050 02270 51458 97068 94484 08492 38664 42791
17551 26069 87700 43219 43499 12643 93674 83444 20515 97774
22638 59905 36725 26769 99417 63318 53594 21377 79927 83966
51133 99599 18886 94046 58362 21745 68878 86745 67464 54947
71716 76749 55064 73338 28003 91862 59088 36037 55873 10428
84604 10170 74823 24237 37127 31094 75577 31614 06788 17015
61927 90362 51822 80184 75484 85266 54817 01873 39273 89828
50145 63294 81116 26926 46030 49678 22741 58095 89673 69670
45540 56104 48894 57259 68941 40518 08701 48403 02298 80940
06249 49554 56267 97617 52609 40265 24585 14095 14796 77066
72199 41606 56482 90795 90682 99898 60844 94578 06864 04161
83974 44635 55633 72755 12299 21112 52831 35444 22429 21115
29178 46783 66906 81141 11176 34382 34244 71090 59925 36718
56744 27049 03779 10184 64488 15026 25791 10062 08967 42841
91882 75115 04772 62335 30671 70477 62793 29108 00896 68526
13359 11962 07376 72441 42751 69234 51448 12119 91539 34219
26806 67140 88169 76856 96694 96475 16243 33875 13384 79617
38922 24582 65871 98827 28908 94486 66735 17177 77416 53941
14098 32085 80598 03988 89614 09025 26838 66604 78436 25102
33369 61525 22089 77173 05642 96839 40191 34209 17886 65542
81964 38585 38296 65227 93464 85979 47290 83117 11469 38575
22270 13615 19966 51254 87319 00550 30179 15458 51284 21335
70060 50420 82670 55192 94200 96444 94792 02660 50077 89926
39619 48541 61599 24793 33734 85516 15863 30063 64885 40571
64079 18205 52517 71448 72588 83981 60755 25318 84915 58476
87268 76821 80798 47971 76442 87719 43127 12393 30318 55289
68723 62979 15708 41698 83915 83882 90949 01504 50827 07386
00726 49499 75336 97410 12385 36072 52617 21027 92203 22273
11234 12627 45032 71773 41695 60469 65748 01915 20421 70270
75974 61017 65063 85533 44479 24150 82104 69310 14713 24551
92680 77065 87902 62868 47569 75350 35160 61428 67266 85960
37022 55710 68107 60272 73879 40212 60352 13439 15711 10903
29193 73140 84581 71440 34592 75425 00000 +++++ +++++

12177/10671/8024 kHz, 06-11, 1015/1025/1035 UTC

02943 41563 87382 00402 11786 58584 59067 04497 24581 03983
92292 97410 01122 36665 56283 73684 31171 65773 73387 03233
30206 73164 50221 80833 55576 37937 19070 26869 79002 42700
87977 31541 76370 66269 22971 59720 20739 92473 10843 58632
89515 89761 75946 35558 21720 41301 49423 97747 86292 30249

14317 71724 47372 09887 75000 44174 37481 13307 24359 91599
74559 82339 07158 90936 83788 20401 03050 28311 10129 98956
77640 76071 00000

07655 78889 19145 91328 84340 22691 69988 54639 95890 02982
21927 55701 52861 70267 91120 68547 66607 62258 45797 07630
50965 31021 35713 43876 46292 81932 80699 16160 20560 97893
85471 74113 27186 47235 72903 13234 24289 98747 52940 88202
85057 92281 69346 15372 53925 38353 91469 00346 28225 45185
43216 51598 70026 96634 86419 66060 77830 29428 00788 97623
72823 83159 27626 44483 79361 21475 69509 16274 04381 47884
63108 66925 45427 64645 67337 04172 81983 48144 34033 11676
29781 39225 53325 77083 00000 +++++ +++++ +++++

12177/10671/8024 kHz, 07-11, 1015/1025/1035 UTC

00000 +++++ +++++

12177/10671/8024 kHz, 10-11, 1015/1025/1035 UTC

63023 59845 29307 _____
29368 56372 27981 26901 40556 02477 97120 04643 84296 70459
54029 27203 52321 24480 15167 94447 48053 40823 53412 10177
38693 07802 26241 09223 34518 20270 07153 65890 74798 88319
90320 44681 25183 _____ 16198 87042 35321 90484
77543 06095 25329 79771 47871 15385 50934 58178 64752 88769
86482 97697 64494 64503 81812 15368 46518 85854 59100 26243
81966 62915 15660 26150 71247 79043 49892 90172 80181 90364
52561 97789 09452 91784 05918 20610 77051 47939 55572 33652
18391 12523 54103 60856 33783 84437 82555 92384 37970 74191
52256 29840 91395 78988 99263 53340 17893 89952 13939 63386
38499 79912 73680 88263 76057 94519 34563 36630 10317 99846
51599 39216 88203 45764 12339 42316 18957 67105 13465 02760
08815 22476 60093 81552 14937 33303 12459 20381 23261 91836
19678 79146 79958 37216 93833 75176 31204 73044 91586 60019
50927 24902 95496 94780 61240 61234 12230 09936 75230 26068
29853 60543 16802 56967 01399 12815 _____ 22962
53305 51968 90975 94276 76176 57868 78486 23360 86548 71128
34894 71456 34953 40964 64060 21818 32360 70738 00353 09049
40627 88950 57341 31350 77497 92982 40272 81620 15836 64034
14488 58338 81794 76684 47007 _____
_____ 24297 87310 96895 31280 29956 54396 43361 04238 25141
54185 46320 35985 97438 91865 32353 64276 34906 86123 72529
80961 54292 _____ 11383 02264 32754 33430 41907
54721 20677 33529 06462 05905 59178 41604 37860 83924 84091
87358 14374 03941 64983 64954 07283 99672 32292 08328 _____
_____ 24298 68235 40522 66547 52562
51765 66792 28798 57285 37542 80599 93055 70770 50043 67472
90376 69920 00021 67426 89011 44829 13997 88294 17323 51465
98653 99316 62974 91698 56078 49670 40576 57202 12784 87626
44972 64658 39459 78024 32365 30115 66509 98749 96457 18440
75094 14654 31797 28818 68335 52354 01530 22215 22387 24349
51688 61737 82068 75881 39358 21888 50714 53008 66656 27539
28970 15282 37965 08682 82193 41510 82451 61810 21152 02013
09115 93910 65716 _____ 26225 76274 64558 _____
_____ 61184 65694
90358 _____ 37217 66397 26577
60002 20552 69345 63206 05248 20467 53282 84271 15427 85364
96514 37823 88376 67394 49620 00839 04480 20892 21353 77517
61841 96993 45507 02339 _____
_____ 59448 54880 50998 44085
85488 64867 _____ 11102 78413 00000 +++++ +++++

12177/10671/8024 kHz, 11-11, 1015/1025/1035 UTC

05907 48819 06731 16969 51622 20106 34532 04690 77984 23622

05741 01264 10999 48084 16331 52533 37824 57743 10163 88735
50815 66498 92355 88945 83943 21711 62277 37924 75332 60667
14665 25585 31471 73442 82094 53611 29003 65154 17598 41767
15071 82391 40501 51113 92121 00003 94143 66300 98125 56444
88845 04129 18140 57257 28556 40573 88163 38075 44639 73445
77209 18743 85222 62890 58539 03238 33551 16905 05994 05080
53781 14057 76363 02916 87653 80608 63722 55966 50486 64214
36684 34025 99913 71386 94492 41695 75826 60928 72981 21555
84631 49351 95825 09302 58395 79095 00000

41776 14142 97406 61571 49835 94591 91746 50249 60831 01183
50610 13465 18171 78063 05362 36138 +1950 78233 58578 94018
60252 63760 03867 46527 42096 14290 87188 37120 67990 23552
08124 93349 99017 88534 84506 43831 50394 21034 28894 94282
40435 36236 10271 29840 70873 98057 99456 35830 99461 25896
21639 54178 90792 92501 64472 17664 56288 67648 15180 29179
19276 87291 25101 78206 66111 52907 25113 11687 69263 90680
40372 01467 93314 25266 77804 75521 19812 47765 84797 05128
51896 82646 02507 65187 84655 83264 62243 80087 00000 +++++
+++++ +++++

12177/10671/8024 kHz, 12-11, 1015/1025/1035 UTC

26218 24307 06856 96165 30731 94655 49765 27759 80103 29294
15639 89599 96862 76966 03750 30750 64883 24794 63444 41675
30113 45653 49805 26278 29520 86672 84873 01771 59206 53526
97877 93570 17611 70221 42904 17391 84751 19052 17444 65743
23442 90428 30257 41002 13415 97247 91995 02260 54294 33506
27011 18119 98355 81836 29791 42644 99000 99660 14471 56638
85902 38640 30840 41441 27437 71171 45289 77430 68483 70230
10149 84426 48113 47393 69826 46169 43806 11827 77213 86070
42420 21823 18773 86421 80288 58444 71760 68244 11234 09328
42013 73979 88736 23294 55738 20186 98202 15443 03746 12453
00275 27427 61560 39707 71099 72588 33848 90098 50525 20641
96598 55657 34129 01597 35497 17909 70040 33618 03925 31632
46483 04479 49030 48948 80977 61331 79299 50935 47144 88455
72068 78940 00034 77691 44419 82792 85941 21227 35883 28099
47622 81442 76408 29806 60855 17493 38009 04219 63301 73312
93554 56670 61570 56734 31114 47011 27458 64412 97311 00133
19281 32230 68118 53686 89235 15883 70530 60203 62746 31332
03557 85793 00710 09795 31961 72615 80595 46990 51200 57303
57326 51294 46988 62537 89882 20524 97922 03947 44572 02006
94625 79533 10889 15648 73814 33799 90911 44676 90760 13774
48179 23742 78554 59117 26963 79075 67640 93498 77906 00378
64023 09425 50929 49144 09622 63722 41368 33092 73173 25846
00275 01395 45156 46204 44808 40407 35143 36698 29661 74555
95037 80649 65470 02107 16628 14319 95120 20472 76890 47178
63909 20760 29493 13158 44490 56253 65915 70028 02539 14494
94646 89113 14087 47675 11879 02527 70440 41016 62149 00114
31643 23821 12355 93289 14414 52888 87586 87956 25482 22987
42220 33691 76287 84052 68768 71392 39949 69827 39394 86569
36468 67599 14186 40465 57089 83753 46831 96192 63749 84797
28941 82091 24580 18582 10765 79464 71363 45363 75307 86903
89910 33433 35197 98386 79285 98981 50746 87328 40809 94881
92641 13774 82792 78089 97696 96929 51925 10350 91115 20209
27264 71885 73691 60988 37756 92769 73851 62257 89236 31616
77726 88345 11832 56438 16455 31927 63712 07090 32872 64478
52138 44247 27306 47380 57710 14457 25148 45848 72802 85998
74895 12892 90071 35227 98634 35474 02019 88097 18397 60064
97513 46549 06843 39779 66231 54441 35688 70285 46939 82729
20330 06670 80562 38565 84097 78440 53983 28008 90569 44874
45488 27043 17397 57872 07825 40581 70065 24530 49777 54137
59038 86594 02238 07874 88718 59015 79662 47693 31654 94749
72897 33066 86448 68038 34273 06291 42790 93320 40934 81409

00000 +++++ +++++ +++++

12177/10671/8024 kHz, 13-11, 1015/1025/1035 UTC

68693 95203 86627 59919 41237 17165 43731 37297 64295 97582
92826 24745 46040 02186 61949 34381 81809 56378 96646 61593
61797 52410 39586 01828 48754 06645 60654 19820 17899 27868
42226 94708 76222 82560 49302 89459 03382 68088 39194 18050
81345 29737 90450 08842 05021 82528 55705 87580 91000 23772
68144 28464 26662 47255 56265 46717 26773 95054 46635 31103
89808 07868 59314 39814 71166 59820 25653 08184 15457 88686
83128 41649 15068 57455 26931 92399 87183 08179 22967 43168
86452 94049 11980 46575 95479 00636 59471 93480 60348 92205
31110 82091 00000

33796 66237 19747 16977 42395 45028 57034 41868 67994 23185
20782 36258 72414 78632 19728 14427 54960 22417 56734 03839
93744 24090 49455 17254 50008 52034 25719 98378 40108 52169
10801 26984 04872 13471 48781 94439 31002 93750 25168 85590
04223 04118 82983 27921 98844 75574 49487 93941 33450 56182
15741 67733 47373 12225 36180 11599 77676 31814 40407 93732
41293 54378 74366 62880 52039 74463 13111 80896 27176 93291
12329 49158 63208 83073 00000 +++++ +++++

12177/10671/8024 kHz, 14-11, 1015/1025/1035 UTC

00000 +++++ +++++

12177/10671/8024 kHz, 17-11, 1015/1025/1035 UTC

08322 34904 10910 25194 86764 64721 26828 32981 36897 22446
06141 59856 07101 73988 73398 78541 85859 61152 09567 28613
19768 35441 39819 49191 45703 62669 75323 81639 73098 78053
07477 34477 77240 96489 78013 27685 89554 07684 73436 58593
95782 10844 17195 56536 78027 68599 58060 18470 61567 84854
78125 42727 52398 36251 68875 03110 76439 11932 48756 30498
56335 41296 20691 94171 86784 14423 92970 00013 94356 24870
11964 47808 92702 89510 80078 14810 69128 25115 57417 57752
63440 86359 70557 50523 25023 94945 76906 99652 59071 14519
58047 04836 97923 51079 40538 56655 58426 83565 67586 88696
71276 54305 70036 26249 93269 74009 10113 98775 38398 21012
96359 08341 88732 39433 93198 71178 71029 65955 73567 74599
09993 39899 88045 16408 94139 76287 48939 19038 15199 06591
52727 35572 66981 16827 89339 89849 14659 37717 11680 17846
70395 66581 63839 02497 36261 25656 91446 19184 00366 86525
82575 34041 97159 15356 12667 22282 67823 18619 91876 98736
81701 93983 38322 77783 04702 16084 25624 04859 25608 11823
78224 26744 76240 04927 12872 92796 06402 34419 49761 04342
99542 76710 41714 54382 40091 25985 94885 24838 68376 12582
79399 33484 84092 64043 53362 47790 84229 38539 48702 07837
46417 85327 92252 25507 93617 11962 60536 52128 01099 62927
91665 31765 31635 39380 02824 82339 09869 14694 86741 71770
71762 25498 85614 81325 50094 42880 65902 73362 81919 53468
42446 05655 48950 05045 25336 59483 86770 96417 87970 73692
23852 16199 79745 01883 36278 60215 31812 34940 29137 82202
29336 56082 80509 57501 48693 20617 08992 64418 83059 77585
50690 12958 04796 75498 56631 75602 38106 19336 46509 99831
40378 71003 79730 07062 15649 10434 29671 07709 08647 99526
72103 87044 52831 16094 23707 41540 70871 50027 91631 70392
51012 78853 20021 51908 47748 64865 44448 59439 80258 41038
90202 96558 27024 77885 75360 56159 40086 48471 04576 33169
27359 33752 64534 45563 76453 35434 57005 43372 18443 88539
30425 10351 55002 90875 95954 88031 97367 91566 38952 76805
90549 05877 61785 93763 21237 48477 18934 91944 32831 02359
30314 70712 96040 65583 83763 31918 08493 43045 62620 61569
21769 75448 59342 41656 19334 22673 61095 21853 93776 43723

18255 05767 96798 40450 31751 31425 60405 57228 20204 50687
12717 53774 52774 37270 36849 93298 58684 78079 46298 13184
49328 27517 75268 70360 13919 29480 07375 78578 74611 36709
91163 79770 12033 82197 15890 16671 97159 82332 45983 98904
90485 76463 37644 79706 94403 32587 86001 85490 69753 73828
76285 65418 52468 05411 37428 53194 31252 84417 00000 +++++

12177/10671/8024 kHz, 18-11, 1015/1025/1035 UTC

70781 48372 02623 48147 86115 47630 38314 55940 33377 33545
56431 91879 53024 97436 33765 15869 99327 59469 90153 97193
44179 81413 21045 21082 28641 18178 23910 64508 60702 00300
79435 45915 82648 64576 73438 78552 56509 75030 70449 82118
41000 01401 74887 32386 58418 47325 40765 53504 74903 45434
15879 82671 42525 61518 31400 61845 76618 74964 72812 36202
66814 27653 93144 64021 45196 58495 54414 67672 60027 65808
08240 80419 28475 64705 51547 68700 66782 31693 18310 34585
21319 53665 93264 28103 48941 23476 58536 24115 20115 49290
09112 43421 43224 85093 00000

18529 83735 02347 10275 09174 49397 51342 51168 55613 03458
91017 96717 20684 22769 93996 26816 62724 68338 86862 57168
49192 97154 28081 22654 42254 33895 85237 57278 67284 57164
85037 37893 00215 79990 34484 83870 34663 29233 36698 29928
14792 53609 49794 14277 44823 15024 62271 49299 11151 42879
83331 66923 77987 56072 71589 55903 42488 82344 50593 33170
60281 29689 84596 16458 77342 89492 13031 90389 29164 76103
67093 83204 93139 32520 16916 96311 05111 56866 22727 53876
76009 86081 00000 +++++ +++++ +++++

12177/10671/8024 kHz, 19-11, 1015/1025/1035 UTC

72716 19163 99927 40395 20795 12349 39113 48975 58910 38670
47774 69270 03828 72938 29935 46175 78918 01521 39959 39185
95014 20353 41387 60305 58705 70161 51798 42138 31507 26086
59652 65828 88355 83875 24041 03561 48850 09857 93280 55302
79687 46867 03302 84458 91725 93317 41747 82155 80118 97602
88742 14814 80944 35017 70255 34713 42788 59391 84998 58234
36690 46611 90792 41464 52922 72224 61358 07850 58008 90320
49434 07590 10447 05860 17198 13459 58550 57649 19898 82735
68862 54156 53654 39934 58567 29336 03350 60032 30354 10665
51560 56862 33148 16574 34457 06376 97163 25459 55619 59449
16714 83464 93693 23942 79204 43222 64840 20665 63763 50733
25898 42969 57930 22586 29214 74640 65858 80688 65070 45772
06449 36714 52643 31321 24871 43433 65435 22024 65893 55137
02123 22363 82474 64324 38742 55275 78038 06843 23170 78279
05886 52685 97819 40726 74165 24607 61502 36840 29856 11768
06383 34254 20182 70582 90970 82721 54914 29960 35085 32685
17987 43133 47732 18404 01861 53249 23825 85315 63089 64923
70690 66320 22505 38933 50301 36688 58475 52249 48164 02254
66662 90579 04814 00614 84724 65627 70825 19986 05395 74238
71322 65446 26379 41631 90873 27199 10503 15902 14751 30605
54557 05976 87467 72617 90266 80215 74539 74347 65825 67853
38406 04414 81440 30441 64451 52796 77310 95518 98056 59852
97491 69663 78627 30206 78070 73129 81533 86186 33098 63255
03890 40495 36710 38827 55130 92813 24883 42586 38297 80011
65248 04073 32997 34666 68416 89983 15950 31561 39237 54238
80072 26866 91446 04945 38043 19679 74123 30438 21263 90618
83401 51597 10175 97153 57874 92613 56868 30362 81127 87408
85897 62799 39837 63875 84268 42168 10878 73149 16521 10481
75861 56081 25847 53390 86563 64102 07175 09389 29662 76678
63174 93557 64234 82525 79102 15556 30440 16788 77436 96529
21440 86747 20538 14464 86747 20538 96113 33890 81177 29194
49944 95939 56606 35653 45912 79597 21209 26471 20188 57672
73873 45287 11943 05883 67479 02953 82729 43495 30860 81112

03150 10398 72900 46431 92732 10280 17198 17654 23990 74614
40728 52684 26556 27135 14955 47873 52367 53473 72811 66694
87814 05681 50007 40010 23807 96280 74080 05103 19678 61572
99649 75662 21886 98856 13288 59923 23428 07273 56468 69125
74916 86936 40006 83502 83260 76073 48454 67975 58871 30817
57864 54733 97346 77375 15375 34909 06566 91253 54044 26512
15130 83204 41386 10827 23088 96611 85019 54451 80885 45988
43902 59169 07475 87403 00000 +++++ +++++ +++++

12177/10671/8024 kHz, 20-11, 1015/1025/1035 UTC

72514 68996 39440 45235 34098 62931 80122 08256 70190 63088
53095 02720 33763 53533 49762 15988 88359 60651 20387 66058
32334 93082 67520 37441 22013 76287 12575 82772 23473 30173
77722 01072 47616 63231 50319 28613 48237 81613 22037 03314
87762 36586 19883 88613 00353 58801 71313 67751 07064 52821
70599 44396 62733 50336 38669 10558 39305 45510 93579 67726
75259 60889 73825 12168 45843 17323 81672 20317 33797 06318
38689 95209 05249 88272 70679 59881 20475 65035 64194 08684
34211 00204 61813 52442 65205 88085 00000

03864 35292 57701 40625 57423 16206 28524 29425 91954 26950
99946 11284 06100 27713 82750 64287 86272 05418 60842 29440
19784 83116 56976 32988 75255 65808 80599 19407 36257 52373
06262 37201 99103 68304 56032 44739 70748 98928 84356 28288
27711 27806 88793 49441 21986 09989 95064 64134 44846 34832
89866 80425 84508 58044 99861 47237 38578 07664 40310 91232
67214 93643 81762 44040 97960 75745 08252 26982 18168 69415
65438 85519 15959 94336 22124 89075 00000 +++++

12177/10671/8024 kHz, 21-11, 1015/1025/1035 UTC

00000 +++++ +++++

12177/10671/8024 kHz, 24-11, 1015/1025/1035 UTC

67249 45474 06243 53354 05465 74898 21953 59136 91929 01922
65251 89866 83485 82707 51691 72024 31051 39499 05746 69243
34229 52409 13503 14590 46401 03655 37584 53859 35000 97666
11448 85856 26649 05517 55274 10586 91842 07101 80626 21280
48876 29510 76059 01225 91691 05033 90884 11301 71344 97223
59254 79185 85768 68475 31777 26153 57525 87529 06830 92412
04234 00374 78776 46915 31366 12947 45252 92570 02083 59102
40737 02817 63820 52261 88566 50468 36293 44199 88603 14792
90616 39391 82731 77741 74225 38367 65373 45286 61283 08506
31210 54783 33270 05709 77305 54310 19425 95390 01800 64921
51748 46222 66383 61741 14240 95066 14722 34849 91057 06544
64026 15883 43297 75657 11958 81305 69069 46936 26048 68266
26562 48504 07832 64003 24783 64537 48869 54708 11664 94534
20851 44812 14218 72844 66978 82611 10426 46879 86789 53183
37564 37463 31642 24522 66632 29741 53022 57833 97584 68096
70868 17933 55056 53509 54114 44672 89257 66788 30613 71341
11733 66127 68654 00983 20678 32412 97244 76549 95480 60713
57344 05851 65205 21419 01254 27221 80675 39422 82329 26845
44865 64824 02215 43687 81276 33567 07789 22948 44992 41453
54996 04000 06095 79982 81770 53731 60131 07434 57220 81236
45321 53647 99274 94790 71186 81932 77976 87053 88297 56544
46596 59422 53819 89156 67781 21494 72543 62786 26901 26554
18098 56588 49789 29041 64022 19974 67069 74922 79391 69478
92252 60919 68673 06820 05782 23508 60523 81591 62235 43656
75179 47013 62850 78208 25168 82196 60571 53880 28992 79338
89806 84773 42498 19308 38075 99379 37605 84037 01739 87980
83084 79178 93004 06406 07080 65435 90378 97067 46045 22042
49772 13227 09813 90797 18434 57411 17442 74105 18904 69934
83568 85457 95175 28455 59928 75791 38250 44498 61742 84174
33275 67894 33651 86228 95450 35066 34891 38757 86890 22099

48396 43995 31639 88527 43506 81927 71000 22798 46988 84111
26409 25310 02033 47440 61990 90007 19937 11282 64023 70437
54146 46446 79488 41212 51341 29387 80875 90834 59275 00115
49456 06792 96028 27224 94199 38882 10377 28497 48516 51701
87962 20502 12030 02220 82955 95644 29544 03404 79885 50083
24416 59803 15341 10977 28502 86048 14219 36473 75880 44205
20210 86896 52526 60899 25211 90563 19132 10176 27357 52660
49260 73014 72337 80628 50021 09442 57723 24493 57445 04178
04947 55561 23761 71762 28666 31953 38750 32079 58161 24368
52376 92237 90483 00557 90863 95738 80022 91912 83424 24859
94188 90637 41824 67195 89894 50905 59952 82314 90530 92468
25612 90411 00000 +++++

12177/10671/8024 kHz, 25-11, 1015/1025/1035 UTC

32890 57074 32806 86791 64835 77977 95045 45901 96330 97122
08790 53060 65998 23328 71619 38622 12887 63229 48721 63555
92010 17760 49030 68901 65389 56069 88579 61266 73252 90319
58242 20285 15116 99805 38058 38995 95405 77820 25324 33061
13317 99715 68648 79781 01606 35590 25148 72818 43988 56048
82974 03588 25841 04458 16362 05249 97893 34151 65382 20225
57595 34002 57594 77202 77840 90829 13774 88533 37753 62038
04915 03993 35201 56969 52689 81813 85742 50363 90547 62952
37686 76401 27651 59505 57940 76744 82830 93232 68370 01019
80743 45113 37312 83168 27429 01868 55963 42144 07450 10396
54316 80325 69793 91103 00000

73592 45527 06984 53382 56966 37837 06971 51656 70780 72932
81615 65933 73521 73789 73511 22739 40568 06041 29544 25126
05318 02381 16677 00370 41437 92540 65576 86832 40905 12268
09250 95917 67546 89744 08897 10060 90742 32886 84150 02694
29003 65958 89902 91123 58091 88942 06898 58252 63384 58098
38286 04082 41164 11153 29319 12949 78515 85556 52376 47411
66527 03240 24515 04739 26487 20318 49722 96937 53743 65169
03066 40240 08935 13331 98926 65017 11274 72649 10496 82030
13560 77121 32735 65967 63627 12866 05981 42207 81900 24660
42373 87741 09755 76479 22314 92095 00000 +++++ +++++ +++++

12177/10671/8024 kHz, 26-11, 1015/1025/1035 UTC

96664 56364 58874 02931 62998 98510 58213 23817 94146 16639
04837 57048 61944 69219 62549 53947 59512 79347 09309 91681
84573 70092 07703 94397 88889 30409 28259 18518 48490 85051
92774 38132 34396 66932 29848 91433 88517 15358 59815 74113
34410 48581 51257 90680 77593 84106 16287 99614 75093 05190
36782 13316 78923 96964 38774 38769 83167 00634 57161 69875
29374 59168 57943 67374 49932 52944 10168 87308 54124 48761
24759 43952 86544 10675 02444 18159 12564 46087 57936 47048
10539 85522 12584 55988 75440 19536 72658 18789 63601 41190
35474 57063 33259 67531 90535 14685 60593 38508 07878 68279
35931 16773 30816 59688 69823 36796 15267 61343 63669 76732
82846 10493 24574 51485 79915 73203 29142 50393 59783 24094
65872 67984 30229 52726 10866 01241 33554 32591 16513 11795
51334 13630 17860 76510 51069 24238 86335 74880 16913 93661
85536 86673 31679 30757 08742 98280 02290 20027 02857 41182
45889 20884 08475 10985 78766 81071 70727 40462 75319 00181
00640 25040 89207 04208 91646 24154 53915 17083 20979 86927
04880 40100 90603 75605 90407 75210 87392 85174 63533 53087
67228 82614 72026 51919 92713 14221 88739 17866 79189 54420
49459 23106 28733 94538 90479 22423 56840 94944 03062 94263
41468 49001 46976 77209 49123 32286 90319 37787 17694 35493
67782 30574 00710 04464 74562 36523 02709 35787 38115 90442
60407 01404 34918 33582 49362 00651 44444 52246 20802 63185
57530 88387 98327 51224 81325 33102 89158 34535 08015 38982
89623 36628 39489 12243 89569 75564 85172 70582 05391 47838

75172 77695 96353 28763 55951 90385 43914 87796 60709 79213
98704 42245 71654 08620 24894 97783 16364 87454 96586 49234
65403 25854 25971 40031 23416 59408 27887 03814 30847 26546
50503 36593 18502 10081 26811 72913 82126 78855 26584 64460
69193 90421 13534 84550 95080 40692 37317 06930 30836 71503
15096 32329 29710 72022 82340 61217 84639 34949 17553 36174
33889 53425 70603 02333 57008 69618 49373 59329 28324 10895
44382 03189 20128 74530 96087 81595 72765 46896 34559 10974
73804 68048 46188 28826 13471 77672 47147 79765 08548 03306
68272 58667 11912 76793 81057 59400 49907 89888 19449 02550
54736 24966 77128 40591 84058 21762 84978 63933 44982 66087
98396 56291 64641 11454 49177 72796 74536 69547 41619 39314
00841 30483 97563 96378 77842 98786 80049 36201 26727 56036
50258 06177 66869 86097 37460 77337 51842 23901 26628 01181
47313 13683 93415 03318 93030 87644 41189 87370 16067 00957
19796 47567 87531 84045 30756 13457 39923 98103 48571 75204
87310 04767 12833 62873 15541 93415 00000 +++++ +++++ +++++

12177/10671/8024 kHz, 27-11, 1015/1025/1035 UTC

78860 10231 58676 59491 84553 80051 59774 51025 02810 26133
23445 32083 03560 16844 60161 73174 05043 46883 35874 41323
03789 80900 58865 78119 83591 92138 41709 53245 01930 88280
99264 98192 77266 41695 68636 49831 25663 66256 62052 94039
00000

76759 50634 22360 21879 94563 11575 80320 46221 30287 66790
72098 47198 63471 63571 57078 11353 49955 71713 12235 38573
39252 64145 04050 45430 09991 87900 12095 26817 96866 92597
40199 55576 07526 08634 76167 24804 52836 92272 85959 62516
38967 79811 53284 73368 94731 18021 00542 87106 32611 63037
52048 18453 66918 64907 25486 68101 37514 79954 62513 19509
12546 78174 34468 11184 68606 37833 84113 89142 71791 44455
89351 69233 08061 36404 59846 64012 36354 64226 02498 53852
62909 55949 16698 06982 60193 05530 05313 78137 78911 26632
12324 40513 26521 38925 23062 30704 10672 79086 87982 11319
71047 53704 55913 80961 48004 76253 27709 86258 61473 55351
66252 15633 98551 26463 23748 79489 33225 44255 72230 06531
26652 77776 48235 10862 81455 75667 47570 09583 48457 93566
31122 95131 00000 +++++ +++++ +++++

12177/10671/8024 kHz, 28-11, 1015/1025/1035 UTC

00000 +++++ +++++

F02 – Russian domestic net

Mode: MFSK-4/150Bd/4000Hz

14848 kHz, 13-11, 1423 UTC
18257 kHz, 13-11, 1434 UTC
14848 kHz, 13-11, 1435 UTC
11160 kHz, 13-11, 1437 UTC
11160 kHz, 13-11, 1444 UTC
18257 kHz, 13-11, 1450 UTC
14823 kHz, 13-11, 1452 UTC
14823 kHz, 13-11, 1459 UTC
14983 kHz, 18-11, 0746 UTC. Test
14983 kHz, 18-11, 0800 UTC
13391 kHz, 19-11, 1036 UTC
13391 kHz, 19-11, 1041 UTC
13391 kHz, 19-11, 1050 UTC

12208/10191/8014 kHz, 03-11/04-11, 0800/0810/0820 UTC

11100 00000 25147 01015 02139
89134 02324 82845 16569 55177 56415 17091 57211 50095 72754
26555 48543 35645 99619 64089 99161 90114 29443 43093 51452
61778 15688 31848 70985 33983 90698 92629 63495 69349 14756
77067 83841 88596 29916 80276 05325 44329 23957 05721 26337
68494 63276 37296 28968 31234 93236 95152 28583 76589 73914
08850 49012 89124 20254 35440 36458 88688 25344 85119 60998
14442 31108 18713 90042 89838 15382 13749 08580 86999 43791
78334 13593 83655 96407 07463 39377 37501 57017 80232 92127
60419 06149 08607 83848 49596 87090 26471 71233 71112 23240
53391 63547 75286 86109 87063 12518 33230 01243 90843 16523
14659 32388 28480 91804 09357 15500 34011 41809 51232 22716
71080 22946 41365 64443 84165 57694 24852 03834 07888 26383
58801 19102 29350 81043 22357 52477 61766 07293 36977 39012
90819 62709 38225 70065 60534 67856 54770 07709 11097 43028
86049 95153 13537 33641 54629 61617 92096 16519 20582 52222
35324 10145 58493 45575 48847 87370 19041 79228 40002 33232
43416 32555 06737 47782 93886 98410 60102 97293 08344 34436
02134 25569 13829 49924 70114 78118 21215 20337 24745 66477
26586 38102 02000 51071 30283 91194 72134 16452 74518 53687
36247 39980 39104 17741 33444 85347 99449 63746 77562 57180
46304 61728 32323 39942 42425 54506 35564 96661 09817 28921
21270 15211 00000

12208/10191/8014 kHz, 10-11/11-11, 0800/0810/0820 UTC

11100 00000 59234 07016 01839
87968 11977 17999 81842 13896 84159 39578 32796 82675 91759
64362 31957 61226 30981 56363 89309 24064 72316 32669 88402
54532 35490 81911 97476 94188 05125 86359 98650 82521 98069
02308 08626 54184 18328 78452 89323 85936 60513 16950 71896
10482 47789 06825 42570 39387 15206 84446 63726 62268 74397
00728 28681 14438 20555 99763 73597 30194 67625 38568 94953
23943 22670 02626 46026 66338 35325 96923 10810 47632 83290
17161 78809 45418 79793 30823 69164 38951 13967 22804 77510
37248 60068 85268 44043 13139 16490 56440 66206 60455 60488
38004 04447 16570 29573 45805 54477 17435 65495 73543 84472
77341 81775 74135 60651 10566 40690 88445 09675 37103 50688
76064 91293 39667 20136 27831 79690 64147 28362 64771 76950
80713 99914 53161 07100 47746 92984 90380 64142 45793 37928
41261 12546 73732 86815 29609 63601 24321 59960 14591 76102
81340 00359 06666 54771 05498 71971 02769 44889 01291 62798
45399 46542 82019 78663 35347 96941 75123 38676 52696 94246
35043 08276 65835 61326 55787 30820 33130 72902 00394 43645
26971 94507 89474 89527 34860 06701 16027 59508 17246 12966
78705 16181 00000

12208/10191/8014 kHz, 17-11/18-11, 0800/0810/0820 UTC

11100 00000 65378 14017 00599
53787 58212 54538 14619 69504 52515 16237 32139 92770 99789
70540 09206 85443 97794 23491 37334 86614 24565 53240 22104
73286 85608 64733 50322 64915 80320 40579 38134 32725 92343
11552 77278 99754 33522 95161 21687 42558 96175 75724 81585
30507 93343 24375 17315 63623 91718 82462 50043 94890 66936
56754 31560 47973 35919 99902 40336 66277 17057 00000

11100 00000 48057 14018 01479
47847 85011 52412 80348 14867 87449 04329 53704 26194 45252

91266 38476 02694 02171 04127 24876 49009 24373 63469 39323
90279 77757 74837 64774 92538 23723 76352 22485 90251 50584
64543 44871 69412 82817 09326 94188 79646 35327 94087 06687
73759 04922 41804 66944 98154 16177 13129 42066 82578 63890
87390 30437 02610 19297 62444 04702 13350 92247 34301 53682
77732 66533 42485 52904 37907 50530 92048 18421 03124 10382
88182 23631 52554 77868 44368 83766 76504 50191 49998 37753
04429 23822 08404 82107 93210 29632 81235 36586 74124 61470
00130 46252 81932 15399 31589 49657 14552 81743 06036 67827
96710 57178 46951 93731 46062 69010 61056 86930 65171 28858
75465 03087 07812 57916 32746 13024 93027 50986 79832 91031
65377 71465 11717 77084 24814 94481 55867 42686 74625 40359
08309 15004 60883 65599 57296 39000 01831 03581 55527 82233
30647 72137 26821 12028 00038 18145 00000

12208/10191/8014 kHz, 24-11/25-11, 0800/0810/0820 UTC

11100 00000 36952 21019 00799
28104 17989 53017 48204 09439 92542 69770 74833 71653 22678
84421 11218 85532 33392 52301 60745 76680 71042 71874 24114
65457 96774 20623 22493 01540 53093 56649 49304 41555 45764
96943 05293 43213 08238 08246 96596 74385 40780 71444 00486
60556 41492 05447 28466 19097 71422 61462 41436 53787 20938
23626 96578 08038 69558 76918 30679 00230 56436 28298 09562
89629 03659 91998 98318 46304 59586 74925 32034 23480 54380
23081 91678 55773 84939 14972 14873 31752 19077 00000

5913/7992/10687 kHz, 27-11, 0830/0840/0850 UTC. Interruptions in signal and modulation

11100 00000 13467 27025 02529
84978 59741 05341 35942 45359 16408 26070 44452 01578 12638
16789 15319 89445 55485 27776 50008 41657 10260 69741 97854
58761 24110 75470 83004 37642 37195 99445 21308 49712 42398
60154 50585 86001 79504 54753 22711 11323 74803 00788 30949
94711 62022 84643 70984 08321 45555 21437 59083 11962 91913
55999 55810 65475 60332 59679 68763 36121 08479 02625 32742
93180 34194 06244 90793 06946 39208 05526 24580 94294 25762
75916 07496 78038 62085 04430 78980 52222 77648 09685 63454
70566 74145 40558 82327 00252 63134 08136 32507 08212 66274
30653 29850 72142 39100 96107 40990 33395 04268 72246 51987
33960 05209 18585 47226 04723 16136 80187 97007 97161 69330
67849 77269 75709 85654 54414 69874 12931 19223 41875 16898
54732 52172 78977 27364 47767 00465 33983 59852 46245 16666
52313 29432 40317 00632 53731 12334 73236 54044 48768 46832
39466 39729 79071 53740 80943 31702 11371 24982 23668 66867
39742 53662 21812 34324 75857 04081 01536 63196 31917 45124
21705 94943 25940 95475 93675 51081 64107 54077 27367 32243
79839 14282 95773 09536 34307 85138 35134 94110 08049 68243
22929 95899 38393 63588 00894 07445 82364 02860 35244 73767
09771 33609 31295 34207 56152 02744 44658 47170 90276 12775
56213 33729 75878 49245 03034 01005 32323 02801 82457 31269
23879 34315 71491 47713 32299 56528 28733 92810 92382 30622
70997 80212 95217 01173 41849 06122 88785 17923 14200 31073
30615 17810 94187 68059 72176 65677 18511 37950 79698 77123
62404 78123 21104 71914 00448 15265 73742 31395 87397 12345
25250 00000

Link 10053

14475/13521/10196 kHz, 02-11, 1530/1540/1550 UTC

11166 10053 74523 02001 00049 00000 00000 00000 00000

14475/13521/10196 kHz, 09-11, 1530/1540/1550 UTC

11166 10053 97531 09001 00049 00000 00000 00000 00000

14475/13521/10196 kHz, 16-11, 1530/1540/1550 UTC
11166 10053 95184 16001 00049 00000 00000 000000 00000

14475/13521/10196 kHz, 23-11/24-11, 1530/1540/1550 UTC
11166 10053 78531 23074 01669
48942 93859 35577 54585 28766 41535 87362 28521 55482 70014
47233 32671 87408 16767 03053 34386 27433 59160 76756 11519
68909 72529 97592 02899 46656 85468 07328 09929 60492 52985
54267 28101 92150 76309 99957 58330 91112 20265 52158 70051
60552 67092 29334 18493 03810 07442 91330 89815 68278 30779
21172 58523 28377 62015 24846 11363 86301 46082 51885 39336
40071 57021 53484 05578 78989 30765 98079 06418 58216 42507
49268 26581 74517 30379 56149 11944 97946 67111 48467 55596
65635 54776 53734 12832 97496 40321 25522 71857 68370 72099
22032 73812 53970 93617 65363 05141 68532 52287 84695 73564
99150 85958 93961 85200 56005 50644 07216 97707 96558 77505
45552 94694 92825 89209 67987 79520 07474 90052 87125 86070
74466 45222 87908 28105 99330 95795 83183 01993 26707 21725
96541 15166 78041 09733 13514 42829 72161 05489 66533 87713
96043 53469 39088 86708 22935 96863 51269 34413 77591 07596
21423 28706 21047 10759 00005 93770 38446 83273 07226 38662
43582 12398 08603 71546 74164 00000

14475/13521/10196 kHz, 30-11, 1530/1540/1550 UTC
11166 10053 13579 30001 00049 00000 00000 00000 00000

13469/11643/9486 kHz, 04-11, 1650/1700/1710 UTC
11166 10053 25813 04078 00049 00000 00000 00000 00000

13469/11643/9486 kHz, 11-11, 1650/1700/1710 UTC
11166 10053 13579 11001 00049 00000 00000 00000 00000

13469/11643/9486 kHz, 18-11, 1650/1700/1710 UTC
11166 10053 25813 18001 00049 00000 00000 00000 00000

13469/11643/9486 kHz, 25-11/26-11, 1650/1700/1710 UTC
83756 04507 48433 47395 38947 72987 26531 22879 12869 32920
29370 72504 92112 86580 68793 68543 81697 86567 98324 28976
77377 34727 06939 68178 32695 33132 19621 94772 31149 48021
38784 08306 41336 36259 02780 05713 81196 86977 44511 27752
16018 98118 22091 92811 21225 93366 90403 94739 38159 13297
98283 05179 49456 70146 30882 04727 26508 68070 52891 80944
12916 44065 72795 98810 61637 72844 93166 36500 10192 68459
17397 01002 66015 81306 70064 21769 88120 06681 95155 56964
47912 84618 98617 06713 50444 00068 33346 78884 15496 57665
14327 00222 05326 53543 34678 88415 49657 66514 32700 22205
32653 54375 58424 88173 38366 26835 58417 72964 77058 08899
13252 10053 92964 28783 84823 70936 60680 11187 21709 16130
35438 08790 75548 47159 74693 66208 54530 56384 37205 05457
10104 49901 42455 47651 10944 02019 24063 09113 35687 15418
07371 74312 79321 70268 05804 93422 40200 64120 48391 12115
57758 08284 53723 84090 33882 62395 41512 37260 64976 92669
12053 06206 08571 95693 01451 76907 90238 12442 52902 96442
28113 48974 89283 52378 16600 00000

Link 60070

10523/8131/7765 kHz, 04-11, 0030/0040/0050 UTC
11166 60070 94621 04001 00049 00000 00000 00000 00000

10523/8131/7765 kHz, 11-11, 0030/0040/0050 UTC
11166 60070 32147 11001 00049 00000 00000 00000 00000

10523/8131/7765 kHz, 18-11, 0030/0040/0050 UTC
11166 60070 13579 18001 00049 00000 00000 00000 00000

10523/8131/7765 kHz, 25-11, 0030/0040/0050 UTC
11166 60070 25813 25001 00049 00000 00000 00000 00000

Link 70059

8174/7316/5929 kHz, 03-11, 0500/0510/0520 UTC
11166 70059 74523 03001 00049 00000 00000 00000 00000

8174/7316/5929 kHz, 17-11, 0500/0510/0520 UTC
11166 70059 95184 17001 00049 00000 00000 00000 00000

Link 70202

12177/10156/8138 kHz, 03-11, 0700/0715/0730 UTC File 44481 (binary contents)
10231/8082/6869 kHz, 03-11, 1200/1215/1230 UTC File 44481 (binary contents)

12177/10156/8138 kHz, 04-11, 0700/0710/0720 UTC
10231/8082/6869 kHz, 04-11, 1200/1210/1220 UTC
11166 70202 34682 01082 01059
31427 80936 40272 76280 79965 76466 73818 81986 90833 04908
98532 78156 34968 43477 88167 46912 64750 37938 65863 50505
99228 97473 22227 40492 63735 61521 93286 66223 26091 49521
52986 56085 96567 29520 99924 69939 83822 66546 43016 46185
23963 36722 15770 91887 24953 18023 73861 89415 93532 93643
55706 18017 36853 28898 10692 13772 55994 07585 24788 16366
73576 38774 98198 76113 62633 69932 54758 19675 68944 67338
87745 97903 44013 49718 71823 64255 30878 86041 95765 57205
69937 93418 95679 85105 16990 96026 93408 36920 90660 31015
69783 67279 91416 12313 27442 29283 59347 88294 22874 53503
62904 54220 72398 82103 00000

11166 70202 95174 01083 02099
84687 53931 15717 65998 66671 53894 21927 09774 52992 41749
37657 46782 10196 90424 03605 35763 83222 55851 30551 61249
22943 08375 25178 06442 69257 42003 05059 71875 63198 28671
38737 19582 86476 09719 71845 47420 51903 41754 25192 23278
93128 39104 75762 33820 27140 80035 56568 27472 87944 68932
36278 56339 54881 71614 64570 46726 24007 65990 94152 52968
95976 75234 15376 74245 78870 75658 64375 39072 29398 96495
90698 87153 80921 53747 95335 03289 31730 85316 75091 83013
92004 79585 34260 34675 12915 14645 49499 47605 46281 50353
98887 81110 08241 40415 91063 53941 45352 56669 55403 38940
26585 42765 79178 92549 09622 39429 02613 73877 54911 48492
07795 32991 85919 27886 62374 73149 19004 34768 03977 16635
11360 58993 76282 28897 00466 14095 52702 80679 33468 77982
08590 52822 09957 00522 27922 13430 86540 20207 55394 22089
16691 57100 29861 40820 24265 74222 60063 56467 34171 24600
28576 44184 08588 26127 34918 26736 62190 31467 13758 09281
54828 85142 89157 94329 85066 85034 50786 06569 33053 90454
63044 82235 26137 43987 43036 02728 25683 99295 68330 77144
58502 72066 00434 03434 41368 56284 34938 62847 72017 73035
14255 27380 85103 44007 63889 84884 96530 06890 38187 11553
84594 14857 86486 46445 81383 87316 75628 83207 00000

12177/10156/8138 kHz, 05-11, 0700/0715/0730 UTC File 44485 (binary contents)
10231/8082/6869 kHz, 05-11, 1200/1215/1230 UTC File 44485 (binary contents)

12177/10156/8138 kHz, 06-11, 0700/0710/0720 UTC

10231/8082/6869 kHz, 06-11, 1200/1210/1220 UTC

11166 70202 26935 05085 02499
53782 49330 39908 10725 48127 45115 71840 98995 50398 50413
14836 30378 58767 96689 04220 46510 81486 00576 74980 56490
09834 22335 22849 86022 82556 81849 52976 64542 40259 24314
77139 55017 93174 52817 45430 56119 50745 70012 23343 31438
86459 96059 50223 45437 36386 55017 39985 10837 54823 46879
10069 77109 75533 47455 49542 14773 51963 03253 62313 75178
74916 13582 46369 30463 91102 17046 94993 23382 71002 24614
30886 81675 99486 66471 09141 76683 87623 44815 50000 30882
29121 09804 87336 04038 49834 00834 43791 12656 23768 20338
68514 62421 54034 32289 98436 98316 42182 02600 29016 02101
94337 23604 05394 91835 37610 89808 69897 03160 45181 17097
26831 56977 93527 22587 10484 43270 00203 07311 67304 75702
15634 08922 88168 96717 67349 16603 51687 37813 80092 65375
64477 64673 20249 51981 09354 61855 38025 39546 37364 36717
05826 43189 64605 47263 76252 13782 59770 83612 08172 62040
33349 57759 34287 90134 64429 81328 68655 23007 26032 36002
77575 56580 94920 66314 62298 65055 56817 49488 26990 34471
42972 22023 30385 14729 59014 67695 44570 07253 92020 96682
69333 30489 06759 70483 75517 30421 67010 52323 75813 28296
42943 87743 46435 22737 90449 45047 48111 88447 13396 70296
19823 38682 44719 36554 43747 43667 07311 92039 04815 22177
40621 36913 93343 48435 03926 83345 24175 41535 92187 78588
70743 29575 25455 95711 37539 05677 97733 21710 19374 18095
96265 97657 20908 61591 27162 90601 34866 62268 08312 01877
02385 73045 15520 41546 03922 21970 92807 85247 00000

11166 70202 90124 05086 01039
66258 22228 22836 71782 81628 59270 28829 04763 57206 68563
22438 59227 15046 52441 50671 21854 21720 84658 61765 06169
81548 45293 23467 62694 81103 12000 23050 97789 77162 68549
53757 24625 45315 16590 17362 94715 31394 01570 97523 83463
72928 88754 83635 28138 82810 50283 49844 41740 12342 49196
18939 51177 35880 31369 65786 33195 24240 61301 40002 46500
99057 62682 12557 83514 85303 49689 75986 90189 04119 59935
52904 27330 73175 25024 92509 71857 06746 39630 59760 81453
32663 15064 46919 71015 68365 28234 62142 74374 23208 01968
74815 89692 19233 77610 22304 32001 47588 65850 07828 41298
02770 86101 00000

12177/10156/8138 kHz, 07-11, 0700/0710/0720 UTC

11166 70202 26598 07056 00049 00000 00000 00000 00000

12177/10156/8138 kHz, 103-11, 0700/0715/0730 UTC File 44487 (binary contents)

10231/8082/6869 kHz, 10-11, 1200/1215/1230 UTC File 44487 (binary contents)

12177/10156/8138 kHz, 11-11, 0700/0710/0720 UTC

10231/8082/6869 kHz, 11-11, 1200/1210/1220 UTC

11166 70202 36250 10088 01779
26252 29965 51412 94377 19406 78378 81606 60485 98185 76302
05294 19086 41129 86313 59845 54468 31853 12411 69825 87285
37760 87292 52116 43911 75562 93709 91445 77846 37054 87093
22268 22862 73578 11637 77926 82563 62624 27023 93041 86081
04987 87982 70055 64548 25932 43875 45877 28072 78807 50475
19562 47881 74527 11148 26965 73341 85370 89618 73300 38510
96543 61498 59553 37937 03924 96776 63675 76395 81437 90454
62502 22212 66505 83510 05328 18913 36985 41382 75086 34849
78061 82162 98058 55500 62517 71686 88054 48139 92811 27695
36011 53553 78419 00280 80928 84497 46864 20773 23100 35578
11869 36291 65560 34244 47087 72103 94692 87587 38827 89025
35939 04624 16224 28018 45537 98750 82285 59176 24241 00077

94259 77311 63941 32290 66752 11287 63139 33770 96039 39326
72203 27629 29002 27457 54353 70360 25136 33289 73294 33793
85059 42311 43460 00029 43964 28897 03783 74058 53446 59203
00941 43744 00152 78152 93015 41846 34675 47681 09493 89793
09154 28449 28552 27877 46986 22194 57580 61553 93121 16910
27839 78561 18345 02058 39239 88175 00000

11166 70202 96142 10089 02119
92361 62075 50109 05311 69988 29212 92052 02475 73805 42109
44619 00946 20420 26830 28347 29461 58754 29246 53805 21991
39311 80059 40508 81069 74537 15413 13665 30276 44999 26485
45945 91816 31037 36537 36450 50140 74602 28841 44083 87531
00956 73912 17497 02607 54916 29509 88818 47663 31346 11817
23318 45813 04565 61258 42234 73835 86377 51381 60930 21695
67398 14236 09560 64651 21368 80705 28450 08910 77141 59209
55378 96744 88047 01225 46922 82022 53289 27061 01093 12090
71090 10328 73409 76929 28261 44529 03635 11553 55883 40225
95327 62542 05793 26199 15425 54699 27552 53063 06029 18718
50592 22746 25584 65843 01231 92294 61642 20432 09229 25430
82394 46359 83590 90294 19158 28218 62290 26831 97011 93232
65609 32225 55760 84839 07778 37850 28422 23862 46597 76157
69418 18222 75751 60944 49659 07122 89467 29435 60717 50635
74235 19623 95260 00657 07263 81293 95949 14120 66358 44188
89978 94447 80926 91724 51445 72165 78759 13728 58744 60605
08327 36597 39162 47646 41232 54357 17875 09433 84533 09021
13520 56996 57622 93710 47539 51727 13334 76966 59485 50638
07982 71685 45464 67335 50013 97129 61911 59666 81959 07433
61895 79954 75375 85052 56118 48775 43455 22601 15815 38196
01016 41488 59734 75438 26518 20825 92393 02879 05845 89209
00000

12177/10156/8138 kHz, 12-11, 0700/0715/0730 UTC File 44490 (binary contents)
10231/8082/6869 kHz, 12-11, 1200/1215/1230 UTC File 44490 (binary contents)

12177/10156/8138 kHz, 13-11, 0700/0710/0720 UTC
10231/8082/6869 kHz, 13-11, 1200/1210/1220 UTC

11166 70202 85324 12091 01639
23665 93306 08973 83798 61424 97133 89092 18502 51462 59922
15938 66769 10555 81937 47754 79367 65253 34589 09819 98876
84399 16743 44783 55124 75015 27936 47476 82975 90011 00671
95124 17174 21153 58974 08921 43924 75707 95422 07869 13900
60236 83804 40867 46359 19937 69615 07934 79069 06999 05579
06544 43715 76399 24366 63992 71480 32575 65714 41739 58501
75412 00129 22654 45859 18994 16350 17116 93822 81529 64782
48893 55007 69922 74061 06756 76155 07403 82962 72731 83206
77656 54818 62973 29370 83905 66651 42161 10860 46362 90198
97365 80003 86498 07013 82333 10394 71571 24846 68116 93783
17842 87474 60981 73404 75918 95183 73552 43401 46670 78070
60102 69061 01139 89375 51950 07538 02903 11021 53887 33748
56307 88534 87585 01133 29017 37571 92901 91966 22329 89184
23043 36910 87660 66077 94510 08484 12685 06974 77768 18154
25519 81343 39567 71728 90423 61631 72873 62728 93437 45204
75330 08443 41400 43182 62190 58350 22783 78362 24658 29580
03774 91161 00000

11166 70202 63214 12092 02039
30310 17503 48757 71423 91583 25657 83107 34420 79476 13174
78446 87290 61714 98842 04472 32308 93575 53656 64180 99568
76111 10675 36904 30926 19540 00758 50742 10893 41512 62616
26572 55450 54917 00620 60830 94708 24938 88796 39253 10355
00021 44458 98761 13820 46469 19890 79673 76101 41328 85553
35439 45197 03267 03222 92088 12060 66127 12498 74559 11034
24845 79145 42124 65695 08417 78682 00073 16048 59600 13653

79861 87993 26053 88042 04898 91036 92575 87245 84169 55140
09153 37048 00879 42683 94492 40048 88294 96453 19734 12949
09997 09611 02020 73178 86696 28563 62620 48260 36835 24687
29298 06367 23131 95837 87589 31513 22283 83577 10714 22843
23288 82383 91392 83342 27051 39845 41501 21676 52624 74924
77471 57949 85867 76364 35005 73371 39075 77639 55224 61015
19716 55326 43943 79385 67194 75610 90657 09522 98316 31298
97025 05632 83375 18937 19915 10475 12033 81903 05290 51995
65419 56574 26494 64935 53108 73936 61727 77402 35920 23239
73763 08637 69690 69559 92198 77465 32452 79379 78793 20154
43688 92543 65679 98682 24581 85198 49509 66630 45434 32579
46815 21199 81679 50749 60147 94077 22154 10653 00780 77139
85556 10090 82025 87922 01000 00000

12177/10156/8138 kHz, 14-11, 0700/0710/0720 UTC No transmissions

12177/10156/8138 kHz, 17-11, 0700/0715/0730 UTC File 44495 (binary contents)

10231/8082/6869 kHz, 17-11, 1200/1215/1230 UTC File 44495 (binary contents)

On 18-21 Nov there were no transmissions in the 0700 and 1200z slots but alternative transmissions at 1400/1415/1430z

12177/10156/8138 kHz, 18-11, 0700/0710/0720 UTC No transmissions

10231/8082/6869 kHz, 18-11, 1200/1210/1220 UTC No transmissions

11136/9947/6785 kHz, 18-11, 1400/1415/1430 UTC File 44401 (binary contents, 284 bytes) binary contents interspersed with ASCII CRLF sequences. Hexadecimal dump below

```

00000000 0d 0a df 89 ed 07 b4 5f 57 3a 5f cb df b3 5f a3 |....._W:....|
00000010 75 82 3f f3 ac 07 27 5e 45 1a 5b d1 b8 c9 08 5d |u.?...'^E.[....]|
00000020 06 76 fc 50 fa d3 36 1e 99 82 41 c7 ee 8c 42 d5 |.v.P..6...A...B.|
00000030 c9 42 7c 16 b3 47 72 7b 11 23 3f 70 bb 94 70 14 |.B|..Gr{.#?p..p.|
00000040 c5 62 2a 2b 33 27 3b 78 55 fe c1 2e 83 ee 83 b1 |.b*+3';xU.....|
00000050 c6 9b d5 4c b2 59 ca 31 d9 2f 3f b9 4e 33 04 73 |...L.Y.1./?.N3.s|
00000060 e8 85 8b 1d 3c 10 88 d2 0d 0a 06 08 21 71 09 95 |....<.....!q..|
00000070 51 a2 31 6b d5 0d 0a c1 2b f2 94 d4 2b 76 4d 56 |Q.1k....+...+vMV|
00000080 15 04 8f d1 19 bd ed ab 2f 28 1b 29 23 f0 0b df |...../(.)#...|
00000090 1e 4c 05 3b 26 45 4d 9e 7e 55 04 da d0 1e 90 ba |.L.;&EM.~U.....|
000000a0 ea 5a 3c 91 7f a5 a1 2b 79 ed bf 95 57 94 86 02 |.Z<....+y...W...|
000000b0 a1 20 54 35 ab 75 a4 7e 67 0d 0a 99 36 d5 56 9f |. T5.u.~g...6.V.|
000000c0 d7 75 69 f2 af 56 f6 d5 69 51 b8 fe 6e 54 b4 c9 |.ui..V..iQ..nT..|
000000d0 d0 64 c8 47 b0 bb bb a6 de 98 a5 89 1a 7e a6 31 |.d.G.....~.1|
000000e0 b7 0d 0a 77 b0 0d 0a 0f 63 98 46 dd 73 f0 5f 2c |...w....c.F.S._|
000000f0 fa c1 9e ec 76 29 17 76 b6 21 61 8e 54 82 73 a8 |....v).v.!a.T.s.|
00000100 5d bc a8 95 a7 12 46 99 25 b8 ed 37 ea 89 58 d2 |]....F.%..7..X.|
00000110 06 5b b5 60 54 88 3e c4 75 be 0d 0a |.[. `T.>.u...|

```

12177/10156/8138 kHz, 19-11, 0700/0715/0730 UTC No transmissions

10231/8082/6869 kHz, 19-11, 1200/1215/1230 UTC No transmissions

11136/9947/6785 kHz, 19-11, 1400/1415/1430 UTC File 44402 (binary contents)

12177/10156/8138 kHz, 20-11, 0700/0710/0720 UTC No transmissions

10231/8082/6869 kHz, 20-11, 1200/1210/1220 UTC No transmissions

11136/9947/6785 kHz, 20-11, 1400/1415/1430 UTC 11166 70202 24361 19027 00049 55555 55555 55555 00000

12177/10156/8138 kHz, 21-11, 0700/0710/0720 UTC No transmissions

11136/9947/6785 kHz, 21-11, 1400/1415/1430 UTC File 44403 (binary contents)

12177/10156/8138 kHz, 24-11, 0700/0715/0730 UTC File 44496 (binary contents)

10231/8082/6869 kHz, 24-11, 1200/1215/1230 UTC File 44496 (binary contents)

12177/10156/8138 kHz, 25-11, 0700/0710/0720 UTC

10231/8082/6869 kHz, 25-11, 1200/1210/1220 UTC

11166 70202 34681 24097 01059

62217 57217 09114 61714 58395 75625 83201 14539 95286 28149
07144 45849 34743 64446 06257 42359 85978 83882 18854 78033
05809 80474 39698 25097 22425 05503 51830 06933 68638 77493
95215 35065 35537 94245 45646 97407 82489 26603 02328 89971
64434 98642 07605 09221 62389 83989 47246 47251 28127 72919
04734 56999 78938 89955 67998 79651 03443 66644 12026 51448
64361 99186 05791 32071 09207 45627 16931 21805 24817 42279
12626 59644 96673 44069 80095 19557 58949 18511 15171 47075
46206 47958 52363 03400 82696 19868 34877 09226 70202 09720
48006 05448 60339 86314 64339 72954 22278 94113 74225 78694
41810 92319 99923 97103 00000

11166 70202 96374 24098 02339

16169 03860 87509 08449 35001 44164 32555 15253 96731 90500
48252 91841 60319 62338 30362 84081 65423 84613 11741 72148
67385 81372 24322 49181 74260 79677 12367 56286 65580 22192
89172 34827 97554 11904 54423 81935 24372 37415 14379 20185
90313 52226 72070 17354 72343 06474 79720 17239 77886 54541
70541 67423 27461 86982 12128 54971 76865 60206 48608 85957
58603 22349 23765 69791 47232 58775 02288 94258 78329 05648
31368 02220 75755 04997 09807 05918 66906 99734 56832 99809
90642 92049 97811 57874 27581 13613 09044 26334 07435 81041
88825 47717 73100 35053 46969 77211 06158 86747 29968 77239
43492 19457 23991 01189 39717 19602 02906 02247 55082 34979
13493 28267 73553 83942 15071 88607 80768 63889 15693 03883
56532 32504 72118 74559 61549 60193 45737 29340 23097 77153
31640 39266 49291 63498 03026 08487 26669 55891 38121 77618
80752 69129 21808 00645 04292 56087 39153 81289 82863 54499
03011 79793 72532 93974 82898 26044 09242 61723 27330 99992
54630 50393 96794 65286 07970 36488 49564 67069 38892 62780
47521 29871 20617 23168 74198 16542 68343 73412 82205 34151
12515 16191 12245 97802 61627 33900 50889 88290 34279 67658
19326 64548 65150 65927 10235 16813 14584 51209 15009 71455
36482 78243 08487 83406 84182 82142 83395 77115 59007 39910
51686 21985 31185 93777 54954 53211 87815 09787 51128 73982
87578 70074 69610 99946 26860 22277 52073 31917 47003 34505
21077 98231 00000

12177/10156/8138 kHz, 26-11, 0700/0715/0730 UTC

File 44499 (binary contents)

10231/8082/6869 kHz, 26-11, 1200/1215/1230 UTC

File 44499 (binary contents)

12177/10156/8138 kHz, 27-11, 0700/0710/0720 UTC

10231/8082/6869 kHz, 27-11, 1200/1210/1220 UTC

11166 70202 62145 26001 01759

92926 23552 94341 53609 86643 10698 27472 29214 29185 19717
22771 99994 70805 47945 72265 27810 04467 53532 08380 58158
49527 67619 33570 12087 30055 79658 15681 06723 96205 38068
59958 59095 62112 33402 93666 52956 58706 56233 24231 73265
24924 46926 56863 38046 85728 79489 82591 82294 90386 46710
72636 73618 09429 38728 40078 64305 13754 32265 54742 09512
84281 32690 22244 06238 25627 36089 63135 32805 82200 03559
53083 93500 80198 64881 10022 98087 43902 93790 39216 30869
59740 22002 72167 88982 86528 84202 60313 94631 35352 11184
09445 10921 67506 13309 65781 15994 83947 21494 89648 15165
04674 77905 77686 95718 61500 93541 19539 54081 52639 14907
99938 50033 32536 66943 82154 67666 35403 64432 33717 87769
55872 09030 80364 01318 35223 14141 99154 18770 26611 24809
86671 54856 37734 24818 63265 93530 74384 48179 99268 62802
33312 37211 74122 74102 17844 14384 04345 05899 74692 60117
01291 36237 75399 13729 44635 53884 90837 39714 82506 02789

32220 26540 94230 39514 57054 10153 76602 08360 63467 39376
39630 63837 21359 01173 00000

11166 70202 62147 26002 01839
90908 99240 81159 27050 37897 23746 59207 33473 43799 86530
61291 93572 37127 39512 68749 97803 63994 57373 50573 44032
53245 56963 29172 10103 98087 99222 58739 89409 52671 65813
77143 94133 67042 27641 17308 55851 08912 47462 88984 78182
45685 83757 66886 21193 85175 88070 46100 22206 98449 12979
50724 82736 73242 72907 06661 76229 71367 24953 14517 56272
88579 61926 83527 69999 40309 34777 12464 06349 21711 46609
28439 33875 15478 85461 19572 07800 45831 88045 22433 50984
02152 51635 50208 38518 80672 36273 72530 40614 17675 24514
82905 03478 12627 30862 14668 72866 64701 78107 91419 90005
71108 82748 22870 14553 60685 16678 82030 54308 61171 37327
24686 06343 23623 03457 37099 39245 52380 18779 22865 71163
14049 70599 64870 23347 23922 55663 23286 53847 33273 10402
55530 01097 65977 87752 69142 92030 77876 47757 43508 94447
37338 54114 81364 18301 50450 93869 76033 95597 79270 62451
05306 93599 26591 81213 87937 41015 85635 39689 63667 71864
78141 79743 82712 16710 29256 63804 15680 95932 52684 94360
19813 94756 44532 76920 22535 24687 09280 43615 08210 01071
66311 02181 00000

12177/10156/8138 kHz, 28-11, 0700/0710/0720 UTC

11166 70202 18742 28025 00049 00000 00000 00000 00000

Link 80214

17465/14858/11631 kHz, 06-11, 1330/1340/1350 UTC

11166 80214 61483 06082 00049 00000 00000 00000 00000

17465/14858/11631 kHz, 13-11, 1330/1340/1350 UTC

11166 80214 15487 13022 00049 00000 00000 00000 00000

17465/14858/11631 kHz, 20-11, 1330/1340/1350 UTC

11166 80214 21478 19055 00049 00000 00000 00000 00000 (wrong date)

17465/14858/11631 kHz, 27-11, 1330/1340/1350 UTC

11166 80214 18452 26056 00049 00000 00000 00000 00000 (wrong date)

F06a

10183/9143/8138 kHz, 31-10, 1800/1815/1830 UTC

File 44047 (binary contents)

13574/12142/11456 kHz, 01-11, 0600/0615/0630 UTC

File 44047 (binary contents)

16274/18677/20889 kHz, 05-11/06-11, 0600/0615/0630 UTC

File 47467 (binary contents)

16274/18677/20889 kHz, 12-11/13-11, 0600/0615/0630 UTC

File 44668 (binary contents)

16274/18677/20889 kHz, 19-11/20-11, 0600/0615/0630 UTC

File 84469 (binary contents)

16274/18677/20889 kHz, 26-11/27-11, 0600/0615/0630 UTC

File 49470 (binary contents)

23467/19670/18043 kHz, 08-11, 1600/1615/1630 UTC

File 44437 (binary contents)

19177/18493/17517 kHz, 09-11, 1600/1615/1630 UTC

File 44437 (binary contents)

23467/19670/18043 kHz, 15-11, 1600/1615/1630 UTC

File 44437 (binary contents)

19177/18493/17517 kHz, 16-11, 1600/1615/1630 UTC

File 44437 (binary contents)

23467/19670/18043 kHz, 22-11, 1600/1615/1630 UTC

File 44437 (binary contents)

19177/18493/17517 kHz, 23-11, 1600/1615/1630 UTC

File 44437 (binary contents)

23467/19670/18043 kHz, 29-11, 1600/1615/1630 UTC

File 44437 (binary contents)

19177/18493/17517 kHz, 30-11, 1600/1615/1630 UTC

File 44437 (binary contents)

11168/7727/5387 kHz, 06-11, 0730/0745/0800 UTC

File 04403 (1040 bytes, binary contents)

11145/7467/5257 kHz, 07-11, 1400/1415/1430 UTC

File 04404 (1013 bytes, binary contents)

File 04405 (1143 bytes, binary contents)
Files 04406 (binary contents) and 04407 (binary contents)
Files 04406 (binary contents) and 04407 (binary contents)

File 40448 (binary contents)
File 40448 (binary contents)

```
File 44452 (1586 bytes, binary contents, empty text header)
File 44452 (1586 bytes, binary contents, empty text header)
File 44453 (1951 bytes, binary contents, empty text header)
File 44453 (1951 bytes, binary contents, empty text header)
File 44454 (956 bytes, binary contents, empty text header)
File 44454 (956 bytes, binary contents, empty text header)
File 44455 (1742 bytes, binary contents, empty text header)
File 44455 (1742 bytes, binary contents, empty text header)
11100 00000 56914 17028 00049 24863 12584 80943 00000
11100 00000 56914 17028 00049 24863 12584 80943 00000
11100 00000 89562 19056 00049 00000 00000 00000 00000
No transmissions
```

8182 kHz, 04-11/06-11/11-11/13-11/18-11/20-11/25-11/27-11, 2000 UTC
7856 kHz, 04-11/06-11/11-11/13-11/18-11/20-11/25-11/27-11, 2010 UTC
7541 kHz, 04-11/06-11/11-11/13-11/18-11/20-11/25-11/27-11, 2020 UTC
6992 kHz, 04-11/06-11/11-11/13-11/18-11/20-11/25-11/27-11, 2030 UTC
6802 kHz, 04-11/06-11/11-11/13-11/18-11/20-11/25-11/27-11, 2040 UTC
5818 kHz, 04-11/06-11/11-11/13-11/18-11/20-11/25-11/27-11, 2050 UTC

UAL: MFA Moscow wkg UAG: Russian embassy Havana. Barely audible. Havana not monitored

UAL: MFA Moscow wkg UAG: Russian embassy Havana. Switched to 14970 kHz at 1304z

UAL: MFA Moscow wkg UAG: Russian embassy Havana. Switched to 20115 kHz at 1307z

UAL: MFA Moscow wkg UAG: Russian embassy Havana

11100 70103 32147 13155 04009
68109 88995 76422 74462 23815 64414 51940 13996 80305 86596
89513 75324 54964 03363 07822 24685 18098 36939 46379 76608
02217 24056 34811 84085 71548 57326 68485 60448 50266 20080
51423 37701 32824 31838 92440 90942 24877 46623 65438 83605
88191 71290 69801 13176 88002 96062 51826 62090 66254 54456
73125 83495 89147 54800 36935 76562 42451 50514 08279 31032
72993 41349 88911 45695 99793 22769 32987 50476 43256 25668
14388 86824 45862 13606 81645 26096 82812 29748 61407 30599
86042 10706 96366 87017 30060 09450 28606 66876 53025 94504
64290 93744 11538 17588 80641 21872 92540 66904 61136 55931
30795 48265 69871 66561 05357 61233 01011 81407 13502 62464
64286 56323 45519 33458 92457 56451 08826 94877 81687 01841
74841 34646 00767 57313 47041 41996 30116 71249 73650 64670
16525 92989 53398 31445 54533 23536 07778 07179 30425 79243
18244 72569 89749 73185 51799 45798 14317 43883 23385 88269
19606 86082 68532 61600 08515 63279 24705 28088 42403 06656

44771 11808 15350 30144 91036 62547 42579 16280 83287 89760
98975 52552 99271 58730 68642 22922 51063 66121 91423 84212
85734 37121 17348 82040 83791 11342 04907 85994 53795 09690
24129 48734 46613 99368 50373 18702 37739 99226 59778 61139
51111 92608 62316 67091 22882 39931 33375 55080 28552 08137
29820 95152 21938 59244 01463 09966 59378 65157 33874 32626
07639 40933 83486 25939 58950 13718 90919 92780 01600 69449
32800 14456 29910 01300 02660 21434 19432 55551 17919 27023
08570 80864 12112 77228 72119 42760 50065 47923 23111 49646
65913 43151 23627 96284 30227 74536 00617 36532 82873 69312
04773 71493 42527 61648 85922 20189 28784 46964 83344 64939
57811 03921 54484 88637 97466 13777 90465 46105 92829 31789
91871 36719 98081 90360 03211 70491 75668 38607 29510 44801
48685 48040 83478 73950 17427 39050 36673 38743 76027 07878
73104 48273 90146 58761 68723 31103 21613 70947 45226 98026
10994 55251 71606 43601 54001 79856 11907 78635 32688 70042
42592 10828 87365 11520 87997 15725 40181 12073 47268 65211
06294 01186 11256 05700 53585 72343 92779 03220 96844 97703
18713 97583 37358 69812 57322 32828 83854 50055 79291 56105
15727 28548 75885 02227 74487 25121 82671 06033 94371 86125
82246 09785 08045 56708 84408 57762 88350 33276 07206 95257
12017 25820 07301 14149 56286 84785 33088 12249 64386 72185
99005 58600 40789 81639 04476 81924 62188 37025 45907 24403
15142 24427 95208 27969 96309 37080 43235 45317 36226

18726 kHz, 13-11, 1256 UTC, FSK 75/100

UAG: Russian embassy Havana. Test: RYRYRYRYRYRYRYR VVV

18726 kHz, 13-11, 1300 UTC, FSK 75/100

UAG: Russian embassy Havana wkg UAL: MFA Moscow

UAG UAG UAG followed by opchat. Message at 1308z.

RY

11100 70103 36521 13155 04003
27128 17673 79182 92410 20672 66162 07421 72225 61210 17865
19484 42765 77412 78406 29896 83645 77391 13519 68176 21746
66909 83829 71516 88308 03622 59817 78326 80434 73292 46638
71096 69152 98913 73498 42022 21266 18686 27264 79809 27157
93768 35003 01116 51731 31765 25132 75054 50692 36860 21872
14209 19345 22558 52685 30576 66094 47959 73395 79903 27851
63500 40661 42829 69506 77117 86511 16288 34688 76741 74611
13598 39964 70096 42955 96682 29697 27700 62676 88860 33729
40045 67654 41631 95083 24864 34611 53909 59878 45433 18382
67139 46629 25851 72054 84716 37138 74226 06651 89173 56151
49710 70055 55550 31971 34320 49864 84397 55215 95477 29847
02845 77908 50216 54713 07169 20093 66978 82865 45313 76142
65954 31827 62776 37978 03887 46031 60320 77357 54291 41668
36936 54442 19025 08263 16495 44816 32131 71684 81532 02150
41921 48261 62599 98697 82203 44705 56611 10816 68615 83520
72646 41682 80994 58589 28618 98418 17711 50615 47265 65786
32925 57127 24896 43660 92679 16712 71321 40451 10784 32183
44423 39679 50418 22350 27781 81875 02403 57100 24809 29007
76053 55461 67829 03603 63588 51344 65531 19784 63993 56645
37238 48360 77303 76404 07435 83216 05235 55693 58982 01139
19094 62940 68467 32292 80917 39358 72107 83532 28769 69181
35675 81734 62130 50383 26847 29326 88333 70576 13446 89219
15962 17771 35989 41327 06163 80688 27998 77835 17809 18309
82493 29454 07439 03347 88124 39791 69929 69341 83360 30073
30822 16044 02187 21379 26248 52796 09746 06582 31389 84584
51353 89185 23410 70454 63329 31246 89805 08982 19093 77553
18087 30475 08933 48286 27760 00609 76919 17291 30528 65168
63382 18213 29644 90595 26383 45633 94371 80022 40635 43415
70477 69478 97306 97451 12693 33970 53134 74989 50092 58097

UAG: Russian embassy Havana wkg UAL: MFA Moscow.

11100 70103 12489 27162 04003

90146 47448 23202 21727 05961 74144 20089 49669 95512 32741
75371 78099 00403 84056 32175 92843 75701 08193 89813 59490
69451 20838 79053 68459 91737 37326 76139 73911 52979 82878
47792 87439 76160 72489 44332 12490 12668 08859 83154 30438
16425 71847 89706 74266 56029 97862 88186 50772 69545 72624
59124 97253 91680 85751 06054 83601 07997 20595 98449 95739
15868 77773 83123 61355 96862 55826 81264 03844 30237 37439
13307 35418 02234 54672 18828 25318 90861 31631 63639 04051
30858 28014 51285 89605 88511 31976 81116 46579 01035 75751
20133 14146 60179 72459 80786 63817 44767 97546 21926 72923
31852 63292 15077 24751 41159 59817 43239 71280 92536 61034
24389 19463 81063 18977 76881 26964 99532 94949 68928 18319
62980 00926 19353 57437 14954 49637 41792 37392 20206 36797
49556 73429 73504 03887 63305 10144 79233 54946 88759 78743
81499 25804 56607 65356 49396 29193 41808 76308 47143 24172
04487 11308 43770 83314 19582 80485 42045 00024 87467 26207
31321 51788 42707 35622 94000 90752 03146 54866 20302 96783
26520 40859 11011 29738 66774 11641 72905 81402 47275 81180
36555 83205 93100 89597 51156 99173 89607 64722 36118 02596
59449 75953 94064 59794 75243 66325 14960 69483 50063 73750
26023 31120 72961 77341 67140 40695 81684 29787 96451 37412
89801 61686 55794 49673 10393 68798 50703 13824 43528 18145
24651 64093 19690 33884 32207 17149 16343 48926 40813 99734
89838 33189 15866 92805 89839 34468 68774 90596 48446 92831
72708 98086 61221 14493 75697 15263 02299 16088 65787 81647
40757 75309 67935 79519 50452 48816 77325 19251 30495 43371
58804 55225 78562 51138 67113 05754 84223 85077 67609 75426
34477 75371 62161 03356 48681 12830 49915 85723 85066 50203
77597 46089 86016 97338 59072 51889 54311 71127 68812 00560
77502 86173 38989 23735 42639 97118 14861 82940 08494 28572
48153 55231 27511 53564 33109 32211 34640 06491 14909 80868
45255 41444 25135 39656 29345 71914 23979 48280 54154 52759
53873 34600 12480 90406 34236 07108 78783 92211 52016 26404
60342 90914 27729 54118 35590 05135 61662 02708 96866 21830
89954 34571 39737 11674 05214 83918 66089 13282 21382 99832
93184 47214 87524 33956 85853 45705 80226 21250 54025 09060
29300 27247 82773 24635 56470 60261 87073 09366 31744 71961
08447 61764 77138 94768 95698 34318 72460 89507 3691+ 62251
42823 01749 34913 09559 32596 50277 43364 18270 95454 96127
05706 71870 55244 65632 64107 08820 17324 25893 30629

5800 kHz, 01-11, 0700 UTC, FSK 50/500
8195 kHz, 01-11, 0700 UTC, FSK 50/500
11065 kHz, 01-11, 0700 UTC, FSK 50/500
11080 kHz, 01-11, 0700 UTC, FSK 50/500
11470 kHz, 01-11, 0700 UTC, FSK 50/500
13985 kHz, 01-11, 0700 UTC, FSK 50/500
15940 kHz, 01-11, 0700 UTC, FSK 50/500
7635 kHz, 04-11, 0957 UTC, FSK 50/500

RYF2: Russian PtP link. Link partner on 8115 kHz not active
RNM2: Russian PtP link. Link partner on 9185 kHz not active
RWB3: Russian PtP link. Link partner on 13870 kHz not active
RDI: Russian PtP link. Link partner on 14485 kHz not active
RGY2: Russian PtP link. Link partner on 17475 kHz not active
RRQ6: Russian PtP link. Link partner on 16180 kHz not active
RPD2: Russian PtP link. Link partner on 15870 kHz not active
RWA50: Russian PtP link, poss Rostov na Donu area, kg w/RLC2 (?)

14380 kHz, 05-11, 1410 UTC, FSK 50/500

OOOOOOOOOOO (repeated)

5350 kHz, 06-11, 0747 UTC, FSK 50/500
5735 kHz, 06-11, 0940 UTC, FSK 50/500
5800 kHz, 06-11, 0747 UTC, FSK 50/500
5845 kHz, 06-11, 1031 UTC, FSK 50/500
6870 kHz, 06-11, 0954 UTC, FSK 50/500
8195 kHz, 06-11, 0745 UTC, FSK 50/500
11065 kHz, 06-11, 0740 UTC, FSK 50/500
11470 kHz, 06-11, 0740 UTC, FSK 50/500

RAU2: Russian PtP link sending reversals
RNV2: Russian PtP link, reversals
RYF2: Russian PtP link, reversals
Unid Russian PtP link, reversals
RAZ: Russian PtP link, reversals
RNM2: Russian PtP link, reversals
RWB3: Russian PtP link, reversals
RGY2: Russian PtP link, reversals

4816 kHz, 07-11, 0710 UTC, CW

Russian PtP link. DATZ calling VFGK, then opchat as VFGK is off frequency
i.p. QSA2 QLP2T QLP2T K
CFM K
VFGK VFGK VFGK DE DATZ DATZ K
QSA1 QLP2T QLP2T K
BK BK QLP2T QLP2T
CFM K
BK BK QSA3 QRU K
VFGK VFGK VFGK DE DATZ DATZ K
QSA3 QSA? K
VFGK VFGK VFGK DE DATZ DATZ K
VFGK VFGK VFGK DE DATZ DATZ K
VFGK VFGK VFGK DE DATZ DATZ K
VFGK VFGK VFGK DE DATZ DATZ K
QSA NO QSY 71899 QSY 71899 K
VFGK VFGK VFGK DE DATZ DATZ K
QSA NO QSY 71899 QSY 71899 K
VFGK VFGK VFGK DE DATZ DATZ K
QSA NO QSY 71899 QSY 71899 K
VFGK VFGK VFGK DE DATZ DATZ K
QSA NO QSY 71899 QSY 71899 K
VFGK VFGK VFGK DE DATZ DATZ K
QSA NO QSY 71164 QSY 71164 K
VFGK VFGK VFGK DE DATZ DATZ K
QSA NO QSY 71164 QSY 71164 K
VFGK VFGK VFGK DE DATZ DATZ K
QSA NO QSY 71164 QSY 71164 K
VFGK VFGK VFGK DE DATZ DATZ K
QSA NO QSY 71164 QSY 71164 K
VFGK VFGK VFGK DE DATZ DATZ K
QSA NO QSY 71164 QSY 71164 K
VFGK VFGK VFGK DE DATZ DATZ QSA NO NIL SK

5350 kHz, 08-11, 1036 UTC, CW

RAI8: Russian PtP link. At 1117z technical opchat after linking failures on RAU2/RNI2 link:
RRS6 DE RAI8 GD QSA
RRS6 DE RAI8 QSA
ZNN GB 55 73 SN SN

5469 kHz, 08-11, 1530 UTC, CW

AIFH: Russian PtP link. Opchat with CDAP, CDAP on 5931 kHz. AIFH confirms received
msg from CDAP: CFM NIL QRU K

5484 kHz, 08-11, 1530 UTC, CW

Unid Russian PtP link. Opchat, too weak to copy

4816 kHz, 10-11, 1714 UTC, FSK 50/500

Russian PtP link. DATZ wkg VFGK. Opchat and msg
VFGK VFGK VFGK DE DATZ DATZ K
QSA3 QSA? K
OK ZVP KB KB K
QRV K K
R T34 1713 K
QTC 1 ZZC K

4816 kHz, 11-11, 1714 UTC, FSK 50/500

5800 kHz, 11-11, 0750 UTC, FSK 50/500
12121 kHz, 11-11, 0800 UTC, FSK 50/500
5145 kHz, 12-11, 0508 UTC, FSK 50/500
5469 kHz, 12-11, 1528 UTC, CW

5735 kHz. 12-11, 0813 UTC, FSK 50/500

13375 kHz, 13-11, 1100 UTC, FSK 50/500

4816 kHz, 13-11, 1700 UTC, FSK 50/500
12121 kHz, 13-11, 0759 UTC, CW

14485 kHz, 14-11, 0935 UTC, FSK 50/500

13375 kHz, 14-11, 1130 UTC, FSK 50/500

46

9130 kHz, 14-11, 1024 UTC, FSK 50/500

Russian PtP link. RWI wkg UIA7, readability problems, RWI transmit pre-written test tape to UIA7, says gb 73 at 1158utc and off air at 1229z.

On the 13th, the link was established, but the "readability" was probably low, as RWI was sending test slips fm ~1146z

9130 kHz, 14-11, 1146 UTC, FSK 50/500

121752
ЖЖЖ УИА7 УИА7 УИА7 ДЕ РВИ РВИ ЩРКО НВ 4 1= 11 21 4 =У=
В 4АЩАХ ЮГА ЖИЛ БЫЛ ЦИТРУС, ДА НО ФАЛЫШИВЫЙ ЭКЗЕМПЛЯР
В 4АЩАХ ЮГА ЖИЛ БЫЛ ЦИТРУС, ДА НО ФАЛЫШИВЫЙ ЭКЗЕМПЛЯР
В 4АЩАХ ЮГА ЖИЛ \$
121752

or in Latin alphabet:

121752 ZHZHZH UIA7 UIA7 UIA7 DE RVI RVI SHCHRK0 NV 4 1= 11 21 4 =U= V
4ASHCHAKH YUGA ZHIL BYL TSITRUS, DA NO FALYSHIVYY EKZEMPLYAR V 4ASHCHAKH
YUGA ZHIL BYL TSITRUS, DA NO FALYSHIVYY EKZEMPLYAR V 4ASHCHAKH YUGA ZHIL
\$ 121752

translated in English:

121752
ZhZh UIA7 UIA7 UIA7 DE RVI RVI ЩРКО НВ 4 1= 11 21 4 =У=
In the south there lived a citrus tree, but it was a fake one
In the south there lived a citrus tree, but it was a fake one
In the south there lived a \$
121752

ЖЖЖ УИА7 УИА7 УИА7 ДЕ РВИ РВИ ЩРКО НВ 4 285 11 25 4 =У=
В 4АЩАХ ЮГА ЖИЛ БЫЛ ЦИТРУС, ДА НО ФАЛЫШИВЫЙ ЭКЗЕМПЛЯР
В \$
121752

< Repeats of varying lengths of the test tape >

121752
ЖЖЖ УИА7 УИА7 УИА7 ДЕ РВИ РВИ ЩРКО НВ 4 285 11 25 4 =У=
В 4АЩАХ ЮГА ЖИЛ БЫЛ ЦИТРУС, ДА НО ФАЛЫШИВЫЙ ЭКЗЕМПЛЯР
В 4АЩАХ ЮГА ЖИЛ БЫЛ ЦИТРУС, ДА НО ФАЛЫШИВЫЙ ЭКЗЕМПЛЯР
В 4АЩАХ ЮГА ЖИЛ БЫЛ ЦИТРУС, ДА НО ФАЛЫШИВЫЙ ЭКЗЕМПЛЯР
ПРОВЕРКА СВЯЗИ. ПРОВЕРКА СВЯЗИ. ПРОВЕРКА СВЯЗИ
ПРОВЕРКА C1+8
11111 22222 33333 44444 55555 66666 77777 88888 99999 00000
= A
РЯТ АЛ ЩРК? К
\$
121752

translated in English:

121752
ZZZ UIA7 UIA7 UIA7 DE RVI RVI ЩРКО НВ 4 285 11 25 4 =У=
In the south there lived a citrus tree, but it was a fake one
In the south there lived a citrus tree, but it was a fake one
In the south there lived a citrus tree, but it was a fake one
Checking connection. Checking connection. Connection check
check C1+8
11111 22222 33333 44444 55555 66666 77777 88888 99999 00000

They end their daily schd at 1158utc with their regular friendly "gb 73", goes into F1B 50/500 revs and off air at 1229utc.

Interesting are the "1121 / 1125", is it time marks?? In case they (too) are using UTC, and the "test tape" message was already written at 1125z prior to transmission fm ~1146z. (ЖЖЖ УИА7 УИА7 УИА7 ДЕ РВИ РВИ ЩРКО НВ 4 1= 11 21 4 =У=)

12121 kHz, 22-11, 0800 UTC, CW	Russian intel/diplo. A2PJ wkg 2B8Y. Linking problems: 2B8Y DE A2PJ QSA NO == NW QSY 19935 QSY 19935 K (repeated)
10180 kHz, 24-11, 1237 UTC, CW	NT9P NT9P NT9P DE K4MT K4MT K (repeated) NT9P NT9P NT9P DE K4MT K4MT QSY 87092 QSY 87092 QSY 87092 K (repeated) NT9P NT9P NT9P DE K4MT K4MT QSY 48648 QSY 48648 QSY 48648 K (repeated) NT9P NT9P QSA4 AS K QSY 84092 QSY 84092 K NT9P NT9P NT9P DE K4MT K4MT QSY 84092 QSY 84092 K (repeated) NT9P NT9P NT9P DE K4MT K4MT QSY 90414 QSY 90414 K (repeated) NT9P NT9P NT9P DE K4MT K4MT QSA NO NIL SK (ended at 1301z)
9206 kHz, 25-11, 1231 UTC, CW	NT9P NT9P NT9P DE K4MT K4MT K NT9P NT9P NT9P DE K4MT K4MT K QSA1 QSY 94214 QSY 94214 K NT9P NT9P NT9P DE K4MT K4MT QSA NO QSY 94214 QSY 94214 K (repeated) NT9P NT9P NT9P DE K4MT K4MT QSA NO QSY 95484 QSY 95484 K (repeated) NT9P NT9P NT9P DE K4MT K4MT QSA NO NIL SK
4026 kHz, 25-11, 0550 UTC, FSK 50/500	Russian intel/diplo. PLXW wkg PZAK. Opchat + message
4461 kHz, 25-11, 0550 UTC, FSK 50/500	Russian intel/diplo. PZAK wkg PLCW. Opchat + message #366
4538 kHz, 25-11, 1710 UTC, CW	Russian intel/diplo. VFGK wkg DATZ on 4816 kHz
5845 kHz, 26-11, 0708 UTC, FSK 50/500	Russian PtP link. RUH wkg UIA7. Ends with 280751 UIA7 DE RUH OK QRK0 ZNN GB
12121 kHz, 28-11, 0800 UTC, CW	Russian intel/diplo. FB9N clg M4YaO who doesn't respond and asks for a freq change == NW QSY 9T98T, THEN QSY 9188T and finally QSY 91T45. FB9N gives up at 0828z with QSA NO SK

P07

8136 kHz, 02-11/05-11/09-11/12-11/16-11/19-11/23-11/26-11/30-11, 1500 UTC
8074 kHz, 02-11/05-11/09-11/12-11/16-11/19-11/23-11/26-11/30-11, 1510 UTC
7504 kHz, 02-11/05-11/09-11/12-11/16-11/19-11/23-11/26-11/30-11, 1520 UTC
6821 kHz, 02-11/05-11/09-11/12-11/16-11/19-11/23-11/26-11/30-11, 1530 UTC
5848 kHz, 02-11/05-11/09-11/12-11/16-11/19-11/23-11/26-11/30-11, 1540 UTC
5112 kHz, 02-11/05-11/09-11/12-11/16-11/19-11/23-11/26-11/30-11, 1550 UTC

Q26 - Chinese military

14805 kHz, 15-11, 1012 UTC

Chinese voice: 抄收 18 ? 18 再來一次 ? 18 ? ? (Copied 18, One more time for 18, 18 ??) [(?? is un audible)]

好的請發下 (Okay please send it) followed by a message in 4+4 QPSK 75/1000 LSB (Q26)

1234 1234 1234 1234 1234 1234 1234 1234 1234 1234
1234 1234 1234 1234 1234 1234 1234 1234 1234 1234
1234 1234 1234 1234 1234 1234 1234 1234 1234 1234

1234 1234 1234 1234 1234 1234 1234 1234 1234 1234
1234 1234 1234 1234 1234 1234 1234 1234 1234 1234
1234 1234 1234 1234 1234 1234 1234 1234 1234 1234
::\$
1234 1234 1234 1234 1234 1234 1234 1234 1234 1234
1234 1234 1234 1234 1234 1234 1234 1234 1234 1234
1234 1234 1234 1234 1234 1234 1234 1234 1234 1234
:0,

More operator chat after the message:

抄收怎樣 ? (How's the reception?)

還是 ... (It's still ...[unaudible])

重複對話 (They were talking at the same time, unreadable)

組別組別 (the groups)

好的 (okay)

組別開始 (group start)

6RCY 6RCY CUQ??? 聽到請回答 x6 (Answer if you hear me)

5569 kHz, 21-11, 1306 UTC. Test message

BRTCD ABCZ

YEX//

ABCD ABCD DE DCBA DCBA DCBA

ABCD ABCD DE DCBA DCBA DCBA

ABCD ABCD DE DCBA DCBA DCBA

XYXYXYXY

SK

4225//9392 kHz, 23-11, 2320 UTC, V26

4225//9392 kHz, 23-11, 2323 UTC, Q26

4225//9392 kHz, 23-11, 2329 UTC, M95

Callup in Chinese voice

BNEC BNEC BNEC DE VS24 VS24 F (message below)

V BNEC (X3) DE XS24 (X2) NR 1063 CK 141 35 1124 0707 83 = (repeat of Q26's message).

Note: this confirms XSV70 has changed XS24 and changed freqs).

BNEC BNEC BNEC DE VS24 VS24 F

BNEC BNEC BNEC DE VS24 VS24 F

BNEC BNEC BNEC DE VS24 VS24 F

BNEC BNEC BNEC DE VS24 VS24

HR MSG TO YR PSE NOTE CY

NR1063 CK141 35 1124 0707 --

008 203 024 324 314 004 773 353 411 445

938 447 486 338 758 482 382 938 384 005

773 353 938 354 372 411 445 938 448 469

486 758 483 382 938 385 006 773 351 246

353 411 445 938 447 468 486 338 758 482

382 938 384 008 773 351 246 353 418 938

415 445 938 447 468 486 338 758 482 382

938 384 009 773 351 246 353 403 938 415

445 938 448 469 486 382 938 385 010 773

351 246 353 403 446 938 447 486 338 483-1

382 938 383 011 773 357 403 445 466 938

447 486 382 938 383 012 773 353 403 446

938 447 468 486 382 938 384 013 773 353

372 403 446 938 447 486 758 483 382 938

383

MSG AGN

NR1063 CK141 35 1124 0707 --

008 203 024 324 314 004 773 353 411 445

938 447 486 338 758 482 382 938 384 005

773 353 938 354 372 411 445 938 448 469

486 758 483 382 938 385 006 773 351 246

353 411 445 938 447 468 486 338 758 482

382 938 384 008 773 351 246 353 418 938

415 445 938 447 468 486 338 758 482 382

938 384 009 773 351 246 353 403 938 415

445 938 448 469 486 382 938 385 010 773

351 246 353 403 446 938 447 486 338 483-1

382 938 383 011 773 357 403 445 466 938

447 486 382 938 383 012 773 353 403 446

938 447 468 486 382 938 384 013 773 353

372 403 446 938 447 486 758 483 382 938

383

ZNN SK

5257 kHz, 25-11, 1431 UTC

AGN

MSG NR9388 1804

5507 7687 1300 2658 8903 7998 5585 5590 5688 9993
9798 8938 0958 8885 8722 0087 8884 0214 4835 8885
7873 8858 8688 5388 5915 8900 9993 9338 8208 9993
5338 8408 8988 9435 2085

MSG NR2728 1754

5507 2115 3922 4148 8885 8550 6769 8885 5683 7722
8885 5983 1898 8885 5980 8861 8835 5590 5688 0815
9708 9908 2193 7601 8885 8415 5790 8920 9809 8580
5688 0265 9488 8578 7873 8850 5590 8188 5590 5538
3578 0699 9331 8601 7295 2581
ZNN SK

XPA1

13875/13375/10875 kHz, 05-11/07-11/12-11/14-11, 1310/130/1350 UTC

838 838 838 1 838 838 838 1 838 838 838 1
02441 00046 17717 43159 96982 63455 36245 06096 30484 44386
77155 59822 09013 19736 08265 20333 81435 96986 07134 60842
93396 03985 11786 30130 36932 02071 03607 80497 09389 86694
64007 69281 73589 50457 13257 80244 81552 96931 23823 03930
41156 21721 13416 42257 41858 89063 12763 29865 23626

13875/13375/10875 kHz, 19-11/21-11/26-11/28-11, 1310/130/1350 UTC

838 838 838 1 838 838 838 1 838 838 838 1
00606 00443 43450 35898 89734 25589 27315 44706 48103 86059
01525 54275 92004 83407 76823 06640 36270 20905 42142 23135
07771 60088 77952 60577 29538 38130 79962 99049 67578 52708
11029 08174 94899 19610 21876 38878 01469 72709 83554 40107
13773 72537 92170 11950 94490 01830 89073 63046 47251 72002
66313 30094 13338 14693 61017 32239 60462 61861 45157 60961
46846 23213 22651 58967 84126 53183 37233 48437 72931 18606
86810 58330 66771 61935 66868 44572 16434 82164 54910 50779
82939 38556 98383 67948 01546 35631 73961 89799 83736 76023
62353 02781 12617 13687 07131 99476 01353 20701 02909 30212
53274 14050 92952 42749 84720 90223 14335 43073 76733 29411
13673 92666 30851 98003 67079 99539 62925 15212 50614 13721
37497 91843 69462 67700 37107 47439 04150 11496 94844 71554
26997 81542 30155 23073 96115 94810 42927 65115 35564 65668
51312 95239 20914 02555 39440 01656 92069 21356 05962 83429
53981 91218 49832 39479 07222 26105 59386 73713 40997 11058
99690 87227 71972 79694 75942 44728 14209 22071 90661 68274
06320 73703 91722 39386 79408 46331 36146 64157 08480 90348
60597 78617 55517 33431 52915 02119 70728 99143 38453 57853
34358 80688 77076 69898 42677 75699 15616 65576 87867 08884
07766 87985 16819 91882 33379 95527 90528 71987 56278 83059
71938 39842 74739 21362 50241 46816 26303 74239 74699 01693
41848 39677 94306 55880 51390 65070 96683 24950 47905 12146
44166 58209 45140 02629 27902 56059 89865 40681 42039 17735
61591 20036 49767 84108 61960 89024 04737 13739 49019 57968
67733 92794 92527 21492 69462 17266 14326 88297 88177 12935
23959 52958 76547 28896 52040 74071 90437 08086 48567 41122
01601 59815 10084 23033 52748 13799 19583 13036 51641 48649
30295 07044 54189 49843 35873 78863 11884 71003 31492 90375
26082 06467 45504 63752 93553 84583 04295 63477 25778 43685
43345 95507 67113 40517 65364 25133 17478 35128 59550 40839
50812 25894 00630 56001 34495 29608 26398 95627 76596 17464
08148 10232 66019 12374 31254 02971 14695 90066 75996 49733
73370 03473 16313 14901 62863 25663 28428 06752 77467 71701

00135 45439 65029 73529 62284 37522 50398 16053 84217 87704
14349 35142 15096 15748 24620 55836 65223 02219 11932 43309
58922 47823 68475 70535 10913 69651 41616 44628 66346 57664
81029 38679 93918 93225 30106 89809 50097 40627 04745 11537
18812 59633 09927 79023 21116 21995 77958 89848 90860 45347
70604 97345 98152 00285 47725 65394 62492 94882 34402 27836
86030 18806 11601 21145 30937 14055 77333 65548 81454 47561
20458 86243 02874 32864 53043 93179 05340 20343 71345 62167
08658 47810 46511 09146 93749 14823 79919 26311 64010 53340
07444 37452 04369 93795 52112 81563 02081 67167 86223 52385
43181 97025 07421 95433 10077 52702

XPA2

8126/6826/5326 kHz, 1600/1620/1640 UTC

8126/6826/5326 kHz, 01-11, 1600/1620/1640 UTC

03809 00001 00000 41653

8126/6826/5326 kHz, 03-11/08-11, 1600/1620/1640 UTC

00884 00098 17260 24744 92471 60248 35614 74713 85953 18369
94973 46341 50976 11340 83192 10212 01351 88708 84328 89373
66329 17912 75227 11207 97387 81403 82912 00068 89061 64358
13439 46288 20327 70754 31368 28585 20950 34709 48707 71183
82495 13565 14307 75578 97366 55343 74283 00448 21117 32700
77224 38477 33287 66693 79162 89331 45649 97832 73471 16185
10474 10493 18450 43647 16555 30838 68962 39608 21776 76215
36912 50972 90623 82391 86600 08084 49092 02553 47760 20844
38428 88172 44350 73346 94410 48224 06891 03756 78383 83464
48859 36549 03130 97985 60489 68846 84671 71751 45317 65982
63607

8126/6826/5326 kHz, 10-11, 1600/1620/1640 UTC

02640 00001 00000 34256

8126/6826/5326 kHz, 15-11, 1600/1620/1640 UTC

09925 00001 00000 40263

8126/6826/5326 kHz, 17-11/22-11, 1600/1620/1640 UTC

08856 00155 77805 63558 99992 60997 89396 42074 05775 47124
25787 60510 24332 64329 12873 51229 01126 60762 60264 51196
86928 75880 45370 98597 58459 39092 92570 46360 86726 82653
56627 31933 81869 41061 89280 12342 99569 84282 10667 81032
66294 00299 23997 94327 82411 59836 55598 79414 39574 71573
07196 29818 26852 54225 72744 90123 59983 64895 04650 84413
34844 04748 44546 39643 75010 02902 29707 39769 16570 63095
64697 52093 38076 33208 81622 45090 35652 02824 93026 36822
17040 41952 07516 79934 74553 17388 81164 40618 45208 99137
15154 83606 02845 99532 97269 33657 55377 79651 31950 20676
60849 37584 79861 99460 21854 66152 44991 45245 12729 88983
08316 83082 40261 29422 86675 64711 54509 84406 38648 00962
54681 69596 05329 97880 32856 99742 87915 48936 82505 29997
92096 15774 73961 36500 23461 98899 51451 15003 93293 87680
11179 47977 85109 09468 61505 04480 32371 10379 79769 32118
58956 41183 89439 81050 76460 63470 39306 44336

8126/6826/5326 kHz, 24-11, 1600/1620/1640 UTC

03487 00001 00000 36663

8126/6826/5326 kHz, 29-11, 1600/1620/1640 UTC

06911 00001 00000 36257

11529/13429/13929 kHz, 0800/0820/0840 UTC

11529/13429/13929 kHz, 03-11/05-11/10-11/12-11, 0800/0820/0840 UTC

00869 00239 14651 11656 94298 01857 29787 84584 07664 90886
21664 37226 64051 19515 65076 30291 80562 75446 23289 19586
09191 73581 80795 83003 84836 54619 41287 56316 52745 23243
96195 91398 39122 07277 61917 79520 90433 85870 76262 19242
43944 18902 77114 94065 64101 98072 22001 76852 29983 14662
41995 56268 02415 01420 44995 67645 61554 03999 89965 65710
20359 84017 95202 47441 32549 11171 22795 14687 47407 53628
41459 45430 90339 51288 27054 32448 13192 27562 89396 63475
46699 42343 53511 32610 50194 75213 68846 67016 18043 30187
30095 89931 05755 76017 77118 79573 88213 19686 03173 42241
62522 05080 91185 20218 34774 46213 24873 64486 57695 80212
62790 87531 04447 21935 89828 88805 28612 06235 57763 14872
55450 08337 87369 16335 29969 52496 28981 07385 72681 28228
67953 35782 51641 05835 78886 17357 64439 60068 44699 89613
81497 60112 74659 29640 59232 74821 67192 35116 70300 32067
82960 73603 72056 49033 10184 32993 28892 95999 09533 11756
04561 43329 47674 92023 10033 75908 32886 82455 55158 93110
51448 20995 69055 58965 55606 52050 70617 03588 39163 20440
76195 17193 70759 81247 59442 92491 41042 32860 70827 75747
76563 63116 34872 38222 85390 25702 43159 39362 66972 99211
33651 80883 61882 03619 30323 52599 90832 78647 25293 60399
17988 62611 76979 77672 43261 48415 16001 94922 16544 18315
90377 19466 27254 33165 89966 99280 07611 87451 22428 94620
13338 43504 75353 44084 56020 09919 71744 10911 06367 11450
75835 07734

11529/13429/13929 kHz, 17-11/19-11/24-11/26-11, 0800/0820/0840 UTC

08630 00264 82868 27827 27066 56872 70035 08355 26462 13787
86906 05087 49132 76430 33204 88840 00660 08631 88808 00008
38608 30228 67550 24660 90293 70388 00028 07537 36367 80060
00240 57036 48755 15598 51157 96107 23891 45912 33283 88961
50676 02845 89016 08835 80838 03033 40004 55372 08178 78908
63830 92190 29408 97243 16610 06049 40781 70088 69176 65586
58960 28946 34642 83478 26550 58601 49203 53816 78232 30052
09264 57376 92754 84825 87468 20563 81070 55028 98830 45520
71918 16380 59444 95032 15833 53248 82109 64560 87507 46534
41485 46668 42903 00203 84873 46543 22488 66586 59503 62501
60780 92900 97182 39518 48557 50903 77048 08833 20475 37850
23587 06781 79987 55525 71950 36868 17090 42952 76050 04644
99517 22524 19669 56861 90582 38493 80674 72760 89460 31170
12136 61159 20087 77804 22760 67244 20709 31551 44490 46100
43065 33158 65920 16308 85087 30752 15738 01580 37383 18722
85887 67849 05685 60833 80648 39236 27315 57242 60803 04348
76157 54539 85327 79905 44558 20177 16262 70484 84672 08840
60118 50628 08256 70500 79180 63684 81531 33008 83200 20652
02864 81817 65446 09888 53121 82538 87560 12359 20194 98955
45771 82025 92246 44874 08070 09771 05724 42333 36878 05871
30056 48226 78940 67840 04804 59787 18310 27747 63261 75868
64989 95052 75638 54371 74760 03399 42275 32416 89918 93777
10454 24727 06284 86400 72684 94109 54258 69921 56245 72589
05704 80312 15919 52080 39526 70323 93828 36820 34886 97747
86174 77365 25352 88616 79030 82260 38753 04994 20345 04888
23586 66402 16382 32317 60352 84088 38953 83254 90032 16643
38042 11938 74416 12706 92989 33002 25014

10653/9353/8153 kHz, 1100/1120/1140 UTC

10653/9353/8153 kHz, 04-11/07-11, 1100/1120/1140 UTC

02138 00575 81979 72177 00503 69022 18551 31302 21535 22434
24354 42492 30771 07246 44411 51103 73488 99132 91517 43401

55543 14477 33021 61559 16449 96735 36498 75675 91502 05036
75516 58152 24972 31509 43442 71166 75128 56878 21744 23600
32384 90082 02845 86394 91423 83466 06860 72762 02427 51474
57799 21549 24877 40601 40577 99962 89534 80936 56818 99345
95131 32519 83274 43516 35858 25018 65887 87355 79196 49829
79569 38794 46775 91320 73545 98793 45248 38709 11097 68622
67477 19021 61654 69348 63858 75987 00007 24373 51544 90794
70777 01765 12290 13319 44377 07471 24172 53900 01364 83832
33848 99145 49495 74391 31496 81090 42871 44435 91308 44480
26426 05067 87094 74592 90561 73927 40770 27732 78051 56865
12567 76991 27809 13602 75165 73255 88719 06052 69896 68612
50667 25434 11651 30595 75174 07110 34814 83754 11659 68621
06877 74639 59765 68934 39109 83678 50455 06654 00902 59958
53222 40656 69395 20672 33653 03271 02801 41717 97524 87995
33747 10208 42564 29577 51206 91951 72137 84375 92799 04654
04529 59578 00517 22805 46705 37252 56433 20657 62914 28591
44488 59820 38421 27277 96861 61893 57796 19431 14848 81062
68490 65592 68001 33411 62822 03536 18167 69614 04284 82101
48051 81376 67422 11130 99760 56832 88998 93084 15901 48612
83154 98800 00869 97886 99995 90645 09032 05277 29885 66393
16181 72284 84390 38494 06957 80156 01565 01643 34374 77231
21442 23833 65829 85641 40563 13342 89399 94327 20742 70084
28722 39480 26781 13127 04700 20970 51277 74267 89951 52594
49236 18737 43208 83556 42300 66901 17267 43841 56324 04802
36049 10264 75424 59788 54577 52644 70347 62885 90958 83089
52633 81777 07896 20570 05858 86468 48190 43181 77668 70354
79450 15076 47936 43179 88854 81674 93555 61620 26201 61235
86281 00889 04573 89016 41364 50531 07658 93955 13532 88672
40389 70455 70312 17818 79282 37283 03232 57623 42315 48305
18415 19153 22879 54618 20453 35888 19142 07862 49194 07527
75726 96367 19696 67165 11894 15371 11699 50537 55943 65768
35580 40792 67852 16055 02439 61065 73300 15937 61082 79075
85684 99930 36421 77632 05695 24864 39496 21435 41656 16309
11765 94646 85519 70710 04642 67797 16897 96087 74352 18702
24243 17780 33234 20669 50342 42853 74701 67065 47949 31460
50453 70075 68880 59031 36525 23964 38303 67725 52284 12480
44148 23715 14819 13499 89160 16740 19564 15562 06910 67921
75553 84539 77180 19244 68515 03425 43931 56352 77464 05236
03281 76192 03861 07664 20681 06278 77776 75240 96020 11223
74416 30037 27612 03409 30281 52505 21730 44885 66825 65074
11238 41598 79877 25162 90962 36042 65318 12541 17314 49125
29105 12977 46472 02549 10813 41836 56074 19097 25068 52469
81190 71969 96173 78882 32707 09075 52456 45865 38725 62695
76382 93996 22285 42197 69942 71403 03155 49930 49177 16951
45943 65346 39111 34721 91421 11929 62097 10584 76398 97833
90302 50581 98291 92672 33249 29717 77516 04477 39257 23343
49543 58469 51207 60653 70787 33458 43993 05670 11793 71668
44975 15751 61699 70968 69386 57245 06440 27021 74750 62055
79148 44095 49598 72669 64665 80967 86045 52988 80008 78605
76574 12643 84760 90037 32215 19949 88370 04796 96981 01515
04532 00693 24574 56137 55963 37178 41628 12786 10513 25151
39493 25794 31085 62613 30207 96786 70783 38027 62114 25107
66499 06537 76713 21675 57605 34416 28535 98289 23595 62132
96857 48913 95631 24675 57671 23596 70642 51994 35678 95883
81187 26304 64791 58985 57669 59898 81370 61421 84398 51242
26418 78228 73136 95279 39792 35950 71012 23441

10653/9353/8153 kHz, 11-11/14-11, 1100/1120/1140 UTC

01375 00384 56996 61150 75405 44807 52096 07915 53724 12597
75854 04805 56713 37597 95820 87208 32141 12968 76281 45652
34593 26866 18878 28516 00050 87198 97309 69624 91963 06488
54838 45891 96176 75148 17824 85404 39754 14712 36610 55349
48703 17178 50048 89867 04277 57297 33375 33309 72503 46728

67865 64004 29701 26492 09085 86329 32721 37317 72838 33159
54930 84468 23385 29076 94723 08551 72850 39539 74495 69532
12042 83522 11294 06234 89238 40849 75274 42341 95039 57485
99199 44830 26030 03244 87264 27197 99422 07274 17208 30302
12551 80292 10196 44228 97065 24844 03866 28095 18430 04785
50355 70618 87450 84930 18404 49772 25677 15852 08708 71942
07338 47106 83967 68616 66388 81219 64382 28295 61554 89643
69526 27023 49825 47566 19295 68242 48904 18241 50074 58530
66142 98283 91209 66589 13362 52110 97233 06691 87793 32252
28927 03474 78312 56980 89438 30508 11079 14501 99068 02047
02858 31625 67615 23317 05000 78536 34525 84812 02216 55390
54481 16663 38529 71460 03703 49318 52181 04377 81261 40938
22864 74621 77584 23697 01213 75707 08111 44233 70859 82618
00850 29499 72794 98987 05242 93642 41706 27342 00803 82347
34548 81553 41622 86921 77764 93624 15477 11676 10682 53656
02256 39536 79513 93051 69152 01267 49891 57843 43086 95016
41889 23229 31572 56403 58831 41793 81542 53318 46316 64404
99197 89515 52669 46681 49490 89806 46100 96925 37769 94467
64796 74825 42115 26916 67912 75287 62251 09020 91828 14251
41084 67537 18912 74035 42244 78625 55194 27774 70491 71625
59989 21850 26103 86546 48647 35913 90813 58644 67854 55305
03557 50388 02196 73909 71895 15441 11529 78353 26488 88360
39511 20316 44332 77094 56317 26443 92743 12459 47989 00446
32925 64887 30358 67799 61844 49510 61043 11181 80413 04219
01247 19987 92628 80087 71748 63458 11862 58111 57302 99846
50962 74779 90307 79714 37433 15380 87929 04189 04867 71957
23878 04062 67723 51203 76517 74686 96928 76335 09011 55945
08001 89274 59308 83153 08739 14489 16062 21262 74419 03436
67149 71840 51849 24328 62357 24138 70940 13279 29282 81519
91124 81459 59093 83128 65027 75700 70348 61293 96815 76565
05193 21924 16042 54008 04516 33320 07991 56229 49262 56755
94184 56473 40774 17470 81144 48311 49494 69638 11042 84342
65800 25229 33225 05634 14297 55498 96387 79618 60014 68290
42495 67909 28177 01991 34828 65907 13303

10653/9353/8153 kHz, 18-11/21-11, 1100/1120/1140 UTC

03273 00579 92876 99135 44377 85015 86388 52965 90652 14903
59654 83523 76871 66031 64729 91944 92324 60901 96710 78893
40211 42823 86386 00521 65036 69079 38838 24149 06233 11958
53669 68180 67356 23067 60960 20260 54691 38490 68204 02058
32742 37861 72210 97274 66099 41290 03511 49886 00599 27079
72401 12840 33306 15360 69209 99488 61444 87428 02529 11784
51761 89523 81770 00619 80951 63681 86622 40319 79023 51760
45345 74060 59838 50276 86162 61753 92105 92352 78422 23957
99071 17545 40965 53742 46122 90415 52603 65158 04413 79459
40975 06635 13022 70361 60292 89080 90772 97932 45711 22670
39720 43447 19752 02093 46224 39710 04039 37941 41825 75108
18795 83643 97313 38038 34434 31452 69653 40891 38859 30424
89263 54493 55760 12373 95975 61309 11646 95158 68608 84800
89638 35536 19947 84623 42029 84498 27411 59969 34927 28274
72389 86288 42801 07433 89514 40479 54838 00001 02164 51574
60101 73768 33888 00780 31580 10019 39324 09739 61346 72769
14239 15121 45934 10167 54275 94385 85600 47776 11509 35011
11629 34551 76776 08768 36676 81842 18699 51201 00912 34430
72954 94897 01906 60432 66929 99886 38643 01565 31548 36800
16484 75533 56241 64843 97404 57841 33851 69048 34810 24664
95960 62192 01537 79768 32980 17474 50109 00398 95166 65000
35201 21122 14416 72810 68458 15515 65615 20868 96587 91358
61541 73540 31509 43456 90241 51112 31086 74443 66730 51485
19129 28605 45228 73526 96266 92823 41401 19221 99701 62750
49637 87016 10537 18431 42308 85306 16802 15909 34801 23532
88487 48347 81904 20797 56991 66900 53494 33094 04885 10922
30307 58358 13197 10976 39932 11817 70592 24011 87248 51144

17586 09280 03568 38373 51600 36297 46959 90788 91095 88874
67230 11038 97904 08489 33443 36897 19036 29392 04259 16665
82553 93302 08275 52172 79775 77238 64124 43381 44894 53044
42690 15214 88049 47532 79021 63736 30063 26290 58493 75629
18661 30071 61792 09374 08814 92345 40347 08593 81766 51629
79081 30474 20972 47554 41012 43595 95189 29483 90359 15225
46000 46191 03224 36372 52490 41318 39109 69594 31519 78008
27664 99317 07152 34803 87106 25801 95865 95829 85838 03770
27430 17608 38626 81867 93008 54759 88428 22842 45105 40607
98737 30586 30778 99184 32258 62940 82737 17678 38178 60814
83945 36678 91790 83991 81044 52189 90805 47739 45152 43433
74904 89918 39436 80577 78388 78030 02287 49831 80998 80649
40285 80332 77978 74142 30818 90803 72131 36356 38971 93650
56330 36886 42495 12875 90013 25359 57939 32847 49576 34363
44435 33893 71462 30300 94412 75042 80048 82393 58026 16070
30879 35952 44623 35510 44826 29536 76309 57360 07066 57444
03964 59878 92850 63411 25095 02759 61289 86647 94638 37627
06071 81952 98554 87590 92086 26154 68285 62606 61389 76066
77404 44215 59952 90512 45873 65527 23015 35513 24319 22188
15394 53886 97762 46343 23468 02779 47040 62600 79175 78976
58720 60349 85979 26960 98113 40762 00781 40355 00993 02117
13820 50080 01197 57207 09816 90189 82853 37570 49860 99723
60415 16273 66812 12793 37496 17368 28214 22071 45244 95244
51580 03956 96925 95135 13270 73140 22842 81658 23471 62749
73813 96285 46397 82215 36795 97824 33683 40559 61565 26412
82226 73215 97241 12345 97790 98852 32245 01128 11153 39583
29935 76574 74063 92598 01444 99528 20333 34892 11367 73330
13550 68272 34771 55002 84355 08215 82625 29849 70007 99429
60395 92740 91482 36329 44762 31502 61676 37388 15320 58439
05324 22521 33310 40802 38203 79063 89517 66740 47567 61368
46348 44990 79192 70870 12423 25060 36343 87727 08389 88134
23712 06124

10653/9353/8153 kHz, 25-11, 1100/1120/1140 UTC

06772 00001 00000 10140

10653/9353/8153 kHz, 28-11, 1100/1120/1140 UTC

08204 00001 00000 10140

19354/18551/17452 kHz, 0910/0930/0950 UTC

19354/18551/17452 kHz, 03-11, 0910/0930/0950 UTC

02752 00001 00000 35657

19354/18551/17452 kHz, 05-11, 0910/0930/0950 UTC

03845 00000 00000 40156

19354/18551/17452 kHz, 12-11, 0910/0930/0950 UTC

02015 00568 80299 81901 62629 60942 09344 43258 86093 20843
09961 94342 35615 27278 55202 14365 24565 64362 59271 33606
72752 02689 00897 27178 65136 06141 81061 49146 44763 95186
84938 72261 35907 15349 48373 08624 07064 18672 06733 64990
95129 84143 11152 39517 46775 18777 77396 20290 16396 29547
20410 03034 79654 68063 77052 05618 72578 32815 89836 62651
50272 56741 06531 78099 67818 66926 40858 45261 89778 98553
80272 36626 07983 99981 03734 79356 51825 12223 77588 80025
50561 79608 15891 83406 13272 61470 27137 11381 45453 05459
62843 09773 30363 41778 82309 56202 60019 25579 65393 22457
19568 53099 60166 53384 88880 09405 93480 28679 82889 46383
09485 88877 91175 59005 55936 38098 72666 04854 51313 96116
82124 09170 32273 59327 16066 66666 34304 40085 01155 13203
62557 53483 48033 71180 07779 06810 41848 41139 34662 11770
76006 95077 86646 07377 98587 14463 95570 79617 23592 75861

99478 37144 88401 09078 50355 50114 82510 14936 69619 33655
28555 88806 25443 93620 56097 91637 43076 63223 82300 50813
17707 07307 87700 71552 59183 22680 57429 31973 92993 13855
47554 55033 96375 82706 75177 95220 81344 81485 58112 44027
04119 42981 42310 23339 65520 60643 43855 93840 64462 85094
08637 28622 84363 19644 24284 47258 85592 75633 19911 90393
88905 93491 85653 49411 83206 36882 69601 46965 88550 68799
47556 50384 66093 85761 28840 08164 29343 11495 51492 48422
98934 80422 25607 85984 38020 75592 18838 23980 97599 41429
06550 81803 66564 89074 58473 40394 80723 69964 47020 63526
85404 22346 46450 48444 36564 95331 01579 21437 91900 59747
57022 98071 41419 24274 54712 55852 73538 76297 87890 17412
76669 95158 80934 84616 86796 24882 76713 32397 46232 38191
50595 36886 17812 81011 81825 38223 71204 55743 58145 05432
95800 70228 88841 54979 50514 23586 42283 35347 25120 80144
45992 22347 32981 73305 82806 13880 45262 79353 57470 33216
34474 83259 97021 68366 55802 21057 08908 65205 45796 85290
08928 09915 96067 55076 45271 13918 24562 24412 01999 63816
41110 70491 76774 50069 15352 40238 46477 29309 83096 82152
78324 91509 94188 28141 95154 26252 63269 34470 31635 43900
53427 75688 85105 30974 83240 84151 67869 29172 89798 24222
64150 30183 78885 39686 46821 21050 52285 76902 53200 98298
08192 69700 71815 46765 88534 48987 23250 48716 33939 66474
34007 11730 61590 99367 88515 14370 09406 38888 73606 14510
55914 85601 18973 53565 19998 89406 24036 47784 61924 28462
78586 05950 41473 22152 80942 90825 50979 52458 12826 66162
87653 53929 26623 56929 83136 54204 23414 01216 00065 19102
84655 84782 32653 11806 56413 83054 91873 98399 01477 31011
87676 26090 76937 29607 21909 49615 29521 98268 53823 38379
60361 77932 48093 85863 07228 46552 97137 46719 94972 95890
71402 68029 48768 23651 35624 70330 96902 24123 86197 46315
87095 66464 15253 35914 96808 10733 50753 85422 24439 54369
39436 39568 89843 43273 07730 75972 02944 51767 40973 38134
99051 48535 24181 41487 63422 68911 70097 87393 55174 58039
17923 48833 78862 71726 78148 48125 88863 61853 66969 43860
58548 27743 24231 73605 36337 50708 86260 41046 17164 53427
89462 75352 51303 11619 92474 07674 01241 72678 42585 06738
26790 57038 72710 51352 32986 21787 33576 80733 32588 83940
08825 90424 07339 15665 46550 70099 16934 97422 38395 06198
64183 56542 13874 45737 71615 71038 10453 61746 35689 11997
09424 98817 53268 43576 33309 86911 02421 84877 67711 86147
64716 78339 69560 79553 93848 09803 86809 37075 18694 08126
62250

19354/18551/17452 kHz, 17-11/19-11, 0910/0930/0950 UTC

00685 00300 79262 74692 60750 75882 31107 03339 20078 53632
88830 30284 04077 28460 64293 84680 11944 69437 23026 42586
40254 38336 60038 88640 87400 10464 76955 15414 51900 70520
90741 68777 39036 78849 52570 63004 30415 87138 04156 15971
94978 16983 08220 55964 51129 51653 51553 92687 25702 84183
12254 00686 26284 60018 91665 74223 10292 02763 57530 02297
87502 39932 94681 35254 60208 79176 99852 74459 35729 22526
65580 75869 05628 23584 05806 17375 87364 26629 72007 56796
92533 48865 78007 24515 85978 57043 41327 44533 85043 88623
93701 20388 68687 18066 77926 69029 56959 67661 23203 03125
29163 41350 64220 97775 56143 70489 27119 24865 24716 71836
71417 50369 81559 44776 33499 76852 31101 20237 93735 23530
84978 85270 57424 33290 04064 83148 23960 25571 49315 78809
44805 80654 20122 77811 00414 99233 47765 68066 45538 15035
39480 81641 42301 38307 33425 58967 35763 41868 11976 50742
04152 26713 95546 93329 45444 37167 31867 00058 33073 25839
83658 35737 88827 23709 28961 36806 26516 81206 93841 24903
34478 62654 74865 19720 41069 14961 80557 13243 28051 92282

59597 32018 02848 56316 23585 90783 06525 65136 98383 99651
31049 09988 86820 30965 80223 88568 94108 75554 19051 06313
68046 50253 71509 48950 71966 40853 37297 68667 90893 34668
47184 14176 24011 12336 32804 51568 74032 96687 50462 38471
88283 63650 54574 03512 15765 10647 79142 05972 14611 37307
97346 78978 00205 96618 02339 29916 24315 32354 10452 16808
15778 72089 90806 22365 62944 07779 05634 52598 22903 46337
61810 26704 21443 16979 27097 05505 90795 75454 71326 13496
88195 65634 12954 59735 56850 46563 49232 44799 20372 62759
45421 67163 93692 37753 00727 82443 95622 59579 77797 17646
93719 21542 65320 25288 54720 11266 75912 80675 23614 33343
85334 96747 88117 21514 21382 30905 70262 99540 34001 83814
32735 21144 95311 65321 98288 83613 82061 66887 77179 03562
55987 54854 69013 01907 93567 75803 21542 37178 05894 39916
73379 98811 14523 35314 04677 64269 64994 78299 26036 90871
84147 60583 78247 72257 57444 67967 46320 82227 97477 45498
76175 33569 00654 32449 41146 19288 54290 42470 39062 36981
13254 48852 62469 68202 62528 99257 01361 64715 22071 91240
69545 92785 07239 92236 99783 45963 79762 69515 74908 03018
62201 80845 03613 50167 02212 77873 23857 83012 11949 02333
04707 51814 97331 99842 39806 66810 29414 65749 36152 76039
66883 01960 64178 39102 66407 33450 29706 6177 44072 2437
90358 23917 36000

19354/18551/17452 kHz, 24-11/26-11, 0910/0930/0950 UTC

00925 00081 53794 73003 93622 95948 77965 18508 48893 88631
49266 55885 89730 78730 22983 76638 65905 07742 82504 91511
23651 52266 81366 12073 82423 08005 29556 04611 10027 14491
11325 13074 74585 33601 39631 40658 86266 00012 80688 00587
73689 37389 70188 89074 48126 23612 88033 84044 58499 16379
44242 49110 79571 15739 17530 70177 10082 20883 70302 59694
53176 22730 14369 91638 42228 61337 59982 41150 99841 25591
03761 46464 06612 94755 22004 11233 32614 71477 60142 36937
27886 66381 82115 51207

13393/12193/11093 kHz, 1100/1120/1140 UTC

13393/12193/11093 kHz, 05-11/06-11, 1100/1120/1140 UTC

08401 00334 40845 21613 96883 35575 94636 44652 20923 67799
43658 36432 11367 24222 23917 31054 50279 78701 01564 32587
55427 66520 26718 75245 33480 90469 65383 27943 78343 03224
44599 56337 87618 46183 96981 79212 82010 48210 13470 51197
82772 39873 26116 04582 82613 10944 27527 12328 64863 01098
12562 71928 71366 97515 91747 79499 88144 40464 41205 06827
08111 91594 32202 24705 52741 83375 83714 14016 71825 53686
34005 76346 30249 62976 64056 16613 24400 99550 51582 04721
68902 88751 50906 80399 10167 07818 08956 58398 85155 84905
30705 25815 17123 21759 82623 30311 47051 50923 39478 67342
51204 28933 49360 39410 73654 36746 59115 89165 23033 28827
81259 32916 57849 95444 36558 68954 22237 64733 54287 05408
14835 95831 03472 92518 63569 68058 19321 14039 51882 11368
38280 37313 75822 69768 36681 36607 24311 24567 90994 07203
80671 46979 69798 04843 45758 42513 68547 29546 91750 88782
43222 31023 32067 97498 56537 73881 79378 51387 09651 27666
99804 45221 88230 21571 85353 63563 50473 14358 36540 92361
51760 99548 22376 56252 79203 48930 51115 03795 97799 52988
69144 43413 94937 33466 05803 60151 91968 38567 33994 71787
93114 59124 58304 23401 95268 13791 10897 28978 85386 18353
51396 75368 37012 04197 65773 09038 45462 76799 59720 77917
73261 29481 71947 22008 30947 74393 20223 97416 48350 08058
63517 83176 38065 06638 33987 93684 24542 66358 39686 44960
58736 35414 56967 68849 58269 31112 98884 12702 50781 14319
48015 80368 62773 05782 03925 61670 23635 27802 67669 53483

43557 70826 77343 57082 83541 37426 38505 57243 50916 39060
87300 97723 83234 30235 56638 09633 76885 07304 43778 90406
06448 18915 50931 36386 86516 60237 57691 06308 52848 51339
57463 81301 15508 28755 21587 13695 77575 62779 36424 19455
12113 26942 75543 33649 87264 84190 85405 07131 17843 84643
39302 93355 59343 11832 85217 97671 97059 09836 22879 51254
03765 64422 81946 35150 51010 67188 68464 29653 77542 10577
23753 80889 46619 21138 71574 89038 03928 48900 49887 51980
01656 93254 07173 47016 45043 76755 46300

13393/12193/11093 kHz, 12-11/13-11, 1100/1120/1140 UTC

02581 00336 56132 11345 74176 87038 17662 38690 41273 25897
07334 16980 13852 27199 12770 54303 63166 22654 99594 58136
81189 03598 66487 18389 72610 95267 36099 86917 82671 86540
09095 21974 74612 15278 15119 33556 46404 17231 43452 67136
00493 03409 95826 42578 36163 94322 51678 22271 52455 87526
40468 27991 07312 02410 60386 46183 05959 79564 90180 54306
55391 75290 64076 09875 44323 96563 88983 72203 48557 59371
36561 31370 39856 93385 77404 61848 87318 09481 62509 97325
21177 47611 82862 99318 66574 03064 40067 96740 01068 76952
50519 26365 64835 56578 96179 15787 22209 37251 17841 26625
55908 91084 65810 27525 01340 39913 02938 56499 53844 14665
46860 08754 63004 85921 50405 88834 06074 51620 92597 40393
37717 77059 80955 86602 51031 36344 19594 09244 71114 55170
92607 26971 15165 73186 38930 46865 96120 31926 63083 44208
49630 70687 56279 26996 13344 63396 08801 09342 30688 43309
06628 13721 70583 04080 38062 71495 99598 78892 52299 13184
49759 44606 65859 30400 28245 70407 36332 85535 00730 75892
86759 19806 93033 27900 77193 04759 45509 58939 56834 69707
03636 32000 34852 79085 22903 78346 87740 67796 84878 61895
37503 96446 71902 85133 46744 83845 66544 76132 65921 57541
68414 48367 16222 80108 44408 60246 15868 87718 31797 64604
46297 60805 69828 79314 98842 88122 98842 86374 11870 52669
56015 89189 62052 56071 67920 97269 91105 20207 21687 89561
39810 25800 75684 73597 09118 00661 83807 16368 32564 30190
65707 76608 73955 01881 56966 23867 00694 83924 55887 01164
17149 31525 40117 92771 13511 11077 02074 46587 50986 61634
97023 03162 54191 86950 92043 73292 57537 19818 67803 17278
95009 17444 34933 54331 61152 15206 01629 81634 51514 22302
49684 32802 18441 50487 44172 90624 04493 21108 27704 04450
90580 00098 73549 09427 63559 23386 00985 28185 69998 50512
50946 70891 48171 98426 97165 10123 24620 25563 55949 22658
13396 12003 62500 81367 40933 46463 49788 09308 89378 67608
89667 75503 57224 01388 71386 37567 29876 94470 66984 21569
74801 92147 45056 09236 26424 36526 24606 80221 54302

13393/12193/11093 kHz, 19-11, 1100/1120/1140 UTC

06749 00001 00000 41262

13393/12193/11093 kHz, 20-11, 1100/1120/1140 UTC

08901 00001 00000 36260

13393/12193/11093 kHz, 26-11, 1100/1120/1140 UTC

07361 00001 00000 33265

13393/12193/11093 kHz, 27-11, 1100/1120/1140 UTC

06581 00001 00000 3426

13968/15968/17468 kHz, 1200/1220/1240 UTC

13968/15968/17468 kHz, 05-11/07-11, 1200/1220/1240 UTC

00840 00176 53825 72830 40695 73000 88100 48022 23095 43204
97090 67586 20072 87878 88885 81068 00073 00033 84687 80404

53495 83134 19080 08608 64667 22580 30685 60306 82875 07200
84335 05788 70285 08068 38106 65861 23066 00528 35520 38204
35399 84160 38308 85265 42500 15308 73829 03828 33320 96323
36750 66080 20263 43082 88118 78714 35553 80333 87000 00880
08507 46539 12880 13047 95212 46258 82825 93160 22730 43432
09857 89259 41268 18230 41053 65208 81206 56551 81907 01215
46813 27532 31550 63263 22513 28330 24583 48020 07080 86477
67436 32807 87976 90770 33008 00329 47037 86385 32266 51200
84076 65906 00887 35080 25850 78287 38234 98626 07678 78975
96029 35112 42752 45616 83609 69831 76222 94392 44861 11529
54425 60783 85059 99997 75894 33894 45653 02627 55468 65381
81560 41500 36805 60778 87088 70539 27352 71920 19794 42186
05558 27338 01866 56356 02396 02162 49107 08385 88188 00087
45525 53048 08327 20068 00586 75087 68724 65200 01205 07304
30010 08620 80860 23007 55014 90227 25144 88305 03583 43257
80838 33880 36308 63520 20688 76786 08802 53348 50535

13968/15968/17468 kHz, 12-11/14-11, 1200/1220/1240 UTC

00443 00346 46524 44695 61402 92091 89104 03669 73758 98611
10951 85416 77569 78735 73481 32690 11961 35941 12256 11414
72047 37480 39289 43486 24966 14501 85203 37947 42525 63645
21708 06067 74803 74113 61433 69909 70514 30133 34905 89563
62197 42738 92024 20459 45983 58280 03889 00828 30621 56190
04366 57880 97343 10826 05823 63615 95865 56923 07265 79148
12131 24170 38488 14761 08157 21757 44720 22064 17179 15959
13953 98206 59662 87508 09478 98419 03706 46431 58716 33842
32551 72511 27183 29632 31701 89322 62040 65503 54986 87833
21311 45953 74108 44240 08943 63702 40600 76728 62372 62039
98171 22846 34434 45751 83677 31075 44664 12995 21259 36953
84720 58710 31763 06269 83160 21477 32212 29579 15100 54057
43365 93424 39077 29113 93424 49599 34636 62600 57563 53195
45504 57323 13280 80437 88191 92548 69090 52700 99152 76282
81494 06739 38486 32394 93847 37282 14036 73979 15929 60444
73414 44548 13350 24864 35021 99929 60057 38518 27163 08515
21702 33352 32134 48816 18944 59883 41742 77825 65278 70440
49617 35885 95159 14393 47107 65455 26774 24333 62399 13820
31401 05334 15762 49520 04114 50772 01047 34334 46244 10238
33367 26590 79358 33104 93985 93990 11556 06725 21831 08013
61270 15049 06978 49877 30419 79909 88269 47748 87164 27476
04658 66778 73458 81266 01910 97125 82877 63591 11847 67680
07297 18018 93706 33593 85399 17903 98842 39066 51112 43086
34707 85058 49750 97839 09319 93973 21407 89718 05086 30230
78929 35867 61205 19636 76106 35668 76157 27399 47101 84967
25657 22281 41644 03843 99816 19835 79858 41875 26774 89791
68008 98622 73886 62610 27865 39208 04464 53450 65662 70612
28213 82678 40428 44448 89277 23702 69246 68883 58352 42712
83239 50928 48290 39446 53260 97681 99528 54834 43224 42407
97739 84511 12821 16312 60958 99219 22647 37343 47213 79380
73253 38354 92752 57874 28750 11228 98233 47988 78377 77027
81643 91895 66345 56541 85884 30039 62902 09105 72210 89056
66847 93498 27514 54709 58160 79465 33249 75587 95238 93365
84549 99570 38564 53964 42489 32781 82724 93499 40821 64736
46610 73035 21491 69207 19977 21530 11987 24184 33050

13968/15968/17468 kHz, 19-11/21-11, 1200/1220/1240 UTC

00198 00265 12550 20073 72029 99976 63495 90897 04429 36003
27369 95858 68824 51729 89042 76507 33371 97711 05558 87548
76165 80316 36160 90647 35450 48524 61653 63152 50900 62245
95246 00427 73537 43727 03869 14262 42858 31054 54134 62158
27197 06001 19919 49853 92619 62280 08848 98284 72858 06819
09311 19682 53222 14749 70564 39284 84257 47412 28223 91590
45748 86676 33004 09456 51235 11220 16470 09489 98806 07856
76846 02639 16104 31480 27362 39865 36607 35916 00748 21182

66868 64704 63059 16927 83352 04012 92527 42644 26290 98481
56970 21743 40142 77703 66543 88786 26502 13735 97795 58906
44712 78066 97282 17690 23665 12184 64737 87144 11597 42442
24119 21731 67784 30464 62259 15929 76727 34420 36128 69591
82327 51145 21822 12569 91875 77543 34069 62071 65906 89794
77500 62720 14752 90559 81554 14531 98289 65691 79161 62263
20161 29190 90507 69193 88732 60651 43340 32705 19990 20075
09128 67093 08264 42297 90452 48633 02502 61810 63461 35135
95986 77488 06320 90314 53374 17670 59349 35754 79013 96710
70377 53962 74421 63846 98849 32834 52945 63030 23779 53772
43868 55021 63900 08185 53798 76457 05175 46141 72299 99684
66907 26664 28416 65041 70999 09862 99224 82634 46643 61357
96624 03936 80809 95338 57635 77418 49148 39342 65636 60012
16365 28321 59296 11215 84154 07554 88372 28191 83599 64975
31980 12400 18981 85199 22936 86024 30923 82310 00227 82604
57340 29432 45202 10456 91344 52803 78598 59749 13718 82843
19403 00811 01439 55361 78493 79951 14150 82016 28894 21970
47552 00645 54962 73535 29882 15114 29671 47655 43724 05202
21090 71194 75488 59499 09387 54104 26332 15000

13968/15968/17468 kHz, 26-11, 1200/1220/1240 UTC

01085 00001 00000 33661

13968/15968/17468 kHz, 28-11, 1200/1220/1240 UTC

05144 00001 00000 33661

19456/18371/17421 kHz, 0900/0920/0940 UTC

19456/18371/17421 kHz, 01-11, 0900/0920/0940 UTC

04546 00001 00000 36251

19456/18371/17421 kHz, 06-11/08-11, 0900/0920/0940 UTC

00345 00350 32654 80086 18961 28215 39802 80524 60627 44200
25002 58442 44042 92646 28042 80249 82332 35808 85659 30483
54858 00245 41329 92245 90861 11380 67798 80483 02038 19285
43705 80738 63633 00435 18060 48403 22077 42283 36038 16187
11230 82294 08575 15900 85082 53220 84376 70514 35776 23590
08307 55563 32305 72707 09754 87831 17514 34365 20732 23080
86044 62706 20052 37829 23289 90997 00026 73853 08064 00140
18517 21220 05084 50067 57606 35163 62574 63333 65166 89487
17978 32117 08756 00405 07868 23050 78008 78303 48556 23824
22006 36353 30267 32300 88830 23131 08758 10424 46038 30830
60083 50327 86777 63603 78973 46638 77360 28603 88800 05860
70600 06306 06638 50620 52680 86083 00305 68336 63280 23730
03232 73035 28505 08060 06302 68632 28384 46108 06326 78088
36353 03108 43863 07668 50236 66436 02328 63603 68820 08656
20639 85878 37233 80333 88336 80643 00361 66443 35683 16381
41034 71186 76708 65025 76880 85851 68883 26511 54208 63673
81336 83333 43633 88864 88808 83063 21204 42288 10113 78333
71648 76668 05659 11803 74618 04245 82331 56377 61028 62565
43381 66383 73406 83683 16571 36641 67711 68403 10343 37476
68803 66000 03856 82668 38108 88408 08108 60008 33340 64603
60063 30043 88133 26831 74086 63664 65366 10533 26561 44665
44330 36224 11442 84006 21886 86886 43016 10167 81636 86212
84663 33054 06802 60080 10336 34304 77801 05716 76018 58733
81867 33661 15804 71220 66641 30387 66062 54026 01788 64467
76556 68442 18482 64844 88122 13478 76802 48236 77673 22023
72288 25360 04212 11553 20513 31888 79054 25015 54108 40800
44163 71217 28848 34032 24245 77706 11108 36770 24114 70333
78487 79767 22621 44132 70506 08506 65105 11116 30160 66638
88662 64633 27026 63522 30544 20685 41288 24662 33508 11701
57736 48821 02115 46028 03664 33888 12418 00528 66447 56687
68043 48336 27731 46847 06255 06752 72280 18211 40001 63634

18677 80633 84103 83225 42883 44520 01842 30631 01367 80180
07671 17605 87404 01417 47753 35671 42144 60328 08473 00214
04923 09298 66668 46074 33522 67740 25113 17747 17050 72160
61683 07948 62364 68005 37781 01308 31805 57608 01154 63671
04843 26133 64312

19456/18371/17421 kHz, 13-11/15-11, 0900/0920/0940 UTC

15-11, 0900 UTC: Off during the start sequence

00881 00300 13945 44248 58665 18331 89256 95361 19667 48337
78524 44085 68475 10391 68575 75463 05246 75370 16973 42779
74261 34433 17237 85471 76887 16424 52255 11222 74287 40797
68544 67768 84405 94805 29955 98530 44581 22019 45650 45299
58434 64480 87845 36400 42051 76736 37943 01073 17864 19196
95501 69999 62381 32650 69321 33763 22203 25329 92241 10291
37732 63972 96122 38525 73373 93125 52934 57126 69317 94267
71579 68880 64779 73219 99882 31504 73733 32500 12333 92121
55172 49270 40015 86560 93355 19213 02256 50936 48486 72078
89875 52458 16168 50355 48036 96888 67171 27593 29264 52445
11634 15382 17982 81527 44994 33805 71447 41471 36694 19719
21406 69733 05911 43017 39567 50269 99219 13305 93917 12709
78593 02303 57778 40228 96478 99846 39310 21454 38727 84633
12574 72907 22109 42508 35599 68395 55429 26289 45211 89141
42374 02377 44409 54899 35181 74725 79535 47584 82259 32988
52214 15819 78920 56739 23982 62003 13788 27872 12294 35726
84484 01864 12533 74422 26366 46835 59984 70800 29003 31809
39221 56562 05140 63932 19985 58785 34130 76902 09525 75322
20264 12645 79833 20480 59000 96622 86625 01963 79264 17270
78103 47951 89788 75384 94142 09649 30538 71275 31160 36095
56561 98606 05921 88187 89215 88713 07764 72320 06124 67054
64172 57086 52085 58769 29278 59082 01253 60708 64543 01789
57631 45185 33321 31841 41727 61821 00141 30759 14740 87065
16827 43471 24163 40710 28179 76424 32652 72349 97023 31548
83073 78523 65488 25505 01898 15931 02867 94338 77926 88124
65328 56374 15932 28456 94709 31613 40159 86587 10644 31977
08219 73542 68889 78806 26368 78082 63754 41238 05878 79400
11744 56476 71858 61392 13341 28585 38550 85307 64581 28631
58090 03423 83467 68849 86623 07508 65271 28808 04682 93866
83277 82603 52279 71116

19456/18371/17421 kHz, 20-11, 0900/0920/0940 UTC

02274 00000 00000 346601

19456/18371/17421 kHz, 22-11, 0900/0920/0940 UTC

05883 00001 00000 36664

19456/18371/17421 kHz, 27-11/29-11, 0900/0920/0940 UTC

00886 00602 74064 21269 41423 60054 41412 47227 75387 28012
40892 27815 07688 49736 64921 35526 30522 42645 83222 83620
91506 55444 16872 14859 29035 99001 49584 42483 88731 06541
18741 71814 97470 85852 70907 49383 14850 31800 19998 59328
92754 53854 46591 06297 11438 13872 35302 47156 52152 08108
55015 78149 93396 43814 50592 95464 68817 02788 66968 88433
75338 18405 72057 54118 13452 82166 14867 05810 25155 80782
46750 94809 94173 49185 88199 71967 97743 26588 03941 83410
22097 95075 77882 28938 73854 16739 17689 45820 00276 63813
24443 84325 04047 22012 17049 50765 48221 40835 93601 25063
51850 69017 58188 69277 11945 69147 19062 26935 86816 12652
29565 39734 27607 25359 19223 10053 71398 56707 45273 78248
14545 63037 72321 75257 31814 96435 64189 44421 75514 95212
52628 00469 65370 97075 23989 81106 46693 81936 90556 31894
01773 08929 90504 79531 42502 85034 36240 89972 94437 16179
05025 90933 54029 73063 57458 10479 96860 03108 54297 40628
20811 79282 96986 54852 17191 56154 67206 18736 82748 40691

25049 04368 55745 75052 11920 80035 13092 74736 86586 97105
37099 92256 98768 17119 08980 70756 14536 92661 94792 84937
41726 74111 96336 96161 94221 21705 41834 24759 70064 61640
54418 89507 59600 10375 94783 74674 86174 86481 40877 07656
22296 12549 59133 20983 12780 98379 58029 40187 37891 63080
78584 58621 52009 56268 19850 01039 78713 17851 30993 10299
03108 47999 71584 74682 06318 82092 98655 36390 14415 49157
84352 16516 34327 66107 54126 13311 89153 83348 84427 85468
90897 59323 11247 34812 57860 13687 91767 30415 13853 64205
93976 91934 32195 81200 25124 97007 66412 54026 25545 73988
06335 96500 42139 50139 09450 09312 71532 11990 39193 61975
98219 62231 02329 43971 53332 11290 42857 76539 70640 89963
70660 03781 83743 85740 23035 02193 98065 54345 86748 93033
43748 62884 34131 60769 33429 54882 91650 96499 39937 47587
66590 80222 06621 31358 48828 47962 65548 43376 53392 08107
50670 00678 20633 07309 58304 64378 48578 67322 46637 86384
39915 41612 88811 42629 39194 04418 07292 91750 06143 18683
39038 64417 77486 92797 27780 21691 98277 15830 39689 75957
23764 23756 92519 03993 83987 17394 40401 46769 82628 51922
14507 17899 45026 23258 12670 97069 64632 29986 72006 99494
72740 25130 55577 51297 96801 49717 08992 58127 68240 94140
94103 61975 56577 48593 38605 90437 80451 84079 83441 80548
21129 33324 21473 86891 43028 70190 42072 80295 42220 50449
76306 70895 61281 38000 79325 23819 69979 37971 69220 43350
50240 75234 72051 44503 43432 22687 74567 46758 56933 57044
10071 12112 95338 23425 05598 23989 74592 49449 53654 82178
32153 52030 69365 23348 16304 93671 78409 10424 80253 63883
29193 94694 54244 28254 15255 71726 62821 21796 26553 19131
51647 12605 53452 19996 39705 18211 11230 84151 86295 55409
17077 42854 58607 52066 90833 11205 34760 90136 71291 30606
46837 37602 73915 53090 32066 74879 71687 92693 05847 99788
01378 39492 75185 98090 75351 42353 57624 56294 55989 07094
76563 68122 85100 89446 26010 43072 53087 34541 10755 12254
22281 05237 54955 94306 79074 59911 03499 51444 51763 79298
17129 39646 73223 18440 74962 22775 06400 80510 12031 16155
03873 57045 93742 49373 06960 46361 76523 19389 19720 98720
48075 58070 37978 95376 57782 96240 39731 27884 39515 71244
53251 47115 76537 77027 27607 65506 93450 18159 24771 24188
24853 17260 44688 84214 70704 51422 50082 93691 47205 37865
78987 80223 13434 26582 32631 81562 55583 58771 69475 72157
58168 35873 68169 09941 25851 80306 56112 37796 00857 38263
19148 39799 77265 92914 63734 48179 49729 45298 92605 69824
05575 51192 17088 98236 89565 50863 43557 24915 85517 47885
43805 81143 05962 90501 31037

11158/10294/9193 kHz, 1700/1720/1740 UTC

11158/10294/9193 kHz, 04-11/06-11, 1700/1720/1740 UTC

00832 00114 01612 88812 91018 15746 62981 54136 83666 96832
84167 25433 38095 06761 44651 26526 07017 07722 05268 37030
44418 37274 55224 34305 81130 20093 25774 77104 00401 95915
20052 71826 84897 26140 30511 91960 41912 41124 60390 30065
22077 99966 00661 95021 65382 94583 15264 56366 54813 86668
25968 61471 65565 35011 83591 31316 87227 46267 43590 31013
05515 23108 20214 77075 68614 33860 31050 41177 36927 24303
19193 18792 96606 91182 51300 14971 07839 82269 02403 86788
53169 65721 60419 95007 07620 06666 38119 31387 22804 52201
55454 14681 09947 46528 71996 90852 67618 82029 38894 65639
76087 11776 71548 50981 66657 18762 42548 10891 15862 60100
97757 30387 09264 01010 71230 54571 60104

11158/10294/9193 kHz, 11-11, 1700/1720/1740 UTC

04505 00001 00000 36254

11158/10294/9193 kHz, 13-11, 1700/1720/1740 UTC

04959 00001 00000 42261

11158/10294/9193 kHz, 18-11/20-11, 1700/1720/1740 UTC

00962 00177 01732 66075 36383 68262 39985 51016 86749 37883
77125 03658 16693 35199 90003 87640 15959 08863 71435 24664
99600 87178 81782 18356 95921 88233 58945 61963 16369 55620
68156 98315 89736 03908 35996 65255 10506 05838 09417 32713
31829 75242 38266 73480 61310 07083 58727 13759 37132 49962
01698 91937 01873 96426 20264 79687 33254 81019 01876 13317
65056 50716 95149 98787 58885 38982 54058 85149 08020 93485
69937 74417 46131 80962 96911 07755 11625 03394 09878 82201
37383 72482 24518 57292 82049 12599 96882 86726 83464 93444
14346 24620 51420 73009 46568 74487 07043 62689 09882 16443
95696 69185 04819 04426 88336 43735 46245 25381 87097 25257
32063 16716 35536 19500 56973 77751 84997 03595 39953 52244
49773 39923 96955 93848 40075 49181 75220 07409 63718 80820
05582 08331 00157 52423 30060 67526 56967 66976 04824 00702
65303 66916 09744 47368 32661 95315 67724 00408 92357 86677
30433 82180 20427 32649 34969 97535 72958 97914 27731 52676
61051 00893 78141 40351 01120 42856 68934 41081 57511 79157
43467 30476 95867 71946 37685 69815 28106 49714 34831 50131

11158/10294/9193 kHz, 25-11, 1700/1720/1740 UTC

05692 00001 00000 35266

11158/10294/9193 kHz, 27-11, 1700/1720/1740 UTC

07067 00001 00000 34665

11564/10487/9319 kHz, 1800/1820/1840 UTC
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11564/10487/9319 kHz, 13-11, 1800/1820/1840 UTC

258 258 258 1 6648 75 8648 75
66278 77863 40067 12769 63201 96905 13151 19392 08898 70401
59874 41541 16892 94526 30416 99490 35041 28182 04484 14070
74262 38487 07269 66021 23551 58194 38245 42128 78193 19438
34407 95924 98177 61243 63435 18286 42324 81286 76244 97015
19019 11594 29211 65385 47681 46263 86716 80248 47259 32511
64982 85851 80694 86880 27017 17791 70594 74045 89217 05006
58660 71022 41198 89458 35993 63948 43363 55648 31091 12130
57166 53754 51937 07468 95049 000 000

Test/trainings transmissions

13892/16301/17436/18582/19084/20381 kHz, 01-11, 0500/0510/0520/0530/0540/0550 kHz

00001 00228 88642 14555 38833 01722 45170 25181 77033 47472
47222 13800 17225 79775 80554 68067 58227 88894 88445 56082
70251 41160 07268 00557 90030 74241 67163 01345 01583 84777
36377 81923 47188 77736 05590 24428 22593 72491 27770 33623
04095 04429 09661 22089 22366 95956 36664 78244 95522 66677
30055 88414 27664 48809 93334 63374 44842 77885 23523 55666
34558 33824 23587 92341 11095 55266 66611 47288 73184 56125
34473 85734 71893 44911 51877 64822 21488 85178 78279 95072
36577 88908 05822 33894 43434 37961 43158 88388 66666 32115
79585 44607 48967 61388 09055 60269 81830 17318 00993 57099
29345 89365 05069 39396 22214 44330 25511 73832 96811 27612
21766 58662 08705 28449 28023 45648 38882 88701 38807 72122
11007 68222 70676 29969 65439 90755 36667 00495 45855 11716
82990 14179 74185 10080 55727 48101 83839 66325 01680 08004
00440 79215 01566 47888 00338 19922 34902 10517 33365 63416
22267 91127 78509 37859 44881 60022 17688 65099 62855 41347
07662 16025 27877 05004 45611 16696 84466 88523 62711 78811

61808 71565 88011 30703 61692 22888 66555 22687 17630 56616
55953 16249 77118 82437 69449 90861 35668 36325 76197 04604
29512 08739 03569 60332 99440 95413 51328 96461 02367 93641
34445 46377 57795 53553 01608 50690 04106 47806 76166 12180
94466 95989 56469 06239 85382 92412 38905 45548 35654 54758
82026 49150 12325 58117 50308 53068 68006 27688 31269 66278
23671

17459/18697/19273/20056/20992/22942 kHz, 01-11, 0700/0710/0720/0730/0740/0750 UTC

00102 00224 22414 33727 09673 68901 96350 23827 67539 09142
80565 96984 57729 27405 19082 83768 08725 82915 65333 76571
92757 98673 21994 46074 93585 04515 01265 89399 00179 87436
20383 51873 19664 08790 81211 28588 06616 97904 61607 14611
12090 02025 01750 64354 10734 56896 71399 24794 76671 08609
41658 80621 47382 25872 83849 59671 27353 76339 40141 05157
67635 06950 23647 80102 88757 28691 77320 48938 46192 90493
77152 10820 21308 50721 64480 90731 96923 57638 35339 36689
33115 76469 12728 91568 45777 39760 04491 93790 24940 21540
01234 30275 57762 56450 46974 05140 78376 21647 75595 82041
79574 22461 78600 86176 31456 30837 59313 96659 61390 93116
62747 69713 40999 03451 72041 91165 94221 32078 34324 48996
24200 83529 23997 24652 89259 46876 53057 64856 03746 59340
12355 75276 82042 53297 57113 10653 97867 26550 60112 14940
80446 07830 32399 31823 58792 31519 89275 54311 84408 55808
10917 46298 87321 26598 57841 96044 98462 53948 96916 84578
77779 94455 92912 02050 80761 87469 87670 87701 46336 61387
93296 67671 71964 19384 68549 16369 51129 92173 65859 57740
57600 98744 80447 47937 48423 66055 87953 55443 95454 61068
12190 43919 29633 75532 37159 85989 14916 30349 51061 71321
43847 01573 07974 23020 62510 43245 74332 67937 58048 41471
44915 06288 88087 39175 26978 79033 14007 44975 53626 14705
99515 32227 92245 85267 49196 49376 20170

16249/18334/19264/20118/20951/22869 kHz, 01-11, 1100/1110/1120/1130/1140/1150 UTC

00103 00285 71873 04314 79587 72149 43015 72264 10145 45883
36156 35459 37321 14606 49818 24553 09761 45913 35438 95950
06825 08962 91999 96580 11844 49402 47348 43632 68349 92747
90846 08723 67912 29030 70059 75920 29135 98210 89679 91485
18438 26729 42547 00599 35294 42514 01204 51983 85564 75016
77739 95246 39580 84369 97342 26310 98062 75291 92468 30185
24801 99382 03914 17396 55036 27432 67546 08290 44546 73897
95417 11550 56233 43951 77512 80094 66413 91399 61286 69328
48197 95364 58066 93332 15008 95599 69141 83541 31687 43748
77856 53842 05741 59493 66684 19055 22815 25151 45562 07861
74966 92913 07436 11667 79598 66189 39012 95628 06857 17248
59896 06662 14005 23140 81987 29435 41316 10581 02387 59435
58290 84004 76602 00798 96039 41574 05808 96739 77266 58456
57279 41262 45836 53424 94360 55283 87927 46398 13734 48818
56586 73512 76684 14439 83851 71194 39836 82600 77505 37249
77738 12233 22763 86125 49569 90961 16310 06638 15626 38023
60380 42272 18361 48399 59967 18633 60824 60580 28778 26704
41506 94916 96845 53568 02849 84777 07320 62163 16945 24845
01738 23207 19234 40017 80717 45045 18498 59710 03854 03398
38972 81289 30771 75710 88436 14314 55150 28284 54470 65217
10369 79255 53821 50801 95741 82821 15386 69194 83276 64791
83641 54145 89691 90780 36285 37173 23038 78343 67681 14922
00134 01114 56725 25380 87730 60216 64144 21135 65130 88533
29627 79034 07693 51727 14475 22481 69384 68431 44274 97894
29658 49303 76432 39062 19756 84826 91596 39990 39424 51262
91275 76805 60601 39547 65083 09255 22530 28441 63069 35524
18676 94250 04063 94741 35164 04607 46452 37964 76304 13803
67788 54605 34068 69785 85263 50829 24680 17663 05623 02904
68619 24154 81710 13868 97257 52820 18432 65705

22917/20789/19543/18241/16252/15809 kHz, 01-11, 1300/1310/1320/1330/1340/1350/ UTC

00104 00221 98942 59838 71390 52932 95925 23222 44867 41598
35953 80490 89531 53050 29473 99645 96647 51938 83646 70854
39824 76769 00957 72421 45247 89613 22114 67847 74542 09850
60757 44459 88575 84090 20594 64005 16604 78238 80281 49693
94133 06183 37403 30073 33336 07305 05035 91285 96009 84517
78689 22810 29540 76289 20246 37788 46504 26521 14590 81775
30817 28077 48678 35016 80840 91492 91913 05440 32455 65466
83040 18408 71655 33952 76718 22639 28254 59772 37974 36942
84578 30827 71837 90024 31159 37946 14919 12286 63844 82805
17500 90082 63647 98505 18876 66057 68505 13498 60343 42952
16391 99593 58830 30543 01476 60281 51154 95586 99569 97606
09533 86731 88546 77647 97195 99989 56239 58653 03856 42894
76573 79627 41595 49649 47965 92957 54759 73148 15076 10661
54133 14756 99428 95020 20550 84984 71996 41293 88547 70877
86790 19332 12715 66237 73271 30768 01536 85999 01309 18885
09818 09851 09641 17448 66378 36762 57998 09180 82576 08517
05521 78004 80509 88908 43473 94776 87302 93524 57096 12211
27992 14945 70104 32978 56102 57240 66911 75357 76377 17197
91421 68759 71839 96189 00842 44281 05114 81979 28641 83786
26985 62816 58716 80029 65356 08785 38821 23806 22763 78493
43464 08010 28902 89096 90892 94872 39745 76662 61345 09138
69850 82639 32802 65379 17095 36760 06165 84318 88065 99190
89661 05323 64882 74470

20847/19184/18358/17435/14967/12267 kHz, 01-11, 1500/1510/1520/1530/1540/1550 UTC

00105 00281 02769 04554 61830 70879 56861 25207 95551 82343
11739 82995 84742 97447 38869 49417 52340 81125 31249 09106
57217 28062 12942 52770 89942 34968 61588 80531 27899 18648
54299 40164 75379 50721 34690 12852 08289 72641 19821 34619
92602 33990 95935 13798 81198 86475 84807 29790 05761 18357
32074 11804 49907 49985 97369 55962 74701 49997 14611 26862
09291 76329 97306 76902 28044 71573 07616 34020 62756 26017
41128 79697 61303 96629 16503 23226 32125 99142 71571 03467
50160 31798 74770 09542 86573 42494 90255 25394 53350 78727
38150 58290 58030 92958 25328 16272 36682 19032 85753 09625
78858 50786 67032 79742 77227 52375 50499 53277 33481 74142
23837 75557 78425 11144 76700 77491 01559 87764 90328 85548
81317 82220 80669 84028 87865 82836 21667 68344 71300 00230
86542 13092 13389 61945 24607 99372 64764 95026 32313 34197
91993 36977 91911 79206 54889 62592 79864 46886 16257 47835
14713 48917 28702 00204 28307 96636 70116 83003 91875 94389
30707 82154 81976 33251 87599 10744 62167 16479 86535 77326
12726 06531 55450 56131 93554 44339 90308 01462 29138 25273
02971 74780 52086 23464 85516 37625 84388 13185 33638 27969
29256 81760 03150 37922 03489 09838 55000 58660 91606 44144
00424 63385 60349 38929 35109 08181 93465 72570 06649 83966
06328 68654 53864 66602 91417 55926 30068 58511 47733 49973
26355 48982 82839 58565 48070 30965 03381 17528 52642 83715
89338 31648 09854 84993 24849 39585 14431 13156 88354 77334
44159 11818 06535 49671 21641 60601 27895 36547 46503 47562
79769 96487 10926 41632 17789 51440 80545 01783 90858 04143
04800 75937 19927 22932 94627 74679 58799 68870 41752 51832
41494 16911 70156 70398 05814 14537 42446 33167 36923 87468
03070 66833 71023 71122

19434/18233/17463/15864/14984/13967 kHz, 01-11, 1700/1710/1720/1730/1740/1750 JUTC

00106 00257 47007 39906 63299 15332 93244 77306 96057 68442
49600 07518 24177 85735 29732 10049 42966 51711 59111 98188
13526 91326 24962 97185 87128 50117 21421 23939 12583 09230
79038 33260 87149 97500 71526 78749 71498 24213 00816 16308
19082 20162 03356 37786 46647 51558 37565 42858 63475 42424

68081 55562 99900 95274 35906 88487 46692 49820 52777 13182
82909 69305 64723 86826 89402 16339 20367 26676 14209 50982
38550 18754 50894 42803 79105 93363 87969 87174 50538 35569
12552 89562 55462 70158 41148 23476 33359 91874 61594 86037
32057 21066 71434 87633 33397 49776 55437 16529 48382 30307
31190 10888 28649 17493 03874 43326 46697 57096 16118 42541
97516 59516 99281 17207 00630 93346 13842 04563 45678 65926
82978 28492 65081 28170 18924 16872 47318 63260 09405 29329
37925 71440 38791 20230 04379 01663 60912 37969 66284 91820
18809 76261 75706 19052 88520 72539 22395 54227 87003 40049
35934 60872 70849 82455 47328 02698 45806 00478 98567 87000
02008 41406 47691 86837 04615 26076 20725 79050 12827 98965
32434 75871 28279 53857 47117 06716 52785 46029 39649 46383
94476 83089 76555 69355 93394 77051 00590 56335 72901 01681
55856 60434 39400 79282 89811 77331 28570 88867 14436 62443
55814 43343 41399 88036 07615 60061 32583 16662 35338 40611
49911 99776 60827 52153 92823 08917 65149 78335 93442 27562
25486 64389 06699 11146 43109 71998 36470 48995 64044 69714
78145 63916 31592 77205 94568 41132 51690 88218 61739 33222
44458 83596 20996 32290 51768 56079 99606 87255 86758 80894
12252 50234 95324 89873 56956 87424 37194 30452 44926 40505

14918/11478/11078 kHz, 01-11, 1920/1930/1940/1950 UTC. Weak.

66107 00289 22049 76175 11751 5743 11666 66055 28255 54481
71880 3370 28263 15401 55975 19316 22858 09713 56941 00185
49272 98812 35811 38334 27588 18543 97630 65947 48253 96141
63718 31477 77151 47292 24287 79810 36602 50725 34504 03715
84009 9986 85222 10890 00550 87585 01360 56662 90986 04636
14303 34009 08865 88800 55197 26151 57480 83703 48585 98206
59212 47722 11903 32114 91081 40412 89318 80069 91112 73164
82713 72132 75207 53226 16174 09685 13579 24921 37794 40002
17183 40967 74960 43616 81838 29699 612 88876 92094 98135
22329 52897 02139 36296 44501 36286 27682 3118719800 60136
98266 20389 65548 17821 21922 42100 55500 55633 2110 34411
12571 32559 45909 08582 81023 18244 72762 68286 50275 61382
17800 03472 88874 92976 50834 29815 69992 38911 08724 79886
82001 60460 05114 77656 41735 96793 75418 57138 21693 39997
70886 66972 3715 46587 85563 89769 06988 93555 55272 26257
63522 59395 02843 84232 42322 94794 31513 72570 66986 92106
72176 19899 46913 92242 63508 52110 27444 68251 66845 84228
42824 15624 46592 10607 90494 50826 89755 4229 07412 61063
22823 76435 88637682466 16363 22606 57617 46689 35320 46940
65280 0 8475 0150 29586 67489 50987 20059 21472 83073 33453
62324 38736 26709 71043 83431 47898 12803 92234 67928 91508
05038 89220 65157 05923 69279 95740 36266 64446 75878 40902
94491 80754 32931 19905 18948 39976 25473 17006 43116 39507
30767 68282 59217 73957 98737 84089 49726 12594 99033 68464
09802 65381 78760 43810 04901 76058 37689 84227 60305 71748
14725 55611 4559 42170 38960 81569 05805 06804 52094 43454
22425 95795 49117 28420 60741 36755 30002 911 8 07184 85 89
45010 23667 65411 07414 31099 29110 01994 89119 78002 42888
02287 41244 56699 71367 24781 75154 22690 17046 34997 17168
78284 35647

12223/11494/10829/10214/9293 kHz, 01-11, 2110/2120/2130/2140/2150 UTC

00108 00216 22065 42856 46349 25073 09426 42966 44680 16832
81545 28225 99881 60187 07547 78054 71836 37201 53237 66765
00519 46598 49132 11135 85766 57214 15878 64623 53254 16040
59026 21779 57291 87086 25669 14346 07464 76682 02860 67674
72427 36647 85230 01263 33647 23593 74253 03280 71131 53032
86103 04738 88045 92448 75092 87863 95237 10930 57088 89133
09195 44801 89710 28640 57805 59765 70933 12794 34518 93199
70589 95152 34341 85561 94337 63871 61367 47869 77487 62172

82960 12597 93491 00221 29936 54288 33733 64841 11994 37804
19108 96533 19593 13725 58478 27626 46935 56590 43457 73880
52659 61459 68761 77930 82441 90949 70395 02483 98110 11221
26496 47367 33441 94915 06173 96597 51308 89489 98703 03516
26032 06091 00800 96712 74091 74054 75558 20615 27082 66710
16936 04776 04412 03606 09512 21500 43834 15561 17778 38985
83891 31249 66730 00773 11307 71739 43092 24677 07551 61880
76316 57444 57885 39940 47848 46568 60659 72047 03839 08387
15390 49780 75400 31399 94283 21719 42955 29834 85402 84672
52762 35747 71710 59717 19624 94781 39359 00026 85404 02351
10962 50881 13063 65201 90392 59490 46890 64471 55757 62943
60839 71786 11721 09391 23595 34110 55848 35330 06488 89587
28784 33257 39274 22878 09117 40568 85733 98167 20315 53065
07209 60632 86642 01487 97423 64508 36717 10198 37436

8154/9341/10429/10735/11576/12197 kHz, 25-11, 0900/0910/0920/0930/0940/0950 UTC

No transmission at 0910z

08221 00230 15533 66733 83472 74620 01995 96717 82708 14297
26334 44132 81203 55995 89321 50413 15797 33215 38406 13134
67081 32096 97915 25351 53974 08837 09463 27894 70600 86106
41270 26071 51696 31010 80212 63085 02771 46359 71214 24469
52173 74330 53219 58402 95654 27880 66727 41598 29608 90588
14410 46085 93392 43904 23088 26137 18127 90180 12759 74635
65157 74099 26116 96601 73025 00262 92434 50193 75782 26236
47641 69437 61999 13937 60960 92749 78875 39512 29696 26094
42108 67864 98285 80011 71696 95184 32677 07792 07911 54074
44957 12589 33600 96578 59311 78072 48214 56617 85376 95391
35444 16534 65814 03372 42946 44971 84084 79455 82943 30348
47261 78614 60484 86663 32526 97292 75813 46104 24904 77839
67584 84641 42282 21707 81278 35051 35836 65420 54625 82887
44535 22257 54134 34304 90648 25573 02049 94912 37064 26724
11099 53221 24848 77561 06813 66341 52104 46936 64051 62018
02258 02109 31712 07536 27806 50801 74250 44106 22092 07895
09134 18663 24830 00056 85812 25003 24480 26180 96013 06952
95242 80899 09040 98179 66739 14363 59793 64719 14894 14937
82946 88899 01369 92606 80628 42425 90543 46597 06497 39847
51322 57941 72820 29168 17589 92435 28391 24791 91748 81808
41861 25923 50921 57098 66774 21357 93068 33532 40795 13443
91006 09530 29212 07155 24948 20234 17294 32223 19426 43387
34458 77881 19683 56166 55629 37300 08079 79870 80589 74303
85970 35002 70355

8154/9341/10429/10735/11576/12197 kHz, 25-11, 1400/1410/1420/1430/1440/1450 UTC

01373 00242 89588 35158 30479 48654 58621 05853 49640 46488
82665 36536 61752 93185 10166 58058 02283 68814 05054 26838
79639 03863 77603 50003 88855 62253 83496 63651 53675 53489
00470 21722 17099 19049 35445 73461 94231 34901 39572 46821
40040 11107 77475 26958 37384 15548 21690 83766 40846 20026
82140 24230 27646 43037 70794 55865 06942 38483 45202 68224
65157 94968 52176 96149 46027 60943 18436 42703 57739 36703
63826 67380 29242 58231 86796 68531 26387 50655 12720 74406
40563 89728 22805 33649 71347 76240 94074 74061 47253 79479
66519 54747 89698 71346 81662 45070 58928 81324 80929 76439
96111 78985 36027 04142 56199 14759 94987 69414 56239 03263
29578 56286 26763 70794 27661 75428 72163 18527 24802 69786
66868 45373 95448 78259 70183 09078 77681 57894 76568 41726
09601 45061 69724 36280 78294 61576 53700 18663 77448 56588
81252 24660 17822 43990 49901 10232 27984 18903 43685 06234
72906 40402 56522 11143 09571 50737 83536 57766 33957 47120
37077 37092 92844 14513 93660 84515 86560 90482 92499 66083
21727 53499 41077 68212 88532 42208 27551 51458 28358 59951
81092 58777 14208 70333 68818 69198 88538 58581 26709 27556
78039 95933 84705 30328 19510 44159 31814 03309 50329 65384

23671 37501 26403 77601 84505 19406 99324 88308 22609 67362
23186 32077 29408 74005 66026 78298 22884 22511 45693 24461
95975 27978 63773 64943 88043 25793 68793 10749 48702 44372
10393 24242 01129 62972 36279 43591 32374 36606 85827 49411
69873 00229 35972 59345 76655

XPB1

19339 kHz, 03-11/04-11/10-11/11-11/17-11/18-11/24-11/25-11, 0600 UTC
18239 kHz, 03-11/04-11/10-11/11-11/17-11/18-11/24-11/25-11, 0610 UTC
17439 kHz, 03-11/04-11/10-11/11-11/17-11/18-11/24-11/25-11, 0620 UTC
16339 kHz, 03-11/04-11/10-11/11-11/17-11/18-11/24-11/25-11, 0630 UTC
15839 kHz, 03-11/04-11/10-11/11-11/17-11/18-11/24-11/25-11, 0640 UTC
14439 kHz, 03-11/04-11/10-11/11-11/17-11/18-11/24-11/25-11, 0650 UTC

20021 kHz, 04-11/11-11/14-11/18-11/25-11, 1300 UTC
19521 kHz, 04-11/11-11/14-11/18-11/25-11, 1310 UTC
18421 kHz, 04-11/11-11/14-11/18-11/25-11, 1320 UTC
17421 kHz, 04-11/11-11/14-11/18-11/25-11, 1330 UTC
16321 kHz, 04-11/11-11/14-11/18-11/25-11, 1340 UTC
15921 kHz, 04-11/11-11/14-11/18-11/25-11, 1350 UTC

Test/training transmissions

- November 2nd, 3rd, 4th, 5th: even hours XPB cycles
- November 6th, 7th: odd hours XPB cycles

Transmission cycles were every other hour from 0400z to 2100z, but no 0900z or 1000z cycles; XPB on a given day was either the normal 65Bd, or 32Bd.

13485 kHz, 02-11/03-11/04-11/05-11, 0400 UTC
14515 kHz, 02-11/03-11/04-11/05-11, 0410 UTC
15963 kHz, 02-11/03-11/04-11/05-11, 0420 UTC
17426 kHz, 02-11/03-11/04-11/05-11, 0430 UTC
18235 kHz, 02-11/03-11/04-11/05-11, 0440 UTC
18748 kHz, 02-11/03-11/04-11/05-11, 0450 UTC

15926 kHz, 02-11/03-11/04-11/05-11, 0600 UTC
16148 kHz, 02-11/03-11/04-11/05-11, 0610 UTC
18321 kHz, 02-11/03-11/04-11/05-11, 0620 UTC
19417 kHz, 02-11/03-11/04-11/05-11, 0630 UTC
20167 kHz, 02-11/03-11/04-11/05-11, 0640 UTC
20893 kHz, 02-11/03-11/04-11/05-11, 0650 UTC

16294 kHz, 02-11/03-11/04-11/05-11, 0800 UTC
18276 kHz, 02-11/03-11/04-11/05-11, 0810 UTC
19426 kHz, 02-11/03-11/04-11/05-11, 0820 UTC
20297 kHz, 02-11/03-11/04-11/05-11, 0830 UTC
20893 kHz, 02-11/03-11/04-11/05-11, 0840 UTC
22874 kHz, 02-11/03-11/04-11/05-11, 0850 UTC

17424 kHz, 02-11/03-11/04-11/05-11, 1200 UTC
18450 kHz, 02-11/03-11/04-11/05-11, 1210 UTC
19085 kHz, 02-11/03-11/04-11/05-11, 1220 UTC
20153 kHz, 02-11/03-11/04-11/05-11, 1230 UTC
20897 kHz, 02-11/03-11/04-11/05-11, 1240 UTC
22873 kHz, 02-11/03-11/04-11/05-11, 1250 UTC

20987 kHz, 02-11/03-11/04-11/05-11, 1400 UTC
19334 kHz, 02-11/03-11/04-11/05-11, 1410 UTC
18482 kHz, 02-11/03-11/04-11/05-11, 1420 UTC
15925 kHz, 02-11/03-11/04-11/05-11, 1430 UTC

14434 kHz, 02-11/03-11/04-11/05-11, 1440 UTC
13984 kHz, 02-11/03-11/04-11/05-11, 1450 UTC

20879 kHz, 02-11/03-11/04-11/05-11, 1600 UTC
20156 kHz, 02-11/03-11/04-11/05-11, 1610 UTC
18571 kHz, 02-11/03-11/04-11/05-11, 1620 UTC
16286 kHz, 02-11/03-11/04-11/05-11, 1630 UTC
15836 kHz, 02-11/03-11/04-11/05-11, 1640 UTC
14976 kHz, 02-11/03-11/04-11/05-11, 1650 UTC

17457 kHz, 02-11/03-11/04-11/05-11, 1800 UTC
16256 kHz, 02-11/03-11/04-11/05-11, 1810 UTC
15863 kHz, 02-11/03-11/04-11/05-11, 1820 UTC
14784 kHz, 02-11/03-11/04-11/05-11, 1830 UTC
13396 kHz, 02-11/03-11/04-11/05-11, 1840 UTC
12162 kHz, 02-11/03-11/04-11/05-11, 1850 UTC

14536 kHz, 02-11/03-11/04-11/05-11, 2000 UTC
13439 kHz, 02-11/03-11/04-11/05-11, 2010 UTC
12162 kHz, 02-11/03-11/04-11/05-11, 2020 UTC
11536 kHz, 02-11/03-11/04-11/05-11, 2030 UTC
11426 kHz, 02-11/03-11/04-11/05-11, 2040 UTC
10798 kHz, 02-11/03-11/04-11/05-11, 2050 UTC

17459 kHz, 06-11/07-11, 0700 UTC
18246 kHz, 06-11/07-11, 0710 UTC
19324 kHz, 06-11/07-11, 0720 UTC
20346 kHz, 06-11/07-11, 0730 UTC
20978 kHz, 06-11/07-11, 0740 UTC
22908 kHz, 06-11/07-11, 0750 UTC

16158 kHz, 06-11/07-11, 1100 UTC
18182 kHz, 06-11/07-11, 1110 UTC
19334 kHz, 06-11/07-11, 1120 UTC
20147 kHz, 06-11/07-11, 1130 UTC
20978 kHz, 06-11/07-11, 1140 UTC
22961 kHz, 06-11/07-11, 1150 UTC

20021 kHz, 06-11/07-11, 1300 UTC
19521 kHz, 06-11/07-11, 1310 UTC
18421 kHz, 06-11/07-11, 1320 UTC
17421 kHz, 06-11/07-11, 1330 UTC
16321 kHz, 06-11/07-11, 1340 UTC
15921 kHz, 06-11/07-11, 1350 UTC

20073 kHz, 06-11/07-11, 1500 UTC
19533 kHz, 06-11/07-11, 1510 UTC
18046 kHz, 06-11/07-11, 1520 UTC
17447 kHz, 06-11/07-11, 1530 UTC
14751 kHz, 06-11/07-11, 1540 UTC
13906 kHz, 06-11/07-11, 1550 UTC

19324 kHz, 06-11/07-11, 1700 UTC
18226 kHz, 06-11/07-11, 1710 UTC
17467 kHz, 06-11/07-11, 1720 UTC
15874 kHz, 06-11/07-11, 1730 UTC
14532 kHz, 06-11/07-11, 1740 UTC
13481 kHz, 06-11/07-11, 1750 UTC

13372 kHz, 06-11/07-11, 2100 UTC
12213 kHz, 06-11/07-11, 2110 UTC
11432 kHz, 06-11/07-11, 2120 UTC
10824 kHz, 06-11/07-11, 2130 UTC

10326 kHz, 06-11/07-11, 2140 UTC
9045 kHz, 06-11/07-11, 2150 UTC

X-- Russian intelligence

19433 kHz, 04-11, 1505 UTC
18521 kHz, 04-11, 1508 UTC
15834 kHz, 17-11, 1330 UTC

DIPLOMATIC STATIONS

Bulgary

14755 kHz, 03-11, 1200 UTC, RFSM-8000
17440 kHz, 03-11, 1223 UTC, RFSM-8000
18455 kHz, 03-11, 1257 UTC, RFSM-8000
18455 kHz, 05-11, 1400 UTC, RFSM-8000
14755 kHz, 14-11, 0922 UTC, RFSM-8000
17440 kHz, 14-11, 1331 UTC, RFSM-8000
18455 kHz, 14-11, 1355 UTC, RFSM-8000
12156 kHz, 14-11, 1111 UTC, RFSM-8000
13365 kHz, 14-11, 1321 UTC, RFSM-8000
16035 kHz, 19-11, 1300 UTC, RFSM-8000
18455 kHz, 19-11, 1357 UTC, RFSM-8000
14755 kHz, 19-11, 0924 UTC, RFSM-8000
14755 kHz, 20-11, 0845 UTC, RFSM-8000
17440 kHz, 20-11, 1321 UTC, RFSM-8000
18455 kHz, 20-11, 1358 UTC, RFSM-8000
18455 kHz, 27-11, 1355 UTC, RFSM-8000
14755 kHz, 27-11, 0925 UTC, RFSM-8000
17440 kHz, 27-11, 1322 UTC, RFSM-8000

Egypt

19981.7 kHz, 01-11, 1314 UTC, SITOR-A 100/170
19880.0 kHz, 01-11, 1316 UTC, CODAN
18051.7 kHz, 01-11, 1346 UTC, SITOR-A 100/170
18050.0 kHz, 01-11, 1348 UTC, CODAN
20056.7 kHz, 02-11, 1402 UTC, SITOR-A 100/170
20055.0 kHz, 02-11, 1407 UTC, CODAN
19666.0 kHz, 02-11, 1426 UTC, CODAN
19667.7 kHz, 02-11, 1526 UTC, SITOR-A 100/170
19666.0 kHz, 02-11, 1528 UTC, CODAN
19667.7 kHz, 02-11, 1629 UTC, SITOR-A 100/170
19666.0 kHz, 02-11, 1629 UTC, CODAN

MFA Cairo clg RCVB: Egyptian embassy Washington
99901: MFA CAiro wkg 66601: Egyptian embassy Washington
MFA Cairo clg RCVB: Egyptian embassy Washington
99901: MFA CAiro wkg 66601: Egyptian embassy Washington
MFA Cairo clg RCVB: Egyptian embassy Washington
99901: MFA CAiro wkg 66601: Egyptian embassy Washington
99901: MFA CAiro wkg 66601: Egyptian embassy Washington
MFA Cairo clg RCVB: Egyptian embassy Washington
99901: MFA CAiro wkg 66601: Egyptian embassy Washington
MFA Cairo clg RCVB: Egyptian embassy Washington
99904: MFA CAiro wkg 66601: Egyptian embassy Washington

19667.7 kHz, 02-11, 1633 UTC, SITOR-A 100/170

MFA Cairo msg to RCVB: Egyptian embassy Washington (partly garbled)
YFASR FAJ.. (messsage nr) L/H 0322 2 11 5202 9? 2 / %11

J: 24

DS : KDJFKQOH

HTSKHGK DPSKMHWJ

@@ DSWOMTKD KDKOJKD OG SLJ 2/11/5202

KDXKMF KDLKFM

JZHFw OMM UKSD OMM UKSD

014 - - 3 -

004 1 - - -

KQJKDS 1 - 3 -

@ KQ-JKDS O-MMKDYFASKH KDXKMFH) 1 (LKT-M . :
 . () @ KQ-JKDS O-MMKDYFASKH KDLKFMH : 3 NDKNH

- YSKGKH KDKOJKD KDXKMFHKDSQR C

L A K DKZ---E .

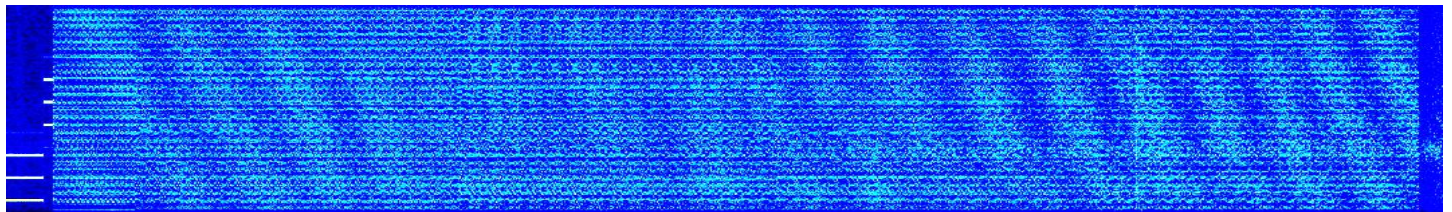
- YSKGKH KDKOJKD KDLKFMH JG 014 :
- OMM 1 YFASR HS 589 QKGYS)
- OMM 1 YFASR HS 689 QKGYVES) YMLG (HB--X 004 .
- OMM 1 YFASR HS 789 QKGYS) 052 (LKFMH JG MJZA .

DKSLQM DMSGK KOJKD JHBDUH
DD-H-U-X-D YKDO-D-J LZ--W--FK
NNNNNN
KFF
HJKJ +?9

18051.7 kHz, 03-11, 1318 UTC, SITOR-A 100/170	Egyptian diplo
18050.0 kHz, 03-11, 1320 UTC, CODAN	Egyptian diplo
18980.0 kHz, 03-11, 1348 UTC, SITOR-A 100/170	MFA Cairo msg to KKVI: Egyptian embassy Dar es Salaam
19981.7 kHz, 03-11, 1401 UTC, SITOR-A 100/170	MFA Cairo clg RCVB: Egyptian embassy Washington
19980.0 kHz, 03-11, 1402 UTC, CODAN	99901: MFA Cairo wkg 66601: Egyptian embassy Washington
19100.0 kHz, 20-11, 1000 UTC, CODAN 9001 75/1650	MFA Cairo wkg 44403: Egyptian embassy Jakarta
16334.7 kHz, 26-11, 1318 UTC, SITOR-A 100/170	MFA Cairo clg TVVX: Egyptian embassy Algiers
16333.0 kHz, 26-11, 1319 UTC, CODAN	MFA Cairo wkg 00001: Egyptian embassy Algiers

Finland

14693 kHz, 16-11, 1112 UTC, Sky-OFDM
14693 kHz, 25-11, 1028 UTC, Sky-OFDM
14693 kHz, 27-11, 1219 UTC, Sky-OFDM
18761 kHz, 28-11, 1305 UTC, Sky-OFDM



North Korea

13200 kHz, 01-11, 0820 UTC, DPRK ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Warsaw
16252 kHz, 01-11, 1300 UTC, DPRK ARQ 600/600 LSB	DPRK embassy Moscow clg DPRK Permanent Mission to the UN, Geneva. QSY freq 14800 kHz //14150 kHz
14150 kHz, 01-11, 1300 UTC, DPRK ARQ 600/600 LSB	DPRK embassy Moscow clg DPRK Permanent Mission to the UN, Geneva. QSY freq 14800 kHz //16252 kHz
14300 kHz, 01-11, 1330 UTC, DPRK ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Sofia
14150 kHz, 01-11, 1338 UTC, DPRK ARQ 600/600 LSB	DPRK embassy Moscow clg DPRK Permanent Mission to the UN, Geneva //14950 kHz
14950 kHz, 01-11, 1340 UTC, DPRK ARQ 600/600 LSB	DPRK embassy Moscow clg DPRK Permanent Mission to the UN, Geneva //14150 kHz
14100 kHz, 03-11, 1257 UTC, DPRK ARQ 600/600 LSB	Unid embassy clg DPRK embassy Moscow
14750 kHz, 03-11, 1257 UTC, DPRK ARQ 600/600 LSB	Unid embassy clg DPRK embassy Moscow
15500 kHz, 03-11, 1257 UTC, DPRK ARQ 1200/600 LSB	DPRK embassy Rome wkg DPRK embassy Moscow
14300 kHz, 04-11, 0939 UTC, DPRK ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Sofia
14300 kHz, 04-11, 1227 UTC, DPRK ARQ 600/600 LSB	DPRK embassy Moscow wkg DPRK embassy Vienna
14300 kHz, 05-11, 0724 UTC, DPRK ARQ 600/600 LSB	DPRK embassy Moscow clg DPRK embassy Berlin. QSY freq 14800 kHz

14300 kHz, 05-11, 0727 UTC, DPRK ARQ 600/600 LSB
 14620 kHz, 05-11, 0825 UTC, DPRK ARQ 1200/600 LSB
 14620 kHz, 05-11, 0830 UTC, DPRK ARQ 1200/600 LSB
 14300 kHz, 05-11, 1204 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 05-11, 1215 UTC, DPRK ARQ 600/600 LSB

12850 kHz, 05-11, 1216 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 05-11, 1225 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 05-11, 1328 UTC, DPRK ARQ 600/600 LSB
 18650 kHz, 07-11, 1025 UTC, DPRK ARQ 600/600 LSB
 18655 kHz, 07-11, 1025 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 07-11, 1229 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 07-11, 1329 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 07-11, 1422 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 07-11, 1547 UTC, DPRK ARQ 600/600 LSB

12850 kHz, 11-11, 1210 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 11-11, 1213 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 11-11, 1226 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 11-11, 1333 UTC, DPRK ARQ 600/600 LSB
 11045 kHz, 13-11, 0844 UTC, DPRK ARQ 600/600 LSB
 14150 kHz, 14-11, 0638 UTC, DPRK ARQ 600/600 LSB

14150 kHz, 14-11, 0645 UTC, DPRK ARQ 600/600 LSB

14300 kHz, 19-11, 0730 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 19-11, 0942 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 20-11, 0730 UTC, DPRK ARQ 600/600 LSB
 13800 kHz, 20-11, 0817 UTC, DPRK ARQ 600/600 LSB
 13200 kHz, 20-11, 0820 UTC, DPRK ARQ 600/600 LSB
 13300 kHz, 20-11, 0816 UTC, DPRK ARQ 600/600 LSB
 14150 kHz, 21-11, 1349 UTC, DPRK ARQ 600/600 LSB
 16100 kHz, 24-11, 1305 UTC, DPRK ARQ 600/600 LSB
 14150 kHz, 25-11, 0645 UTC, DPRK ARQ 600/600 LSB

17140 kHz, 25-11, 1235 UTC, DPRK ARQ 1200/600 LSB
 11045 kHz, 26-11, 1452 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 27-11, 0820 UTC, DPRK ARQ 600/600 LSB
 17140 kHz, 27-11, 0944 UTC, DPRK ARQ 600/600 LSB
 13120 kHz, 27-11, 1210 UTC, DPRK ARQ 600/600 LSB
 14650 kHz, 27-11, 1218 UTC, DPRK ARQ 1200/600 LSB

12180 kHz, 27-11, 1222 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 27-11, 1302 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 27-11, 1332 UTC, DPRK ARQ 600/600 LSB
 18450 kHz, 28-11, 0705 UTC, DPRK ARQ 1200/600 LSB
 12600 kHz, 28-11, 0805 UTC, DPRK ARQ 600/600 LSB
 18650 kHz, 28-11, 1233 UTC, DPRK ARQ 1200/600 LSB
 14200 kHz, 29-11, 1330 UTC, DPRK ARQ 600/600 LSB

DPRK embassy Moscow clg DPRK embassy Berlin. QSY freq 14800 kHz
 DPRK embassy Rome clg DPRK embassy Moscow
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK embassy Berlin. QSY freqs 12850, 13858 kHz

Unid DPRK embassy wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Vienna
 DPRK embassy Moscow wkg DPRK embassy Sofia. QSU freq 15560 kHz
 DPRK embassy Moscow wkg DPRK embassy Cairo
 DPRK embassy Cairo wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Vienna
 DPRK embassy Moscow wkg DPRK embassy Sofia
 DPRK embassy Moscow wkg DPRK embassy Sofia
 DPRK embassy Moscow wkg DPRK embassy Bucharest. QSY freq 13800 kHz

Unid DPRK embassy wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK embassy Vienna
 DPRK embassy Moscow wkg DPRK embassy Sofia
 DPRK embassy Moscow wkg DPRK embassy Stockholm
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. QSY freq 14100 kHz

DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. QSY freq 15550 kHz

DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK embassy Berlin
 Unid DPRK embassy wkg DPRK embassy Moscow
 DPRK embassy Warsaw wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Stockholm
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. QSY freq 14100 kHz

DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Stockholm
 DPRK embassy Moscow wkg DPRK embassy Warsaw
 DPRK embassy Moscow wkg DPRK embassy Rome
 DPRK embassy Moscow wkg DPRK embassy Berlin
 Unid DPRK embassy wkg DPRK embassy Moscow. Endlessly repeating 13600 (the QSY freq)

DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Rome wkg DPRK embassy Moscow
 Unid DPRK embassy wkg DPRK embassy Moscow
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Prague

Russia

15819 kHz, 05-11, 0739 UTC, MFSK-6
 16132 kHz, 06-11, 1440 UTC, MFSK-6
 16219 kHz, 07-11, 0918 UTC, MFSK-6
 13547 kHz, 07-11, 1012 UTC, MFSK-6
 14419 kHz, 13-11, 1331 UTC, MFSK-6
 12195 kHz, 14-11, 0842 UTC, MFSK-66
 14503 kHz, 14-11, 0924 UTC, MFSK-66
 12177 kHz, 14-11, 0930 UTC, MFSK-6
 15710 kHz, 09-11, 0916 UTC, MFSK-6
 16117 kHz, 10-11, 1617 UTC, MFSK-6

MFA Moscow clg 256341: Russian embassy Beirut
 MFA Moscow clg 352416: Russian embassy Dar es Salaam
 MFA Moscow clg 324615: Russian embassy Madrid
 MFA Moscow clg 625413: Russian embassy Tel Aviv (ended at 1125z)
 MFA Moscow clg 521634: Russian embassy Bucharest
 Russian diplo
 Russian diplo
 MFA Moscow clg 356412: Russian embassy Berlin
 MFA Moscow clg 261453: Russian embassy Cairo
 MFA Moscow clg 463125: Russian embassy Rabat

20813 kHz, 11-11, 1033 UTC, MFSK-6	MFA Moscow clg 216354: Russian Consulate General Chennai
15651 kHz, 12-11, 1604 UTC, MFSK-6	MFA Moscow clg 435621: Russian embassy Maupito
20950 kHz, 12-11, 1619 UTC, MFSK-6	MFA Moscow clg 435621: Russian embassy Maupito
14930 kHz, 12-11, 1652 UTC, MFSK-6	MFA Moscow clg 435621: Russian embassy Maupito
12066 kHz, 12-11, 1701 UTC, MFSK-6	MFA Moscow clg 435621: Russian embassy Maupito
15651 kHz, 12-11, 1794 UTC, MFSK-6	MFA Moscow clg 435621: Russian embassy Maupito
18591 kHz, 15-11, 0953 UTC, MFSK-6	MFA Moscow clg 435621: Russian embassy Maputo
14439 kHz, 17-11, 0650 UTC, Serdolik v2	Russian diplo
14377 kHz, 17-11, 0826 UTC, MFSK-6	MFA Moscow clg 432516: Russian embassy Bern
12152 kHz, 17-11, 0833 UTC, MFSK-6	MFA Moscow clg 432516: Russian embassy Bern
14878 kHz, 17-11, 0821 UTC, MFSK-66	Russian diplo
14878 kHz, 17-11, 0839 UTC, MFSK-66	Russian diplo
14713 kHz, 17-11, 0846 UTC, MFSK-66	Russian diplo
12214 kHz, 17-11, 0930 UTC, MFSK-66	Russian diplo
12228 kHz, 17-11, 0950 UTC, MFSK-66	Russian diplo
17511 kHz, 17-11, 1527 UTC, MFSK-6	MFA Moscow clg 641523: Russian embassy Lusaka
14801 kHz, 18-11, 0957 UTC, MFSK-66	Russian diplo
13548 kHz, 19-11, 1548 UTC, MFSK-6	MFA Moscow clg 214356: Russian embassy Amman
16276 kHz, 20-11, 1028 UTC, MFSK-66	Russian diplo
16276 kHz, 20-11, 1248 UTC, MFSK-6	MFA Moscow clg 314265: Russian embassy Antananarivo
16315 kHz, 20-11, 1413 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 20-11, 1414 UTC, Serdolik v2	Russian diplo
16315 kHz, 20-11, 1424 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 20-11, 1425 UTC, Serdolik v2	Russian diplo
16315 kHz, 20-11, 1438 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 20-11, 1440 UTC, Serdolik v2	Russian diplo
16315 kHz, 20-11, 1443 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 20-11, 1444 UTC, Serdolik v2	Russian diplo
16313 kHz, 20-11, 1414 UTC, Serdolik v2	Russian diplo
16276 kHz, 20-11, 1455 UTC, MFSK-66	Russian diplo
16315 kHz, 20-11, 1514 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 20-11, 1414 UTC, Serdolik v2	Russian diplo
16315 kHz, 20-11, 1521 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 20-11, 1521 UTC, Serdolik v2	Russian diplo
16277 kHz, 20-11, 1538 UTC, MFSK-6	MFA Moscow clg 436512: Russian embassy Harare
16315 kHz, 20-11, 1559 UTC, Serdolik v2	Russian diplo. Selcal
16313 kHz, 20-11, 1600 UTC, Serdolik v2	Russian diplo
18232 kHz, 20-11, 1521 UTC, Serdolik v2	Russian diplo. Test
14690 kHz, 24-11, 0916 UTC, Serdolik v2	Russian diplo. Selcal
19277 kHz, 24-11, 0916 UTC, Serdolik v2	Russian diplo. Selcal
14690 kHz, 24-11, 0919 UTC, Serdolik v2	Russian diplo. Selcal
19277 kHz, 24-11, 0919 UTC, Serdolik v2	Russian diplo. Selcal
19275 kHz, 24-11, 0921 UTC, Serdolik v2	Russian diplo
16117 kHz, 24-11, 0926 UTC, MFSK-6	MFA Moscow clg 463125: Russian embassy Rabat
19275 kHz, 24-11, 0929 UTC, Serdolik v2	Russian diplo
17468 kHz, 24-11, 0753 UTC, Serdolik v2	Russian diplo. Selcal
17466 kHz, 24-11, 0754 UTC, Serdolik v2	Russian diplo
14419 kHz, 27-11, 0808 UTC, MFSK-6	MFA Moscow clg 521634: Russian embassy Bucharest
17475 kHz, 27-11, 0801 UTC, MFSK-6	MFA Moscow clg 156234: Russian embassy Kampala
12177 kHz, 28-11, 0924 UTC, MFSK-6	MFA Moscow clg 356412: Russian embassy Berlin
20605 kHz, 28-11, 1015 UTC, MFSK-6	MFA Moscow clg 256134: Russian embassy Abidjan

UTILITY ROUND-UP

Unid station a.k.a. New Buzzer

8422.5 01-11-2025 1600 UTC
8098.5 01-11-2025 1600 UTC
7517.5 01-11-2025 1600 UTC

8422.5 02-11-2025 1729 UTC
8098.5 02-11-2025 1729 UTC

7517.5 02-11-2025 1729 UTC
8422.5 03-11-2025 1536 UTC
8098.5 03-11-2025 1536 UTC
7517.5 03-11-2025 1536 UTC

RUSSIAN MILITARY TRANSCRIPTS

Morse transmissions

23354 kHz, 21-22, 0826 UTC, FSK CW

RDL RDL RDL 49983 56836 49983 56836 49983 56836 K

5823 kHz, 22-11, 1503 UTC, CW, i.p.

RBL2 DE RBL63 QSA4 K

QSA4 K

RK

RAL2 DE RGH2 QSA3 K

23353 kHz, 24-11, 0835 UTC

UUUUU RDL RDL RDL 41479 42427 41479 42427 41479 42427 K

14682 kHz, 26-11, 1008 UTC

P5EL P5EL P5EL DE C8L6 C8L6 K

14682 kHz, 26-11, 1047 UTC

VVVV VVVVV P5EL P5EL P5EL DE C8L6 C8L6 QTC ZOG K

14682 kHz, 26-11, 1050 UTC

P5EL P5EL P5EL DE C8L6 C8L6 QTC ZOG K

C8L6 C8L6 C8LS 822 34 26 1345 722 = ZOG 942 =

12140 73405 54548 27793 92796 63077 17831 49048 50000 94357

22512 00246 68050 50674 87232 98483 11312 05738 38862 90365

09859 11083 10486 97197 32447 05308 85436 79836 55655 63102

26030 192 K

10332 kHz, 28-11, 1041 UTC, i.p.

... 11733 QSX 12660 FM RAA K

RMBE OK QYT4 QWH 11733 QSX 12668 FM RAA K

Digital transmissions

16234 kHz, 22-11, 1619-1626 UTC, T600

16:19:55 Message Start

Sync 1eb41eb2952

Session key: 58 38 54 25 58 2a 68 2a 58 25 1c 46 43 0e 51 2a 51 43 46 13 61 4c 34 4c 52 52

19 46 46 13 07 1a 61 46 15 1a 70 1c 1c 13 54 2a

54 15 32 46 38 2a 62 46 46 23 54 4c 32 0d 34 26

1c 15 <EOM><EOM><EOM>

16:20:09 Message Start

Sync 1eb41eb2952

Session key: 4c 62 34 1c 52 31 07 15 31 62 61 07 0b 0e 32 43 26 61 68 43 62 13 16 4a 31

64 64 4a 34 51 19 25 58 1c 13 2a 0d 0e 0e 26

68 70 1c 54 0b 23 58 2c 4a 26 2a 13 19 0b 07 64

62 46 2a 62 38 2c 52 13 0e 68 0e 19 23 34 4c 32

16 07 2a 31 4c 43 62 4a 0e 19 46 68 16 58 34 26

64 64 43 38 54 0e 2a 32 4c 23 68 2c 52 07 43 13

19 1c 19 15 0d 19 54 1a 43 43 54 46 38 34 61 4c

38 23 2a 15 32 70 54 2a 32 31 38 52 2c 68 4a 62

26 0e 43 13 13 62 2c 68 13 23 38 0b 70 0d 23 4a

26 64 68 52 15 1a 54 19 54 19 15 23 54 13 52 54

61 25 1a 70 32 64 1a 38 31 23 31 31 62 51 64 38

25 54 23 61 19 54 13 46 46 25 68 54 38 52 0d 15

51 46 43 1a 32 54 51 34 15 26 16 15 70 25 0d 70
1c 07 52 0b 0e 2a 0d 46 58 32 15 2a 07 32 70 4c
46 54 16 16 13 43 2a 0b 43 58 0d 46 26 2a 51 0e
25 51 15 16 32 2c 32 19 0e 58 13 51 62 43 1c 38
15 58 1c 23 25 38 64 52 4a 64 38 62 1a 0e 68 1a
23 70 70 4a 4a 64 64 58 46 54 19 61 07 1a 4c 32
2a 34 51 1a 0d 62 51 31 68 13 46 19 13 2c 43 4a
19 51 43 34 07 51 51 62 0e 43 43 64 16 58 70 0b
26 52 13 70 1a 61 2c 25 0d 54 23 4a 51 54 31 19
16 64 38 4a 32 15 23 54 68 4a 1a 1c 32 4a 52 43
61 15 13 32 07 4a 0d 62 2c 4c 2c 16 26 43 19 13
0e 0b 58 0b 2a 54 38 4c 2a 68 52 34 25 68 2a 0d
0b 07 0b 68 26 1c 4a 43 2a 25 43 19 25 54 38 4a
54 13 38 15 0e 32 31 0b 13 31 2a 34 16 2c 54 0e
58 1c 4c 0e 0b 4a 34 31 0d 16 19 2a 38 38 51 51
31 19 31 26 0d 1c 1a 25 32 31 52 1c 43 2a 61 4a
25 15 0d 31 32 70 25 51 15 64 34 23 1a 2c 2a 07
61 61 25 52 31 16 46 19 0d 58 0d 46 70 19 64 4c
1a 4a 70 25 61 4a 19 34 52 34 0b 64 19 51 0e 1c
54 23 54 0e 1c 07 2c 0b 25 38 19 1c 19 43 26 0b
1a 62 4c 4a 26 31 38 0e 2a 51 52 38 26 0b 0e 64
34 1c 34 54 2c 0b 32 07 19 13 16 34 0b 54 61 38
2a 16 25 07 26 07 61 1a 32 23 46 64 34 52 51 25
1c 43 32 07 1a 43 0b 0d 0e 34 0e 26 0b 31 64 16
13 0e 43 07 2a 16 0e 2a 19 51 25 58 0e 43 4a 32
31 15 4a 54 38 31 15 54 43 68 62 25 1c 4c 07 2c
70 52 43 07 23 0b 34 0d 43 23 25 43 51 61 0e 46
31 4c 31 26 15 70 0e 0e 2c 26 52 62 0d 4c 4c 0e
31 31 46 54 26 0d 2a 2c 58 15 0e 2c 4a 4a 61 31
1a 32 16 2a 34 64 0d 31 68 70 0e 31 68 68 62 07
16 4a 52 46 23 4a 4a 4a 34 51 0b 25 19 2a 34 62
70 16 4a 38 32 26 1c 62 4c 1a 43 1c 19 16 64 1c
62 31 2a 58 1c 46 25 15 2c 25 68 38 25 2c 32 16
62 34 70 25 2a 52 1c 1c 58 64 0b 16 0d 51 54 0e
31 2c 15 62 68 31 25 46 19 58 2c 64 58 32 52 52
0b 0b 38 26 31 61 19 43 13 26 26 15 2c 68 19 51
51 70 31 1a 64 23 46 07 32 11 1a 54 32 16 1a 62
2c 70 58 38 19 0e 07 5a 58 19 38 68 70 15 1c 58
58 62 4a 07 4c 52 64 4c 61 23 34 2c 0e 46 16 07
07 34 2a 46 62 68 13 19 4c 34 38 4a 32 19 61 70
0e 61 54 07 34 0e 62 51 0b 31 52 23 74 68 0d 31
34 07 25 62 46 1a 68 16 70 07 62 38 38 4a 34 26
0e 16 0d 1a 25 54 54 38 32 61 2c 62 0b 58 32 1a
0b 26 0d 26 0e 19 2a 34 19 0d 19 46 62 0e 0b 54
46 46 15 4a 26 61 1c 61 38 2c 0b 25 19 13 46 15
19 58 61 4c 32 16 62 68 4c 62 68 34 43 51 1c 0e
0b 13 64 51 62 68 0b 61 70 58 43 2c 16 26 0e 07
0b 68 13 46 2a 0e 0b 1a 43 4a <EOM><EOM><EOM>

16:22:28 Message Start

Sync 1eb41eb2952

Session key: 4c 62 34 1c 52 31 07 15 31 62 61 07 0b 0e 32 43 26 61 68 43 62 13 16 4a 31

64 64 4a 34 51 51 19 25 58 1c 13 2a 0d 0e 0e 26
68 70 1c 54 0b 23 58 2c 4a 26 2a 13 19 0b 07 64
62 46 2a 62 38 2c 52 13 0e 68 0e 19 23 34 4c 32
16 07 2a 31 4c 43 62 4a 0e 19 46 68 16 58 34 26
64 64 43 38 54 0e 2a 32 4c 23 68 2c 52 07 43 13
19 1c 19 15 0d 19 54 1a 43 43 54 46 38 34 61 4c
38 23 2a 15 32 70 54 2a 32 31 38 52 2c 68 4a 62
26 0e 43 13 13 62 2c 68 13 23 38 0b 70 0d 23 4a
26 64 68 52 15 1a 54 19 54 19 15 23 54 13 52 54
61 25 1a 70 32 64 1a 38 31 23 31 31 62 51 64 38
25 54 23 61 19 54 13 46 46 25 68 54 38 52 0d 15
51 46 43 1a 32 54 51 34 15 26 16 15 70 25 0d 70
1c 07 52 0b 0e 2a 0d 46 58 32 15 2a 07 32 70 4c
46 54 16 16 13 43 2a 0b 43 58 0d 46 26 2a 51 0e
25 51 15 16 32 2c 32 19 0e 58 13 51 62 43 1c 38
15 58 1c 23 25 38 64 52 4a 64 38 62 1a 0e 68 1a
23 70 70 4a 4a 64 64 58 46 54 19 61 07 1a 4c 32
2a 34 51 1a 0d 62 51 31 68 13 46 19 13 2c 43 4a
19 51 43 34 07 51 51 62 0e 43 43 64 16 58 70 0b
26 52 13 70 1a 61 2c 25 0d 54 23 4a 51 54 31 19
16 64 38 4a 32 15 23 54 68 4a 1a 1c 32 4a 52 43

61 15 13 32 07 4a 0d 62 2c 4c 2c 16 26 43 19 13
0e 0b 58 0b 2a 54 38 4c 2a 68 52 35 25 68 2a 0d
0b 07 0b 68 26 1c 4a 43 2a 25 43 19 25 54 38 4a
54 13 38 15 0e 32 31 0b 13 31 2a 34 16 2c 54 0e
58 1c 4c 0e 0b 4a 34 31 0d 16 19 2a 38 38 51 51
31 19 31 26 0d 1c 1a 25 32 31 52 1c 43 2a 61 4a
25 15 0d 31 32 70 25 51 15 64 34 23 1a 2c 2a 07
61 61 25 52 31 16 46 19 0d 58 0d 46 70 19 64 4c
1a 4a 70 25 61 4a 19 34 52 34 0b 64 19 51 0e 1c
54 23 54 0e 1c 07 2c 0b 25 38 19 1c 19 43 26 0b
1a 62 4c 4a 26 31 38 0e 2a 51 52 38 26 0b 0e 64
34 1c 34 54 2c 0b 32 07 19 13 16 34 0b 54 61 38
2a 16 25 07 26 07 61 1a 32 23 46 64 34 52 51 25
1c 43 72 07 1a 43 0b 0d 0e 34 0e 26 0b 31 64 16
13 0e 43 07 2a 16 0e 2a 19 51 25 58 0e 43 4a 32
31 15 4a 54 38 31 15 54 43 68 62 25 1c 4c 07 2c
70 52 43 07 23 0b 34 0d 43 23 25 43 51 61 0e 46
31 4c 31 26 15 70 0e 0e 2c 26 52 62 0d 4c 4c 0e
31 31 46 54 26 0d 2a 2c 58 15 0e 2c 4a 4a 61 31
1a 32 16 2a 34 64 0d 31 68 70 0e 31 68 68 62 07
16 4a 52 46 23 4a 4a 4a 34 51 0b 25 19 2a 34 62
70 16 4a 38 32 26 1c 62 4c 1a 43 1c 19 16 64 1c
62 31 2a 58 1c 46 25 15 2c 25 68 38 25 2c 32 16
62 34 70 25 2a 52 1c 1c 58 64 0b 16 0d 51 54 0e
31 2c 15 62 68 31 25 46 19 58 2c 64 58 32 52 52
0b 0b 38 26 31 61 19 43 13 26 26 15 2c 68 19 51
51 70 31 1a 64 23 46 07 32 13 1a 54 32 16 1a 62
2c 70 58 38 19 0e 07 1a 58 19 38 68 70 15 1c 58
58 62 4a 07 4c 52 64 4c 61 23 34 2c 0e 46 16 07
07 34 2a 46 62 68 13 19 4c 34 38 4a 32 19 61 70
0e 61 54 07 34 0e 62 51 0b 31 52 23 34 68 0d 31
34 07 25 62 46 1a 68 16 70 07 62 38 38 4a 34 26
0e 16 0d 1a 25 54 54 38 32 61 2c 62 0b 58 32 1a
0b 26 0d 26 0e 19 2a 34 19 0d 19 46 62 0e 0b 54
46 46 15 4a 26 61 1c 61 38 2c 0b 25 19 13 46 15
19 58 61 4c 32 16 62 68 4c 62 68 34 43 51 1c 0e
0b 13 64 51 62 68 0b 61 70 58 43 2c 16 26 0e 07
0b 68 13 46 2a 0e 0b 1a 43 4a <EOM><EOM><EOM>

16:24:55 Message Start

Sync 1eb41eb2952

Session key: 32 52 70 64 2c 26 4c 26 4c 61 16 52 4a 4a 68 4a 34 31 16 16 64 25 58 64 19
46 0e 15 13 4c 70 46 1c 0d 23 51 1a 68 58 0b 58
0d 2c 4a 13 25 0e 54 13 52 13 13 46 51 19 2c 1c
46 23 38 <EOM><EOM><EOM>

16:25:47 Message Start

Sync 1eb41eb2952

Session key: 13 62 13 70 13 62 58 1c 0d 38 0e 70 43 68 07 13 15 0e 07 16 2c 43 31 19 31
61 32 16 2a 62 15 26 07 4c 4a 34 25 1c 25 16 32
34 1c 16 70 25 15 4a 15 46 58 61 52 43 19 0b 16
62 15 31 <EOM><EOM><EOM>

16:26:00 Message Start

Sync 1eb41eb2952

Session key: 15 38 61 31 4a 64 25 58 0d 62 61 70 43 4a 32 64 43 0d 32 19 54 0e 38 07 34
26 38 0b 26 16 62 13 2c 52 61 4c 70 2c 26 54 64
62 61 25 07 1a 38 61 1a 4c 23 52 16 0b 25 0d 15
43 4c 51 23 26 64 51 31 68 32 15 52 0d 38 46 23
62 1c 70 2a 2c 0d 46 54 0b 54 16 4a 0b 43 52 70
1c 31 62 70 4a 34 52 23 54 54 1c 62 54 0e 32 38
68 25 32 07 62 52 58 23 34 1a 0b 38 70 4c 4a 26
58 38 26 0d 0e 25 62 38 1c 2c 58 51 38 58 61 51
0b 61 23 1a 25 31 58 1a 4a 07 34 70 4a 58 15 34
0e 64 38 19 4c 0d 61 32 52 4a 15 38 61 51 32 70
1a 13 58 16 0d 13 51 58 46 25 2a 0e 64 1a 54 38
0b 34 0b 54 31 52 31 51 46 07 2a 0e 1c 70 26 46
15 0d 1a 0e 62 4c 2c 70 0b 2c 0e 0b 68 70 62 0d
62 4a 2c 19 1a 2c 68 62 56 1a 51 4c 61 4a 13 16
4c 1a 0d 0e 13 2c 70 19 0e 70 23 0e 68 23 2a 62
68 64 2c 1a 54 62 54 15 0e 2c 34 4c 34 2c 07 1a
0b 61 31 16 31 46 1a 0d 31 1c 62 43 31 0d 31 32
70 61 4c 16 58 16 16 2a 58 07 32 07 0e 68 16 62

34 34 0e 43 54 15 25 46 34 51 58 70 51 4c 52 32
34 32 4a 4c 15 70 51 43 58 58 52 15 46 07 19 07
4c 46 07 61 13 4c 52 4c 07 0e 70 25 38 62 61 4c
0e 52 4a 38 2c 4c 54 61 0d 26 64 52 23 34 0b 0b
31 54 51 15 34 4c 0b 16 34 16 25 19 51 31 38 58
38 26 61 13 0d 38 38 68 38 23 07 51 0e 07 4c 70
34 62 34 2a 46 52 43 19 46 31 1a 46 38 70 1c 46
54 58 51 25 1a 4a 2c 13 4a 38 51 52 61 13 07 0e
26 1c 0d 68 52 0b 38 68 25 26 26 23 34 4a 34 61
15 31 23 4a 16 2c 61 31 38 15 0e 70 52 0d 25 31
31 0e 4a 19 2a 0d 46 52 51 58 2c 43 51 2a 13 46
0e 54 4a 43 16 4a 46 34 64 64 2c 68 4a 34 0e 68
68 0e 1c 23 58 1c 0b 4a 2c 31 2c 52 51 32 32 26
70 0d 43 32 26 54 4c 23 62 2c 52 38 1a 4a 4c 25
2a 19 26 07 46 19 25 52 68 70 43 1c 07 58 52 2a
4a 52 32 26 0d 32 2a 31 0e 26 26 4a 62 31 2a 70
2a 62 61 64 61 32 51 4a 51 34 64 4a 31 1a 4c 4c
0d 52 46 43 61 62 13 19 58 1c 19 2c 62 68 4c 70
58 16 34 19 64 70 34 1c 61 70 62 4c 07 07 16 0d
51 26 52 46 32 32 58 46 19 0d 26 38 1a 62 38 32
15 52 25 19 38 43 31 54 70 54 68 15 0b 46 0d 25
1a 43 68 43 32 4c 4a 1a 26 0d 34 07 38 38 1a 0d
0b 43 23 2a 31 25 61 38 31 4c 1c 61 16 58 31 2c
61 2a 32 0b 07 1c 46 68 31 26 70 43 0e 68 16 61
58 70 34 26 34 07 1a 0d 16 54 0e 19 1a 23 19 23
46 70 51 4c 0d 46 15 70 4c 19 13 0d 4a 2a 46 0b
0e 25 0e 61 1a 52 54 0e 16 0d 1a 2a 54 0d 26 23
32 23 38 23 25 2a 52 19 61 62 52 46 19 43 46 13
0b 64 23 34 1c 0b 51 52 32 52 62 0d 68 54 1c 2c
64 68 26 16 16 70 46 51 0b 54 1a 58 58 0e 15 26
15 0b 25 2c 0e 62 0d 31 78 16 38 26 0d 0d 0d 15
64 62 2c 61 38 0e 64 32 54 38 62 0e 23 0b 26 46
31 54 68 4c 0e 0b 68 62 31 4c 13 2a 61 31 0b 38
4c 07 34 32 15 0d 32 0d 2c 19 58 61 13 38 19 4a
13 70 4a 58 0b 4c 68 4a 07 4a 19 54 0b 62 61 19
0d 32 58 1a 25 62 1c 0b 23 46 51 26 58 0d 0b 52
15 2a 64 54 51 2a 62 0e 43 25 2a 2c 43 25 52 34
32 0b 2a 25 68 15 64 52 4a 2a 25 07 62 43 51 4a
2a 32 0e 34 2c 25 25 58 54 1a 34 51 0d 26 54 0d
13 54 19 2c 70 4a 62 34 2c 54 16 62 46 0e 32 52
26 70 0b 15 25 26 68 46 1a 26 4c 0b 16 16 58 54
13 25 38 19 43 58 0e 2c 58 0e 07 13 58 31 23 31
32 52 43 46 58 58 43 61 25 2c 0b 0d 61 68 70 61
1c 1a 0b 32 58 51 2c 64 4a 26 0e 23 16 58 62 1a
25 64 61 68 38 62 34 38 4a 0b 26 68 34 43 15 46
23 19 34 62 68 0e 43 16 46 13 64 19 58 2c 25 34
64 32 07 23 2c 34 58 38 2a 07 2a 52 2a 64 19 64
13 62 34 52 38 0b 0d 52 51 16 1c 68 15 0b 51 25
4a 70 0b 0d 0b 2a 15 64 1c 70 16 43 0e 31 0b 0e
38 4c 70 4c 0b 07 4c 51 58 26 43 4a 32 2a 07 0b
58 0d 38 1a 23 2a 62 1a 32 3c 43 34 2a 51 0b 2a
07 43 23 4c 58 13 0d 70 32 1c 68 62 2a 68 4c 19
19 2a 1c 38 58 1a 25 51 62 68 54 25 38 25 07 0b
15 32 46 31 13 4a 1c 16 43 13 70 13 0d 0d 13 31
38 16 26 52 64 19 38 0e 2c 4c 16 26 25 54 32 34
61 4c 16 58 4a 1a 1a 34 52 34 32 26 4c 1a 4a 1c
52 4a 23 1a 1a 62 07 2a 19 0b 26 2a 64 38 25 38
16 2a 31 2a 1a 61 0b 46 1c 31 0e 34 70 07 58 34
1c 0e 4c 61 23 25 51 62 19 4a 61 51 0e 4a 34 4a
26 32 15 2a 34 62 15 2a 07 58 38 62 38 32 25 25
51 46 0b 1a 1a 34 2c 64 0e 46 13 4a <EOM><EOM><EOM>

LOGS SECTION

Code	Date	UTC	Freq	Day	Details	Mode	Contributor
BUL	3-11	1200	14755	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	3-11	1223	17440	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	3-11	1257	18455	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	5-11	1400	18455	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	14-11	0922	14755	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	14-11	1111	12156	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	14-11	1321	13365	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	14-11	1331	17440	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	14-11	1355	18455	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-11	0924	14755	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-11	1300	16035	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-11	1357	18455	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	20-11	0845	14755	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	20-11	1321	17440	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	20-11	1358	18455	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	27-11	0925	14755	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	27-11	1322	17440	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	27-11	1355	18455	Thu	Bulgarian diplo	RFSM-8000	(AB)
E06	18-11	0720	10755	Tue	975 381 60 55721 57880 74482 ... 61726 34280 05191 off	USB	(PY)
E07	1-11	1000	17428	Sat	417 417 417 000	USB	(AB/HFD)
E07	1-11	1020	16132	Sat	417 417 417 000	USB	(AB/HFD)
E07	4-11	1500	14737	Tue	751 751 751 000	USB	(AB/HFD)
E07	4-11	1520	13537	Tue	751 751 751 000	USB	(AB/HFD)
E07	6-11	1000	17428	Thu	417 417 417 1 269 129 269 129 79849 34300 87860 ... 55479 42408 75688 000 000	USB	(AB/HFD)
E07	6-11	1020	16132	Thu	417 417 417 1 269 129 269 129 79849 34300 87860 ... 55479 42408 75688 000 000	USB	(AB/HFD)
E07	6-11	1040	14789	Thu	417 417 417 1 269 129 269 129 79849 34300 87860 ... 55479 42408 75688 000 000	USB	(AB/HFD)
E07	7-11	1500	14737	Fri	751 751 751 000	USB	(AB)
E07	7-11	1520	13537	Fri	751 751 751 000	USB	(AB)
E07	8-11	1000	17428	Sat	417 417 417 1 269 129 269 129 79849 34300 87860 ... 55479 42408 75688 000 000	USB	(AB)
E07	8-11	1020	16132	Sat	417 417 417 1 269 129 269 129 79849 34300 87860 ... 55479 42408 75688 000 000	USB	(AB)
E07	8-11	1040	14789	Sat	417 417 417 1 269 129 269 129 79849 34300 87860 ... 55479 42408 75688 000 000	USB	(AB)
E07	11-11	1500	14737	Tue	751 751 751 1 873 121 873 121 95610 44231 38695 ... 24845 51856 68287 000 000	USB	(AB)
E07	11-11	1520	13537	Tue	751 751 751 1 873 121 873 121 95610 44231 38695 ... 24845 51856 68287 000 000	USB	(AB)
E07	11-11	1540	12137	Tue	751 751 751 1 873 121 873 121 95610 44231 38695 ... 24845 51856 68287 000 000	USB	(AB)
E07	13-11	1000	17428	Thu	417 417 417 000	USB	(AB)
E07	13-11	1020	16132	Thu	417 417 417 000	USB	(AB)
E07	14-11	1500	14737	Fri	751 751 751 1 873 121 873 121 95610 44231 38695 ... 24845 51856 68287 000 000	USB	(AB)
E07	14-11	1520	13537	Fri	751 751 751 1 873 121 873 121 95610 44231 38695 ... 24845 51856 68287 000 000	USB	(AB)

E07	14-11	1540	12137	Fri	751 751 751 1 873 121 873 121 95610 44231 38695 ... 24845 51856 68287 000 000	USB	(AB)
E07	15-11	1000	17428	Sat	417 417 417 000	USB	(AB)
E07	15-11	1020	16132	Sat	417 417 417 000	USB	(AB)
E07	18-11	1500	14737	Tue	751 751 751 000	USB	(AB)
E07	18-11	1520	13537	Tue	751 751 751 000	USB	(AB)
E07	20-11	1000	17428	Thu	417 417 417 1 4821 131 4821 131 06772 93330 28437 ... 26811 53861 26241 000 000	USB	(AB)
E07	20-11	1020	16132	Thu	417 417 417 1 4821 131 4821 131 06772 93330 28437 ... 26811 53861 26241 000 000	USB	(AB)
E07	20-11	1040	14789	Thu	417 417 417 1 4821 131 4821 131 06772 93330 28437 ... 26811 53861 26241 000 000	USB	(AB)
E07	21-11	1500	14737	Fri	751 751 751 000	USB	(AB)
E07	21-11	1520	13537	Fri	751 751 751 000	USB	(AB)
E07	22-11	1000	17428	Sat	417 417 417 1 4821 131 4821 131 06772 93330 28437 ... 26811 53861 26241 000 000	USB	(AB)
E07	22-11	1020	16132	Sat	417 417 417 1 4821 131 4821 131 06772 93330 28437 ... 26811 53861 26241 000 000	USB	(AB)
E07	22-11	1040	14789	Sat	417 417 417 1 4821 131 4821 131 06772 93330 28437 ... 26811 53861 26241 000 000	USB	(AB)
E07	25-11	1500	14737	Tue	751 751 751 1 955 85 955 85 65755 71662 84295 ... 96590 44613 47467 000 000	USB	(AB)
E07	25-11	1500	14737	Tue	751 751 751 1 955 85 955 85 65755 71662 84295 ... 96590 44613 47467 000 000	USB	(AB)
E07	25-11	1520	13537	Tue	751 751 751 1 955 85 955 85 65755 71662 84295 ... 96590 44613 47467 000 000	USB	(AB)
E07	25-11	1520	13537	Tue	751 751 751 1 955 85 955 85 65755 71662 84295 ... 96590 44613 47467 000 000	USB	(AB)
E07	25-11	1540	12137	Tue	751 751 751 1 955 85 955 85 65755 71662 84295 ... 96590 44613 47467 000 000	USB	(AB)
E07	25-11	1540	12137	Tue	751 751 751 1 955 85 955 85 65755 71662 84295 ... 96590 44613 47467 000 000	USB	(AB)
E07	27-11	1000	17428	Thu	417 417 417 000	USB	(AB)
E07	27-11	1020	16132	Thu	417 417 417 000	USB	(AB)
E07	29-11	1000	17428	Sat	417 417 417 000	USB	(AB)
E07	29-11	1020	16132	Sat	417 417 417 000	USB	(AB)
E11	1-11	1430	13363	Sat	918/00 Out	USB	(AB/HFD)
E11	1-11	1605	4505	Sat	394/00 Out	USB	(AB)
E11	1-11	1645	4909	Sat	368/00 Out	USB	(AB/HFD)
E11	2-11	0600	7850	Sun	354/00 Out	USB	(AB/HFD)
E11	2-11	1605	5432	Sun	233/00 Out	USB	(AB/HFD)
E11	2-11	1645	4909	Sun	364/00 Out	USB	(AB)
E11	2-11	1745	12924	Sun	246/00 Out	USB	(AB/HFD)
E11	2-11	1815	6849	Sun	924/00 Out	USB	(AB/HFD)
E11	2-11	2000	5082	Sun	525/00 Out	USB	(AB/HFD)
E11	3-11	0600	20286	Mon	945/00 Out	USB	(HFD)
E11	3-11	0715	20167	Mon	751/00 Out	USB	(AB/HFD)
E11	3-11	0745	10213	Mon	264/00 Out	USB	(AB/HFD)
E11	3-11	0830	23353	Mon	185/00 Out	USB	(AB/HFD)
E11	3-11	0845	12067	Mon	715/00 Out	USB	(AB/HFD)
E11	3-11	0900	15915	Mon	538/00 Out	USB	(AB/HFD)
E11	3-11	1045	14410	Mon	693/00 Out	USB	(AB/HFD)
E11	3-11	1300	4909	Mon	312/00 Out	USB	(HFD)
E11	3-11	1900	6849	Mon	641/00 Out	USB	(HFD)
E11	4-11	0505	12153	Tue	332/00 Out	USB	(HFD)

E11	4-11	0700	6804	Tue	573/00 Out	USB	(HFD)
E11	4-11	0715	14975	Tue	634/00 Out	USB	(HFD)
E11	4-11	0745	23031	Tue	221/00 Out	USB	(HFD)
E11	4-11	0820	14611	Tue	135/00 Out	USB	(HFD)
E11	4-11	0845	17378	Tue	152/00 Out	USB	(HFD)
E11	4-11	1000	9079	Tue	302/00 Out	USB	(HFD)
E11	4-11	1205	11559	Tue	461/00 Out	USB	(HFD)
E11	4-11	1430	13363	Tue	912/00 Out	USB	(AB)
E11	4-11	1605	5432	Tue	236/00 Out	USB	(AB)
E11	5-11	0600	20286	Wed	946/00 Out	USB	(AB)
E11	5-11	0645	14972	Wed	413/00 Out	USB	(HFD)
E11	5-11	0715	20167	Wed	752/00 Out	USB	(AB)
E11	5-11	0745	17378	Wed	346/00 Out	USB	(AB/HFD)
E11	5-11	0820	14611	Wed	136/00 Out	USB	(AB)
E11	5-11	0845	12067	Wed	713/00 Out	USB	(AB)
E11	5-11	0900	15915	Wed	532/00 Out	USB	(AB)
E11	5-11	0930	7469	Wed	273/00 Out	USB	(AB/HFD)
E11	5-11	1045	14410	Wed	694/00 Out	USB	(AB)
E11	5-11	1205	11559	Wed	465/00 Out	USB	(AB)
E11	5-11	1610	4505	Wed	391/00 Out	USB	(AB/HFD)
E11	5-11	1715	5082	Wed	972/00 Out	USB	(AB/HFD)
E11	6-11	0745	23031	Thu	227/00 Out	USB	(AB)
E11	6-11	0845	17378	Thu	156/00 Out	USB	(AB)
E11	6-11	0930	7469	Thu	271/00 Out	USB	(AB)
E11	6-11	1300	4909	Thu	313/00 Out	USB	(AB)
E11	6-11	1530	5409	Thu	261/00 Out	USB	(AB/HFD)
E11	6-11	1900	6849	Thu	643/00 Out	USB	(AB)
E11	6-11	2000	5082	Thu	521/00 Out	USB	(AB)
E11	7-11	0600	7850	Fri	350/00 Out	USB	(AB)
E11	7-11	0700	6804	Fri	570/00 Out	USB	(AB)
E11	7-11	0715	14975	Fri	631/00 Out	USB	(AB)
E11	7-11	0745	17378	Fri	343/00 Out	USB	(AB-POL)
E11	7-11	0830	23353	Fri	185/00 Out	USB	(AB-POL)
E11	7-11	1000	9079	Fri	307/00 Out	USB	(AB)
E11	7-11	1715	5082	Fri	975/00 Out	USB	(AB)
E11	7-11	1815	6849	Fri	926/00 Out	USB	(AB)
E11	7-11	1910	10487	Fri	613/00 out	USB	(HFD)
E11	8-11	0700	5371	Sat	498/00 Out	USB	(AB)
E11	8-11	1430	13363	Sat	912/00 Out	USB	(AB)
E11	8-11	1605	4505	Sat	395/00 Out	USB	(AB)
E11	8-11	1645	4909	Sat	365/00 Out	USB	(AB)
E11	9-11	0600	7850	Sun	354/00 Out	USB	(TM)

E11	9-11	0700	5371	Sun	498/00 Out	USB	(AB)
E11	9-11	1605	5432	Sun	238/00 Out	USB	(AB)
E11	9-11	1645	4909	Sun	363/00 Out	USB	(AB)
E11	9-11	1745	12924	Sun	244/00 Out	USB	(AB)
E11	9-11	1815	6849	Sun	929/00 Out	USB	(AB)
E11	9-11	1910	10487	Sun	613/00 Out ?? barely audible	USB	(AB)
E11	9-11	2000	5082	Sun	521/00 Out	USB	(AB)
E11	10-11	0600	20286	Mon	946/00 Out	USB	(AB)
E11	10-11	0715	20167	Mon	755/00 Out	USB	(AB)
E11	10-11	0745	10213	Mon	264/00 Out	USB	(AB)
E11	10-11	0845	12067	Mon	713/00 Out	USB	(AB)
E11	10-11	0900	15915	Mon	533/00 Out	USB	(AB)
E11	10-11	1300	4909	Mon	312/00 Out	USB	(AB)
E11	10-11	1745	12924	Mon	249/00 Out	USB	(AB)
E11	11-11	0505	12153	Tue	Active, too weak to copy	USB	(AB)
E11	11-11	0645	12385	Tue	517/00 Out	USB	(AB)
E11	11-11	0700	6804	Tue	576/00 Out	USB	(AB)
E11	11-11	0715	14975	Tue	636/00 Out	USB	(AB)
E11	11-11	0745	23031	Tue	229/00 Out	USB	(AB)
E11	11-11	0820	14611	Tue	130/00 Out	USB	(AB)
E11	11-11	0845	17378	Tue	152/00 Out	USB	(AB)
E11	11-11	1000	9079	Tue	309/00 Out	USB	(AB)
E11	11-11	1430	13363	Tue	912/00 Out	USB	(AB)
E11	11-11	1605	5432	Tue	238/00 Out	USB	(AB)
E11	12-11	0315	8102	Wed	253/00 Out	USB	(AB/HFD)
E11	12-11	0600	20286	Wed	949/00 Out	USB	(AB)
E11	12-11	0645	14972	Wed	Active	USB	(AB)
E11	12-11	0715	20167	Wed	751/00 Out	USB	(AB)
E11	12-11	0745	17378	Wed	344/00 Out	USB	(AB)
E11	12-11	0820	14611	Wed	133/00 Out	USB	(AB)
E11	12-11	0845	12067	Wed	711/00 Out	USB	(AB)
E11	12-11	0900	15915	Wed	533/00 Out	USB	(AB)
E11	12-11	0930	7469	Wed	277/00 Out	USB	(AB)
E11	12-11	1610	4505	Wed	391/00 Out	USB	(AB)
E11	12-11	1715	5082	Wed	977/00 Out	USB	(AB)
E11	13-11	0645	12385	Thu	512/00 Out	USB	(AB)
E11	13-11	0720	8180	Thu	438/00 Out	USB	(AB)
E11	13-11	0745	23031	Thu	221/00 Out	USB	(AB)
E11	13-11	0845	17378	Thu	155/00 Out	USB	(AB)
E11	13-11	0930	7469	Thu	275/00 Out	USB	(AB)
E11	13-11	1300	4909	Thu	311/00 Out	USB	(AB)
E11	13-11	1530	5409	Thu	266/00 Out	USB	(AB)

E11	14-11	0700	6804	Fri	573/00 Out	USB	(AB)
E11	14-11	0715	14975	Fri	635/00 Out	USB	(AB)
E11	14-11	0720	8180	Fri	431/00 Out	USB	(AB)
E11	14-11	0745	17378	Fri	343/00 Out	USB	(AB-POL)
E11	14-11	1000	9079	Fri	308/00 Out	USB	(AB)
E11	14-11	1715	5082	Fri	977/00 Out	USB	(AB)
E11	15-11	0700	5371	Sat	495/00 Out	USB	(AB)
E11	15-11	1430	13363	Sat	919/00 Out	USB	(AB)
E11	15-11	1605	4505	Sat	391/00 Out	USB	(AB)
E11	16-11	0700	5371	Sun	497/00 Out	USB	(AB)
E11	16-11	1605	5432	Sun	236/00 Out	USB	(AB)
E11	17-11	0645	14972	Mon	410/00 Out	USB	(AB)
E11	17-11	0830	23353	Mon	182/00 Out	USB	(AB)
E11	17-11	0845	12067	Mon	714/00 Out	USB	(AB)
E11	17-11	0900	15915	Mon	535/00 Out	USB	(AB)
E11	17-11	1045	14410	Mon	696/00 Out	USB	(AB)
E11	17-11	1300	4909	Mon	319/00 Out	USB	(AB-POL)
E11	17-11	1745	12924	Mon	248/00 Out	USB	(AB)
E11	17-11	1900	6849	Mon	644/00 Out	USB	(AB)
E11	18-11	0505	12153	Tue	337/00 Out	USB	(AB)
E11	18-11	0645	12385	Tue	511/00 Out	USB	(AB)
E11	18-11	0700	6804	Tue	577/00 Out	USB	(AB)
E11	18-11	0745	23031	Tue	224/00 Out	USB	(AB)
E11	18-11	0820	14611	Tue	130/00 Out	USB	(AB)
E11	18-11	0845	17378	Tue	154/00 Out	USB	(AB)
E11	18-11	1430	13363	Tue	No transmission	USB	(AB)
E11	18-11	1605	5432	Tue	230/00 Out	USB	(AB)
E11	19-11	0315	8102	Wed	258/00 Out	USB	(AB)
E11	19-11	0600	20286	Wed	948/00 Out	USB	(AB-POL)
E11	19-11	0645	14972	Wed	415/00 Out	USB	(AB)
E11	19-11	0715	20167	Wed	753/00 Out	USB	(AB)
E11	19-11	0745	17378	Wed	343/00 Out	USB	(AB)
E11	19-11	0820	14611	Wed	136/00 Out	USB	(AB)
E11	19-11	0845	12067	Wed	711/00 Out	USB	(AB)
E11	19-11	0900	15915	Wed	533/00 Out	USB	(AB)
E11	19-11	0930	7469	Wed	278/00 Out	USB	(AB)
E11	19-11	1045	14410	Wed	698/00 Out	USB	(AB)
E11	19-11	1205	11559	Wed	466/00 Out	USB	(AB)
E11	19-11	1715	5082	Wed	975/00 Out	USB	(AB)
E11	20-11	0645	12385	Thu	517/00 Out	USB	(AB)
E11	20-11	0720	8180	Thu	431/00 Out	USB	(AB)
E11	20-11	0745	23031	Thu	229/00 Out	USB	(AB)

E11	20-11	0845	17378	Thu	152/00 Out	USB	(AB)
E11	20-11	1300	4909	Thu	319/00 Out	USB	(AB-POL)
E11	20-11	1900	6849	Thu	647/00 Out	USB	(AB)
E11	20-11	2000	5082	Thu	522/00 Out	USB	(AB)
E11	21-11	0600	7850	Fri	358/00 Out	USB	(AB)
E11	21-11	0700	6804	Fri	576/00 Out	USB	(AB)
E11	21-11	0720	8180	Fri	431/00 Out	USB	(AB)
E11	21-11	0745	17378	Fri	349/00 Out	USB	(AB-POL)
E11	21-11	0830	23353	Fri	184/00 Out	USB	(AB-POL)
E11	21-11	1715	5082	Fri	No transmission	USB	(AB)
E11	21-11	1815	6849	Fri	No transmission	USB	(AB)
E11	21-11	1910	10487	Fri	No transmission	USB	(AB)
E11	22-11	0700	5371	Sat	No transmission	USB	(AB)
E11	22-11	1430	13363	Sat	No transmission	USB	(AB)
E11	22-11	1605	4505	Sat	No transmission	USB	(AB)
E11	22-11	1645	4909	Sat	No transmission	USB	(AB)
E11	23-11	0600	7850	Sun	No transmission	USB	(TM)
E11	23-11	0700	5371	Sun	No transmission	USB	(AB)
E11	23-11	1605	5432	Sun	No transmission	USB	(AB)
E11	23-11	1645	4909	Sun	No transmission	USB	(AB)
E11	23-11	1745	12924	Sun	No transmission	USB	(AB)
E11	23-11	1815	6849	Sun	No transmission	USB	(AB)
E11	24-11	0600	20286	Mon	No transmission	USB	(AB)
E11	24-11	0645	14972	Mon	No transmission	USB	(AB)
E11	24-11	0715	20160	Mon	No transmission	USB	(AB)
E11	24-11	0830	23353	Mon	No transmission	USB	(AB)
E11	24-11	0845	12067	Mon	716/00 off after a 46 secs	USB	(AB)
E11	24-11	0900	15915	Mon	No transmission	USB	(AB)
E11	24-11	1045	14410	Mon	692/00 Out	USB	(AB)
E11	24-11	1900	6849	Mon	644/00 Out	USB	(AB)
E11	25-11	0505	12153	Tue	Active, too weak to copy	USB	(AB)
E11	25-11	0645	12385	Tue	519/00 Out	USB	(AB)
E11	25-11	0715	14975	Tue	636/00 Out	USB	(AB)
E11	25-11	1000	9079	Tue	304/00 Out	USB	(AB)
E11	25-11	1205	11559	Tue	465/00 Out	USB	(AB)
E11	25-11	1430	13363	Tue	912/00 Out	USB	(AB)
E11	25-11	1605	5432	Tue	232/00 Out	USB	(AB)
E11	26-11	0315	8102	Wed	256/00 Out	USB	(AB)
E11	26-11	0600	20286	Wed	948/00 Out	USB	(AB-POL)
E11	26-11	0645	14972	Wed	416/00 Out	USB	(AB)
E11	26-11	0715	20167	Wed	757/00 Out	USB	(AB)
E11	26-11	0930	7469	Wed	270/00 Out	USB	(AB)

E11	26-11	1045	14410	Wed	698/00 Out	USB	(AB)
E11	26-11	1205	11559	Wed	469/00 Out	USB	(AB)
E11	26-11	1610	4505	Wed	390/00 Out	USB	(AB)
E11	27-11	0645	12385	Thu	510/00 Out	USB	(AB)
E11	27-11	0720	8180	Thu	432/00 Out	USB	(AB)
E11	27-11	0930	7469	Thu	273/00 Out	USB	(AB)
E11	27-11	1530	5409	Thu	261/00 Out	USB	(AB)
E11	27-11	1900	6849	Thu	647/00 Out	USB	(AB)
E11	27-11	2000	5082	Thu	525/00 Out	USB	(AB)
E11	28-11	0600	7850	Fri	354/00 Out	USB	(AB)
E11	28-11	0715	14975	Fri	637/00 Out	USB	(AB)
E11	28-11	0720	8180	Fri	439/00 Out	USB	(AB)
E11	28-11	0830	23353	Fri	182/00 Out	USB	(AB-POL)
E11	28-11	1000	9079	Fri	309/00 Out	USB	(AB)
E11	28-11	1815	6849	Fri	921/00 Out	USB	(AB)
E11	28-11	1910	10487	Fri	612/00 Out	USB	(AB)
E11	29-11	0700	5371	Sat	492/00 Out	USB	(AB)
E11	29-11	1430	13363	Sat	915/00 Out	USB	(AB)
E11	29-11	1605	4505	Sat	396/00 Out	USB	(AB)
E11	29-11	1645	4909	Sat	368/00 Out	USB	(AB)
E11	30-11	0600	7850	Sun	353/00 Out	USB	(TM)
E11	30-11	0700	5371	Sun	490/00 Out	USB	(AB)
E11	30-11	1605	5432	Sun	230/00 Out	USB	(AB)
E11	30-11	1645	4909	Sun	364/00 Out	USB	(AB)
E11	30-11	1815	6849	Sun	925/00 Out	USB	(AB)
E11	30-11	2000	5082	Sun	528/00 Out	USB	(AB)
E11a	1-11	0700	5371	Sat	495/39 Attention 40635 17259 83254 ... 00797 63510 09831 Attention (msg rptd) Out	USB	(AB)
E11a	2-11	0700	5371	Sun	495/39 Attention 40635 17259 83254 ... 00797 63510 09831 Attention (msg rptd) Out	USB	(AB)
E11a	4-11	0505	12153	Tue	300/33 (too weak to copy)	USB	(AB)
E11a	4-11	0645	12385	Tue	515/31 Attention 44806 41394 52018 ... 00644 33781 80716 Attention (msg rptd) Out	USB	(AB/HFD)
E11a	6-11	0645	12385	Thu	515/31 Attention 44806 41394 52018 ... 00644 33781 80716 Attention (msg rptd) Out	USB	(AB/HFD)
E11a	6-11	0720	8180	Thu	432/38 Attention 32175 44155 71480 ... 50864 08162 31505 Attention (msg rptd) Out	USB	(AB)
E11a	7-11	0720	8180	Fri	432/38 Attention 32175 44155 71480 ... 50864 08162 31505 Attention (msg rptd) Out	USB	(AB)
E11a	10-11	0645	14972	Mon	410/39 Attention 04524 29874 14916 ... 90937 24018 05651 Attention (msg rptd) Out	USB	(Subilo)
E11a	10-11	0830	23353	Mon	185/36 Attention 59388 93434 52356 ... 88126 69744 23412 Attention (msg rptd) Out	USB	(AB)
E11a	10-11	1045	14410	Mon	693/35 Attention 37708 64010 20122 ... 26636 80483 76090 Attention (msg rptd) Out	USB	(AB)
E11a	10-11	1900	6849	Mon	646/35 Attention 91133 04284 85073 ... 95198 37532 88167 Attention (msg rptd) Out	USB	(AB)
E11a	11-11	1205	11559	Tue	464/39 Attention 63295 25829 78666 ... 13689 32422 44637 Attention (msg rptd) Out	USB	(AB)
E11a	11-11	1205	11559	Tue	No transmission	USB	(AB)
E11a	12-11	1045	14410	Wed	693/35 Attention 37708 64010 20122 ... 26636 80483 76090 Attention (msg rptd) Out	USB	(AB)
E11a	12-11	1205	11559	Wed	464/39 Attention 63295 25829 78666 ... 13689 32422 44637 Attention (msg rptd) Out	USB	(AB)
E11a	13-11	1900	6849	Thu	646/35 Attention 91133 04284 85073 ... 95198 37532 88167 Attention (msg rptd) Out	USB	(AB)

E11a	13-11	2000	5082	Thu	525/36 Attention 62358 47677 18828 ... 92547 69839 04528 Attention (msg rptd) Out	USB	(AB)
E11a	14-11	0600	7850	Fri	355/33 Attention 79039 60990 17462 ... 86102 95303 19758 Attention (msg rptd) Out	USB	(AB)
E11a	14-11	0830	23353	Fri	185/36 Attention 59388 93434 52356 ... 88126 69744 23412 Attention (msg rptd) Out	USB	(AB-POL)
E11a	14-11	1815	6849	Fri	925/39 Attention 23417 45662 29429 ... 67347 97052 08453 Attention (msg rptd) Out	USB	(AB)
E11a	14-11	1910	10487	Fri	616/37 Attention 62092 24780 04566 ... 70817 19304 22499 Attention (msg rptd) Out	USB	(AB-POL)
E11a	15-11	1645	4909	Sat	360/39 Attention 51027 84848 44862 ... 10682 86972 32998 Attention (msg rptd) Out	USB	(AB)
E11a	16-11	0600	7850	Sun	355/33 Attention 79039 60990 17462 ... 86102 95303 19758 Attention (msg rptd) Out	USB	(TM)
E11a	16-11	1645	4909	Sun	360/39 Attention 51027 84848 44862 ... 10682 86972 32998 Attention (msg rptd) Out	USB	(AB)
E11a	16-11	1815	6849	Sun	925/39 Attention 23417 45662 29429 ... 67347 97052 08453 Attention (msg rptd) Out	USB	(AB)
E11a	16-11	1910	10487	Sun	616/37 Attention 62092 24780 04566 ... 70817 19304 22499 Attention (msg rptd) Out	USB	(AB)
E11a	16-11	2000	5082	Sun	525/36 Attention 62358 47677 18828 ... 92547 69839 04528 Attention (msg rptd) Out	USB	(AB)
E11a	17-11	0600	20286	Mon	941/28 Attention 24322 28887 35627 ... 52208 85294 51525 Attention (msg rptd) Out	USB	(AB)
E11a	17-11	0745	10213	Mon	267/35 Attention 37726 11010 27579 ... 00098 93473 31965 Attention (msg rptd) Out	USB	(AB)
E11a	18-11	0715	14975	Tue	633/33 Attention 85436 81777 86631 ... 69060 63204 50066 Attention (msg rptd) Out	USB	(AB)
E11a	18-11	1000	9079	Tue	306/34 Attention 14258 46756 37438 ... 13424 79974 87737 Attention (msg rptd) Out	USB	(AB)
E11a	19-11	1610	4505	Wed	No callup, Attention 66612 13476 09569 ... 60880 75094 34601 Attention (msg rptd) Out	USB	(AB)
E11a	20-11	0930	7469	Thu	No callup, Attention 92321 14235 90026 ... 06131 65774 20198 Attention (msg rptd) Out	USB	(AB)
E11a	20-11	1530	5409	Thu	268/35 Attention 84012 05867 13626 ... 58070 32987 03819 Attention (msg rptd) Out	USB	(AB)
E11a	21-11	0715	14975	Fri	633/33 Attention 85436 81777 86631 ... 69060 63204 50066 Attention (msg rptd) Out	USB	(AB)
E11a	21-11	1000	9079	Fri	306/34 Attention 14258 46756 37438 ... 13424 79974 87737 Attention (msg rptd) Out	USB	(AB)
E11a	23-11	1910	10487	Sun	No transmission	USB	(AB)
E11a	23-11	2000	5082	Sun	No transmission	USB	(AB)
E11a	24-11	0745	10213	Mon	No transmission	USB	(AB)
E11a	24-11	1300	4909	Mon	319/32 Attention 13198 65230 51436 ... 72598 29732 58904 Attention (msg rptd) Out	USB	(AB-POL)
E11a	24-11	1745	12924	Mon	248/33 Attention 25736 24667 67546 ... 63758 16593 94389 Attention (msg rptd) Out	USB	(AB-RUS)
E11a	25-11	0700	6804	Tue	579/31 Attention 05615 45000 11019 ... 37984 66560 78231 Attention (msg rptd) Out	USB	(AB)
E11a	25-11	0745	23031	Tue	224/30 Attention 18076 87947 49666 ... 69821 76174 60748 Attention (msg rptd) Out	USB	(AB)
E11a	25-11	0820	14611	Tue	134/40 Attention 08685 98016 13136 ... 35921 19149 96747 Attention (msg rptd) Out	USB	(AB)
E11a	25-11	0845	17378	Tue	157/28 Attention 02418 57607 17096 ... 83053 02483 17927 Attention (msg rptd) Out	USB	(AB)
E11a	26-11	0745	17378	Wed	341/35 Attention 04260 06500 12219 ... 12239 25374 24783 Attention (msg rptd) Out	USB	(AB)
E11a	26-11	0820	14611	Wed	139/40 Attention 08685 98016 13136 ... 35921 19149 96747 Attention (msg rptd) Out	USB	(AB)
E11a	26-11	0845	12067	Wed	712/35 Attention 00325 95506 65645 ... 80803 45803 07537 Attention (msg rptd) Out	USB	(AB)
E11a	26-11	0900	15915	Wed	539/35 Attention 96983 48473 78829 ... 89026 19301 82629 Attention (msg rptd) Out	USB	(AB)
E11a	26-11	1715	5082	Wed	971/37 Attention 86761 71079 58193 ... 37402 84034 27929 Attention (msg rptd) Out	USB	(AB)
E11a	27-11	0745	23031	Thu	220/30 Attention 67536 45138 09593 ... 98046 85541 31781 Attention (msg rptd) Out	USB	(AB)
E11a	27-11	0845	17378	Thu	155/28 Attention 56313 41832 59912 ... 30617 88531 79179 Attention (msg rptd) Out	USB	(AB)
E11a	27-11	1300	4909	Thu	316/32 Attention 70721 96806 12976 ... 60986 87256 38017 Attention (msg rptd) Out	USB	(AB-POL)
E11a	28-11	0700	6804	Fri	579/31 Attention 05615 45000 11019 ... 37984 66560 78231 Attention (msg rptd) Out	USB	(AB)
E11a	28-11	0745	17378	Fri	349/35 Attention 55236 39297 74714 ... 04297 97093 85889 Attention (msg rptd) Out	USB	(AB-POL)
E11a	28-11	1715	5082	Fri	975/37 Attention 85955 04218 10111 ... 62114 47196 24514 Attention (msg rptd) Out	USB	(AB)
EGY	1-11	1314	19981. 7	Sat	MFA Cairo clg RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)

EGY	1-11	1316	19880	Sat	99901: MFA CAiro wkg 66601: Egyptian embassy Washington	CODAN	(AB)
EGY	1-11	1346	18051.7	Sat	MFA Cairo clg RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	1-11	1348	18050	Sat	99901: MFA CAiro wkg 66601: Egyptian embassy Washington	CODAN	(AB)
EGY	2-11	1402	20056.7	Sun	MFA Cairo clg RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	2-11	1407	20055	Sun	99901: MFA CAiro wkg 66601: Egyptian embassy Washington	CODAN	(AB)
EGY	2-11	1426	19666	Sun	99901: MFA CAiro wkg 66601: Egyptian embassy Washington	CODAN	(AB)
EGY	2-11	1526	19667.7	Sun	MFA Cairo clg RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	2-11	1528	19666	Sun	99901: MFA CAiro wkg 66601: Egyptian embassy Washington	CODAN	(AB)
EGY	2-11	1629	19666	Sun	99904: MFA CAiro wkg 66601: Egyptian embassy Washington	CODAN	(AB)
EGY	2-11	1629	19667.7	Sun	MFA Cairo clg RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	2-11	1633	19667.7	Sun	MFA Cairo msg to RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	3-11	1318	18051.7	Mon	Egyptian diplo	SITOR-A 100/170	(AB)
EGY	3-11	1320	18050	Mon	Egyptian diplo	CODAN	(AB)
EGY	3-11	1348	18980	Mon	MFA Cairo msg to KKVl: Egyptian embassy Dar es Salaam	SITOR-A 100/170	(AB)
EGY	3-11	1401	19981.7	Mon	MFA Cairo clg RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	3-11	1402	19980	Mon	99901: MFA Cairo wkg 66601: Egyptian embassy Washington	CODAN	(AB)
EGY	20-11	1000	19100	Thu	MFA Cairo wkg 44403: Egyptian embassy Jakarta	CODAN 9001 75/1650	(EW)
EGY	26-11	1318	16334.7	Wed	MFA Cairo clg TVVX: Egyptian embassy Algiers	SITOR-A 100/170	(AB)
EGY	26-11	1319	16333	Wed	MFA Cairo wkg 00001: Egyptian embassy Algiers	CODAN	(AB)
F01	3-11	1015	12177	Mon	Message 72	FSK 200/500	(AB/HFD)
F01	3-11	1025	10671	Mon	Message 72		(AB/HFD)
F01	3-11	1035	8024	Mon	Message 72		(AB/HFD)
F01	4-11	1015	12177	Tue	Messages 73 and 74	FSK 200/500	(AB)
F01	4-11	1025	10671	Tue	Messages 73 and 74	FSK 200/500	(AB)
F01	4-11	1035	8024	Tue	Messages 73 and 74	FSK 200/500	(AB)
F01	5-11	1015	12177	Wed	Message 75	FSK 200/500	(AB)
F01	5-11	1025	10671	Wed	Message 75	FSK 200/500	(AB)
F01	5-11	1035	8024	Wed	Message 75	FSK 200/500	(AB)
F01	6-11	1015	12177	Thu	Messages 76 and 77	FSK 200/500	(AB)
F01	6-11	1025	10671	Thu	Messages 76 and 77	FSK 200/500	(AB)
F01	6-11	1035	8024	Thu	Messages 76 and 77	FSK 200/500	(AB)
F01	7-11	1015	12177	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	7-11	1025	10671	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	7-11	1035	8024	Fri	00000 +++++ +++++	FSK 200/500	(AB)

F01	10-11	1015	12177	Mon	Message 78	FSK 200/500	(AB)
F01	10-11	1025	10671	Mon	Message 78	FSK 200/500	(AB)
F01	10-11	1035	8024	Mon	Message 78	FSK 200/500	(AB)
F01	11-11	1015	12177	Tue	Messages 79 and 80	FSK 200/500	(AB)
F01	11-11	1025	10671	Tue	Messages 79 and 80	FSK 200/500	(AB)
F01	11-11	1035	8024	Tue	Messages 79 and 80	FSK 200/500	(AB)
F01	12-11	1015	12177	Wed	Message 81	FSK 200/500	(AB)
F01	12-11	1025	10671	Wed	Message 81	FSK 200/500	(AB)
F01	12-11	1035	8024	Wed	Message 81	FSK 200/500	(AB)
F01	13-11	1015	12177	Thu	Messages 82 and 83	FSK 200/500	(AB)
F01	13-11	1025	10671	Thu	Messages 82 and 83	FSK 200/500	(AB)
F01	13-11	1035	8024	Thu	Messages 82 and 83	FSK 200/500	(AB)
F01	14-11	1015	12177	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	14-11	1025	10671	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	14-11	1035	8024	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	17-11	1015	12177	Mon	Message 84	FSK 200/500	(AB)
F01	17-11	1025	10671	Mon	Message 84	FSK 200/500	(AB)
F01	17-11	1035	8024	Mon	Message 84	FSK 200/500	(AB)
F01	18-11	1015	12177	Tue	Messages 85 and 86	FSK 200/500	(AB)
F01	18-11	1025	10671	Tue	Messages 85 and 86	FSK 200/500	(AB)
F01	18-11	1035	8024	Tue	Messages 85 and 86	FSK 200/500	(AB)
F01	19-11	1015	12177	Wed	Message 87	FSK 200/500	(AB)
F01	19-11	1025	10671	Wed	Message 87	FSK 200/500	(AB)
F01	19-11	1035	8024	Wed	Message 87	FSK 200/500	(AB)
F01	20-11	1015	12177	Thu	Messages 88 and 89	FSK 200/500	(AB)
F01	20-11	1025	10671	Thu	Messages 88 and 89	FSK 200/500	(AB)
F01	20-11	1035	8024	Thu	Messages 88 and 89	FSK 200/500	(AB)
F01	21-11	1015	12177	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	21-11	1025	10671	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	21-11	1035	8024	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	24-11	1015	12177	Mon	Message 90	FSK 200/500	(AB)
F01	24-11	1025	10671	Mon	Message 90	FSK 200/500	(AB)
F01	24-11	1035	8024	Mon	Message 90	FSK 200/500	(AB)
F01	25-11	1015	12177	Tue	Messages 91 and 92	FSK 200/500	(AB)
F01	25-11	1025	10671	Tue	Messages 91 and 92	FSK 200/500	(AB)
F01	25-11	1035	8024	Tue	Messages 91 and 92	FSK 200/500	(AB)
F01	26-11	1015	12177	Wed	Message 93	FSK 200/500	(AB)
F01	26-11	1025	10671	Wed	Message 93	FSK 200/500	(AB)
F01	26-11	1035	8024	Wed	Message 93	FSK 200/500	(AB)
F01	27-11	1015	12177	Thu	Messages 94 and 95	FSK 200/500	(AB)
F01	27-11	1025	10671	Thu	Messages 94 and 95	FSK 200/500	(AB)
F01	27-11	1035	8024	Thu	Messages 94 and 95	FSK 200/500	(AB)

F01	28-11	1015	12177	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	28-11	1025	10671	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	28-11	1035	8024	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F02	13-11	1423	14848	Thu	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	13-11	1434	18257	Thu	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	13-11	1435	14848	Thu	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	13-11	1437	11160	Thu	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	13-11	1444	11160	Thu	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	13-11	1450	18257	Thu	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	13-11	1452	14823	Thu	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	13-11	1459	14823	Thu	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	18-11	0746	14983	Tue	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	18-11	0800	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	19-11	1036	13391	Wed	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	19-11	1041	13391	Wed	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	19-11	1050	13391	Wed	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F03j	3-11	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-11	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-11	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-11	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-11	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-11	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-11	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-11	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-11	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	5-11	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-11	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	6-11	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-11	0615	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-11	0620	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-11	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-11	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-11	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-11	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-11	0615	21854	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-11	0620	21854	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-11	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-11	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-11	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-11	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-11	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-11	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	13-11	0700	9049	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-11	0700	9049	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-11	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	13-11	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-11	0700	9049	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	14-11	0700	9049	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-11	0615	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-11	0620	21854	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-11	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-11	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-11	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-11	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-11	0615	21854	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-11	0620	21854	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-11	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-11	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-11	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-11	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-11	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-11	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-11	0700	9049	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-11	0700	9049	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-11	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	20-11	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-11	0700	9049	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	21-11	0700	9049	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-11	0615	21854	Mon	No transmission	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-11	0620	21854	Mon	No transmission	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-11	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-11	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-11	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-11	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-11	0615	21854	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-11	0620	21854	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-11	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-11	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-11	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-11	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-11	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-11	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-11	0700	9049	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-11	0700	9049	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	27-11	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	27-11	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-11	0700	9049	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	28-11	0700	9049	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03I	3-11	0810	26117	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-11	0815	26117	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-11	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-11	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	3-11	1200	7727	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	3-11	1205	7727	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	4-11	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	4-11	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	4-11	0945	6940	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	4-11	0950	6940	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	5-11	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	5-11	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	6-11	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	6-11	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	6-11	1200	7727	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	6-11	1205	7727	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	7-11	0810	26117	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	7-11	0815	26117	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	7-11	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-11	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	7-11	0945	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	7-11	0950	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	10-11	0630	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	10-11	0635	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	10-11	0810	26117	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-11	0815	26117	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-11	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-11	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	10-11	1200	7727	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	10-11	1205	7727	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	11-11	0810	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	11-11	0815	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	11-11	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	11-11	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	11-11	0945	6940	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	11-11	0950	6940	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-11	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-11	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)

F03I	13-11	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	13-11	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	13-11	1200	7727	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	13-11	1205	7727	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	14-11	0810	26117	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	14-11	0815	26117	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	14-11	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-11	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	14-11	0945	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	14-11	0950	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-11	0630	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-11	0635	13424	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-11	0810	26117	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-11	0815	26117	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-11	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-11	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	17-11	1200	7727	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-11	1205	7727	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-11	0810	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-11	0815	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-11	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-11	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-11	0945	6940	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-11	0950	6940	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-11	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-11	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-11	0615	6986	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-11	0620	6986	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-11	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-11	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-11	1200	7727	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	20-11	1205	7727	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	21-11	0810	26117	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	21-11	0815	26117	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	21-11	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-11	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	21-11	0945	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	21-11	0950	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	24-11	0630	13424	Mon	No transmission	QPSK 100Bd/464bp	(AB)
F03I	24-11	0635	13424	Mon	No transmission	QPSK 100Bd/464bp	(AB)
F03I	24-11	0810	26117	Mon	No transmission	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-11	0815	26117	Mon	No transmission	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	24-11	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-11	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	24-11	1200	7727	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	24-11	1205	7727	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-11	0615	6986	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-11	0620	6986	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-11	0810	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-11	0815	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-11	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-11	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-11	0945	6940	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-11	0950	6940	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-11	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-11	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-11	0615	6986	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-11	0620	6986	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-11	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-11	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-11	1200	7727	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	27-11	1205	7727	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	28-11	0810	26117	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	28-11	0815	26117	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB-POL)
F03I	28-11	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-11	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	28-11	0945	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	28-11	0950	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F06	2-11	1530	14475	Sun	11166 10053 74523 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-11	1540	13521	Sun	11166 10053 74523 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-11	1550	10196	Sun	11166 10053 74523 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	3-11	0500	8174	Mon	11166 70059 74523 03001 00049 00000 00000 00000 00000	FSK 200/500	(AB)
F06	3-11	0510	7316	Mon	11166 70059 74523 03001 00049 00000 00000 00000 00000	FSK 200/500	(AB)
F06	3-11	0520	5929	Mon	11166 70059 74523 03001 00049 00000 00000 00000 00000	FSK 200/500	(AB)
F06	3-11	0800	12208	Mon	11100 00000 25147 01015 02139	FSK 200/1000	(AB)
F06	3-11	0810	10191	Mon	11100 00000 25147 01015 02139	FSK 200/1000	(AB)
F06	3-11	0820	8014	Mon	11100 00000 25147 01015 02139	FSK 200/1000	(AB)
F06	4-11	0030	10523	Tue	11166 60070 94621 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-11	0040	8131	Tue	11166 60070 94621 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-11	0050	7765	Tue	11166 60070 94621 04001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-11	0700	12177	Tue	11166 70202 34682 01082 01059 and 11166 70202 95174 01083 02099	FSK 200/1000	(AB)
F06	4-11	0710	10156	Tue	11166 70202 34682 01082 01059 and 11166 70202 95174 01083 02099	FSK 200/1000	(AB)
F06	4-11	0720	8138	Tue	11166 70202 34682 01082 01059 and 11166 70202 95174 01083 02099	FSK 200/1000	(AB)
F06	4-11	0800	12208	Tue	11100 00000 25147 01015 02139	FSK 200/1000	(AB)

F06	4-11	0810	10191	Tue	11100 00000 25147 01015 02139	FSK 200/1000	(AB)
F06	4-11	0820	8014	Tue	11100 00000 25147 01015 02139	FSK 200/1000	(AB)
F06	4-11	1200	10231	Tue	11166 70202 34682 01082 01059 and 11166 70202 95174 01083 02099	FSK 200/1000	(AB)
F06	4-11	1210	8082	Tue	11166 70202 34682 01082 01059 and 11166 70202 95174 01083 02099	FSK 200/1000	(AB)
F06	4-11	1220	6869	Tue	11166 70202 34682 01082 01059 and 11166 70202 95174 01083 02099	FSK 200/1000	(AB)
F06	4-11	1650	13469	Tue	11166 10053 25813 04078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-11	1700	11643	Tue	11166 10053 25813 04078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-11	1710	9486	Tue	11166 10053 25813 04078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6-11	0700	12177	Thu	11166 70202 26935 05085 02499 and 11166 70202 90124 05086 01039	FSK 200/1000	(AB)
F06	6-11	0710	10156	Thu	11166 70202 26935 05085 02499 and 11166 70202 90124 05086 01039	FSK 200/1000	(AB)
F06	6-11	0720	8138	Thu	11166 70202 26935 05085 02499 and 11166 70202 90124 05086 01039	FSK 200/1000	(AB)
F06	6-11	1200	10231	Thu	11166 70202 26935 05085 02499 and 11166 70202 90124 05086 01039	FSK 200/1000	(AB)
F06	6-11	1210	8082	Thu	11166 70202 26935 05085 02499 and 11166 70202 90124 05086 01039	FSK 200/1000	(AB)
F06	6-11	1220	6869	Thu	11166 70202 26935 05085 02499 and 11166 70202 90124 05086 01039	FSK 200/1000	(AB)
F06	6-11	1330	17465	Thu	11166 80214 61483 06082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6-11	1340	14858	Thu	11166 80214 61483 06082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6-11	1350	11631	Thu	11166 80214 61483 06082 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-11	0700	12177	Fri	11166 70202 26598 07056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-11	0710	10156	Fri	11166 70202 26598 07056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-11	0720	8138	Fri	11166 70202 26598 07056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-11	1530	14475	Sun	11166 10053 97531 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-11	1540	13521	Sun	11166 10053 97531 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-11	1550	10196	Sun	11166 10053 97531 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10-11	0800	12208	Mon	11100 00000 59234 07016 01839	FSK 200/1000	(AB)
F06	10-11	0810	10191	Mon	11100 00000 59234 07016 01839	FSK 200/1000	(AB)
F06	10-11	0820	8014	Mon	11100 00000 59234 07016 01839	FSK 200/1000	(AB)
F06	11-11	0030	10523	Tue	11166 60070 32147 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-11	0040	8131	Tue	11166 60070 32147 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-11	0050	7765	Tue	11166 60070 32147 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-11	0700	12177	Tue	11166 70202 36250 10088 01779 and 11166 70202 96142 10089 02119	FSK 200/1000	(AB)
F06	11-11	0710	10156	Tue	11166 70202 36250 10088 01779 and 11166 70202 96142 10089 02119	FSK 200/1000	(AB)
F06	11-11	0720	8138	Tue	11166 70202 36250 10088 01779 and 11166 70202 96142 10089 02119	FSK 200/1000	(AB)
F06	11-11	0800	12208	Tue	11100 00000 59234 07016 01839	FSK 200/1000	(AB)
F06	11-11	0810	10191	Tue	11100 00000 59234 07016 01839	FSK 200/1000	(AB)
F06	11-11	0820	8014	Tue	11100 00000 59234 07016 01839	FSK 200/1000	(AB)
F06	11-11	1200	10231	Tue	11166 70202 36250 10088 01779 and 11166 70202 96142 10089 02119	FSK 200/1000	(AB)
F06	11-11	1210	8082	Tue	11166 70202 36250 10088 01779 and 11166 70202 96142 10089 02119	FSK 200/1000	(AB)
F06	11-11	1220	6869	Tue	11166 70202 36250 10088 01779 and 11166 70202 96142 10089 02119	FSK 200/1000	(AB)
F06	11-11	1650	13469	Tue	11166 10053 13579 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-11	1700	11643	Tue	11166 10053 13579 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-11	1710	9486	Tue	11166 10053 13579 11001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-11	0700	12177	Thu	11166 70202 85324 12091 01639 and 11166 70202 63214 12092 02039	FSK 200/1000	(AB)

F06	13-11	0710	10156	Thu	11166 70202 85324 12091 01639 and 11166 70202 63214 12092 02039	FSK 200/1000	(AB)
F06	13-11	0720	8138	Thu	11166 70202 85324 12091 01639 and 11166 70202 63214 12092 02039	FSK 200/1000	(AB)
F06	13-11	1200	10231	Thu	11166 70202 85324 12091 01639 and 11166 70202 63214 12092 02039	FSK 200/1000	(AB)
F06	13-11	1210	8082	Thu	11166 70202 85324 12091 01639 and 11166 70202 63214 12092 02039	FSK 200/1000	(AB)
F06	13-11	1220	6869	Thu	11166 70202 85324 12091 01639 and 11166 70202 63214 12092 02039	FSK 200/1000	(AB)
F06	13-11	1330	17465	Thu	11166 80214 15487 13022 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-11	1340	14858	Thu	11166 80214 15487 13022 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	13-11	1350	11631	Thu	11166 80214 15487 13022 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14-11	0700	12177	Fri	No transmission	FSK 200/1000	(AB)
F06	14-11	0710	10156	Fri	No transmission	FSK 200/1000	(AB)
F06	14-11	0720	8138	Fri	No transmission	FSK 200/1000	(AB)
F06	16-11	1530	14475	Sun	11166 10053 95184 16001 00049 00000 00000 000000 00000	FSK 200/1000	(AB)
F06	16-11	1540	13521	Sun	11166 10053 95184 16001 00049 00000 00000 000000 00000	FSK 200/1000	(AB)
F06	16-11	1550	10196	Sun	11166 10053 95184 16001 00049 00000 00000 000000 00000	FSK 200/1000	(AB)
F06	17-11	0500	8174	Mon	11166 70059 95184 17001 00049 00000 00000 00000 00000	FSK 200/500	(AB)
F06	17-11	0510	7316	Mon	11166 70059 95184 17001 00049 00000 00000 00000 00000	FSK 200/500	(AB)
F06	17-11	0520	5929	Mon	11166 70059 95184 17001 00049 00000 00000 00000 00000	FSK 200/500	(AB)
F06	17-11	0800	12208	Mon	11100 00000 65378 14017 00599 and 11100 00000 48057 14018 01479	FSK 200/1000	(AB)
F06	17-11	0810	10191	Mon	11100 00000 65378 14017 00599 and 11100 00000 48057 14018 01479	FSK 200/1000	(AB)
F06	17-11	0820	8014	Mon	11100 00000 65378 14017 00599 and 11100 00000 48057 14018 01479	FSK 200/1000	(AB)
F06	18-11	0030	10523	Tue	11166 60070 13579 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-11	0040	8131	Tue	11166 60070 13579 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-11	0050	7765	Tue	11166 60070 13579 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-11	0700	12177	Tue	No transmission	FSK 200/1000	(AB)
F06	18-11	0710	10156	Tue	No transmission	FSK 200/1000	(AB)
F06	18-11	0720	8138	Tue	No transmission	FSK 200/1000	(AB)
F06	18-11	0800	12208	Tue	11100 00000 65378 14017 00599 and 11100 00000 48057 14018 01479	FSK 200/1000	(AB)
F06	18-11	0810	10191	Tue	11100 00000 65378 14017 00599 and 11100 00000 48057 14018 01479	FSK 200/1000	(AB)
F06	18-11	0820	8014	Tue	11100 00000 65378 14017 00599 and 11100 00000 48057 14018 01479	FSK 200/1000	(AB)
F06	18-11	1100	13532	Tue	11100 00000 56914 17028 00049 24863 12584 80943 00000	FSK 200/1000	(PY)
F06	18-11	1115	11123	Tue	11100 00000 56914 17028 00049 24863 12584 80943 00000	FSK 200/1000	(PY)
F06	18-11	1130	9426	Tue	11100 00000 56914 17028 00049 24863 12584 80943 00000	FSK 200/1000	(PY)
F06	18-11	1200	10231	Tue	No transmission	FSK 200/1000	(AB)
F06	18-11	1210	8082	Tue	No transmission	FSK 200/1000	(AB)
F06	18-11	1220	6869	Tue	No transmission	FSK 200/1000	(AB)
F06	18-11	1600	11122	Tue	11100 00000 56914 17028 00049 24863 12584 80943 00000	FSK 200/1000	(PY)
F06	18-11	1615	9064	Tue	11100 00000 56914 17028 00049 24863 12584 80943 00000	FSK 200/1000	(PY)
F06	18-11	1630	6923	Tue	11100 00000 56914 17028 00049 24863 12584 80943 00000	FSK 200/1000	(PY)
F06	18-11	1650	13469	Tue	11166 10053 25813 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-11	1700	11643	Tue	11166 10053 25813 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-11	1710	9486	Tue	11166 10053 25813 18001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-11	1100	13532	Wed	11100 00000 89562 19056 00049 00000 00000 00000 00000	FSK 200/1000	(PY)

F06	19-11	1110	11123	Wed	11100 00000 89562 19056 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	19-11	1120	9426	Wed	11100 00000 89562 19056 00049 00000 00000 00000 00000	FSK 200/1000	(PY)
F06	19-11	1600	11122	Wed	No transmission	FSK 200/1000	(PY)
F06	19-11	1610	9064	Wed	No transmission	FSK 200/1000	(PY)
F06	19-11	1620	6923	Wed	No transmission	FSK 200/1000	(PY)
F06	20-11	0700	12177	Thu	No transmission	FSK 200/1000	(AB)
F06	20-11	0710	10156	Thu	No transmission	FSK 200/1000	(AB)
F06	20-11	0720	8138	Thu	No transmission	FSK 200/1000	(AB)
F06	20-11	1200	10231	Thu	No transmission	FSK 200/1000	(AB)
F06	20-11	1210	8082	Thu	No transmission	FSK 200/1000	(AB)
F06	20-11	1220	6869	Thu	No transmission	FSK 200/1000	(AB)
F06	20-11	1330	17465	Thu	11166 80214 21478 19055 00049 00000 00000 00000 00000 (wrong date)	FSK 200/1000	(AB)
F06	20-11	1340	14858	Thu	11166 80214 21478 19055 00049 00000 00000 00000 00000 (wrong date)	FSK 200/1000	(AB)
F06	20-11	1350	11631	Thu	11166 80214 21478 19055 00049 00000 00000 00000 00000 (wrong date)	FSK 200/1000	(AB)
F06	20-11	1400	11136	Thu	11166 70202 24361 19027 00049 55555 55555 55555 00000	FSK 200/1000	(PY)
F06	20-11	1410	9947	Thu	11166 70202 24361 19027 00049 55555 55555 55555 00000	FSK 200/1000	(PY)
F06	20-11	1420	6785	Thu	11166 70202 24361 19027 00049 55555 55555 55555 00000	FSK 200/1000	(PY)
F06	21-11	0700	12177	Fri	No transmission	FSK 200/1000	(AB)
F06	21-11	0710	10156	Fri	No transmission	FSK 200/1000	(AB)
F06	21-11	0720	8138	Fri	No transmission	FSK 200/1000	(AB)
F06	23-11	1530	14475	Sun	11166 10053 78531 23074 01669	FSK 200/1000	(AB/PY)
F06	23-11	1540	13521	Sun	11166 10053 78531 23074 01669	FSK 200/1000	(AB/PY)
F06	23-11	1550	10196	Sun	11166 10053 78531 23074 01669	FSK 200/1000	(AB/PY)
F06	24-11	0800	12208	Mon	11100 00000 36952 21019 00799	FSK 200/1000	(AB)
F06	24-11	0810	10191	Mon	11100 00000 36952 21019 00799	FSK 200/1000	(AB)
F06	24-11	0820	8014	Mon	11100 00000 36952 21019 00799	FSK 200/1000	(AB)
F06	24-11	1530	14475	Mon	11166 10053 78531 23074 01669	FSK 200/1000	(AB/PY)
F06	24-11	1540	13521	Mon	11166 10053 78531 23074 01669	FSK 200/1000	(AB/PY)
F06	24-11	1550	10196	Mon	11166 10053 78531 23074 01669	FSK 200/1000	(AB/PY)
F06	25-11	0030	10523	Tue	11166 60070 25813 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-11	0040	8131	Tue	11166 60070 25813 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-11	0050	7765	Tue	11166 60070 25813 25001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-11	0700	12177	Tue	11166 70202 34681 24097 01059 and 11166 70202 96374 24098 02339	FSK 200/1000	(AB)
F06	25-11	0710	10156	Tue	11166 70202 34681 24097 01059 and 11166 70202 96374 24098 02339	FSK 200/1000	(AB)
F06	25-11	0720	8138	Tue	11166 70202 34681 24097 01059 and 11166 70202 96374 24098 02339	FSK 200/1000	(AB)
F06	25-11	0800	12208	Tue	11100 00000 36952 21019 00799	FSK 200/1000	(AB)
F06	25-11	0810	10191	Tue	11100 00000 36952 21019 00799	FSK 200/1000	(AB)
F06	25-11	0820	8014	Tue	11100 00000 36952 21019 00799	FSK 200/1000	(AB)
F06	25-11	1200	10231	Tue	11166 70202 34681 24097 01059 and 11166 70202 96374 24098 02339	FSK 200/1000	(AB)
F06	25-11	1210	8082	Tue	11166 70202 34681 24097 01059 and 11166 70202 96374 24098 02339	FSK 200/1000	(AB)
F06	25-11	1220	6869	Tue	11166 70202 34681 24097 01059 and 11166 70202 96374 24098 02339	FSK 200/1000	(AB)
F06	25-11	1650	13469	Tue	11166 10053 48763 23078 01689	FSK 200/1000	(AB/PY)

F06	25-11	1700	11643	Tue	11166 10053 48763 23078 01689	FSK 200/1000	(AB/PY)
F06	25-11	1710	9486	Tue	11166 10053 48763 23078 01689	FSK 200/1000	(AB/PY)
F06	26-11	1100	13532	Wed	11100 00000 26914 25016 00049 03191 10575 14119 00000	FSK 200/1000	(PY)
F06	26-11	1115	11123	Wed	11100 00000 26914 25016 00049 03191 10575 14119 00000	FSK 200/1000	(PY)
F06	26-11	1130	9426	Wed	11100 00000 26914 25016 00049 03191 10575 14119 00000	FSK 200/1000	(PY)
F06	26-11	1600	11122	Wed	11100 00000 26914 25016 00049 03191 10575 14119 00000	FSK 200/1000	(PY)
F06	26-11	1615	9064	Wed	11100 00000 26914 25016 00049 03191 10575 14119 00000	FSK 200/1000	(PY)
F06	26-11	1630	6923	Wed	11100 00000 26914 25016 00049 03191 10575 14119 00000	FSK 200/1000	(PY)
F06	26-11	1650	13469	Wed	11166 10053 48763 23078 01689	FSK 200/1000	(AB/PY)
F06	26-11	1700	11643	Wed	11166 10053 48763 23078 01689	FSK 200/1000	(AB/PY)
F06	26-11	1710	9486	Wed	11166 10053 48763 23078 01689	FSK 200/1000	(AB/PY)
F06	27-11	0700	12177	Thu	11166 70202 62145 26001 01759 and 11166 70202 62147 26002 01839	FSK 200/1000	(AB)
F06	27-11	0710	10156	Thu	11166 70202 62145 26001 01759 and 11166 70202 62147 26002 01839	FSK 200/1000	(AB)
F06	27-11	0720	8138	Thu	11166 70202 62145 26001 01759 and 11166 70202 62147 26002 01839	FSK 200/1000	(AB)
F06	27-11	0830	5913	Thu	11100 00000 13467 27025 02529 interruptions in signal and modulation	FSK 200/1000	(PY)
F06	27-11	0840	7992	Thu	11100 00000 13467 27025 02529 interruptions in signal and modulation	FSK 200/1000	(PY)
F06	27-11	0850	10687	Thu	11100 00000 13467 27025 02529 interruptions in signal and modulation	FSK 200/1000	(PY)
F06	27-11	1200	10231	Thu	11166 70202 62145 26001 01759 and 11166 70202 62147 26002 01839	FSK 200/1000	(AB)
F06	27-11	1210	8082	Thu	11166 70202 62145 26001 01759 and 11166 70202 62147 26002 01839	FSK 200/1000	(AB)
F06	27-11	1220	6869	Thu	11166 70202 62145 26001 01759 and 11166 70202 62147 26002 01839	FSK 200/1000	(AB)
F06	27-11	1330	17465	Thu	11166 80214 18452 26056 00049 00000 00000 00000 00000 (wrong date)	FSK 200/1000	(AB)
F06	27-11	1340	14858	Thu	11166 80214 18452 26056 00049 00000 00000 00000 00000 (wrong date)	FSK 200/1000	(AB)
F06	27-11	1350	11631	Thu	11166 80214 18452 26056 00049 00000 00000 00000 00000 (wrong date)	FSK 200/1000	(AB)
F06	28-11	0700	12177	Fri	11166 70202 18742 28025 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-11	0710	10156	Fri	11166 70202 18742 28025 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-11	0720	8138	Fri	11166 70202 18742 28025 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-11	1530	14475	Sun	11166 10053 13579 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-11	1540	13521	Sun	11166 10053 13579 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-11	1550	10196	Sun	11166 10053 13579 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06a	1-11	0600	13574	Sat	File 44047 (binary contents)	FSK 200/1000	(PY)
F06a	1-11	0615	12142	Sat	File 44047 (binary contents)	FSK 200/1000	(PY)
F06a	1-11	0630	11456	Sat	File 44047 (binary contents)	FSK 200/1000	(PY)
F06a	3-11	0700	12177	Mon	File 44481 (binary contents)	FSK 200/1000	(AB)
F06a	3-11	0715	10156	Mon	File 44481 (binary contents)	FSK 200/1000	(AB)
F06a	3-11	0730	8138	Mon	File 44481 (binary contents)	FSK 200/1000	(AB)
F06a	3-11	1200	10231	Mon	File 44481 (binary contents)	FSK 200/1000	(AB)
F06a	3-11	1215	8082	Mon	File 44481 (binary contents)	FSK 200/1000	(AB)
F06a	3-11	1230	6869	Mon	File 44481 (binary contents)	FSK 200/1000	(AB)
F06a	4-11	1100	13532	Tue	File 44452 (1586 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	4-11	1115	11123	Tue	File 44452 (1586 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	4-11	1130	9426	Tue	File 44452 (1586 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	4-11	1600	11122	Tue	File 44452 (1586 bytes, binary contents, empty text header)	FSK 200/1000	(PY)

F06a	4-11	1615	9064	Tue	File 44452 (1586 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	4-11	1630	6923	Tue	File 44452 (1586 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	5-11	0600	16274	Wed	File 47467 (binary contents)	FSK 200/1000	(AB)
F06a	5-11	0615	18677	Wed	File 47467 (binary contents)	FSK 200/1000	(AB)
F06a	5-11	0630	20889	Wed	File 47467 (binary contents)	FSK 200/1000	(AB)
F06a	5-11	0700	12177	Wed	File 44485 (binary contents)	FSK 200/1000	(AB)
F06a	5-11	0715	10156	Wed	File 44485 (binary contents)	FSK 200/1000	(AB)
F06a	5-11	0730	8138	Wed	File 44485 (binary contents)	FSK 200/1000	(AB)
F06a	5-11	1100	13532	Wed	File 44453 (1951 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	5-11	1115	11123	Wed	File 44453 (1951 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	5-11	1130	9426	Wed	File 44453 (1951 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	5-11	1200	10231	Wed	File 44484 (binary contents)	FSK 200/1000	(AB)
F06a	5-11	1215	8082	Wed	File 44484 (binary contents)	FSK 200/1000	(AB)
F06a	5-11	1230	6869	Wed	File 44484 (binary contents)	FSK 200/1000	(AB)
F06a	5-11	1600	11122	Wed	File 44453 (1951 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	5-11	1615	9064	Wed	File 44453 (1951 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	5-11	1630	6923	Wed	File 44453 (1951 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	6-11	0600	16274	Thu	File 47467 (binary contents)	FSK 200/1000	(AB)
F06a	6-11	0615	18677	Thu	File 47467 (binary contents)	FSK 200/1000	(AB)
F06a	6-11	0630	20889	Thu	File 47467 (binary contents)	FSK 200/1000	(AB)
F06a	6-11	0730	11168	Thu	File 04403 (1040 bytes, binary contents)	FSK 200/1000	(PY)
F06a	6-11	0745	7727	Thu	File 04403 (1040 bytes, binary contents)	FSK 200/1000	(PY)
F06a	6-11	0800	5387	Thu	File 04403 (1040 bytes, binary contents)	FSK 200/1000	(PY)
F06a	7-11	1400	11145	Fri	File 04404 (1013 bytes, binary contents)	FSK 200/1000	(PY)
F06a	7-11	1415	7467	Fri	File 04404 (1013 bytes, binary contents)	FSK 200/1000	(PY)
F06a	7-11	1430	5257	Fri	File 04404 (1013 bytes, binary contents)	FSK 200/1000	(PY)
F06a	8-11	1400	11145	Sat	File 04405 (1143 bytes, binary contents)	FSK 200/1000	(PY)
F06a	8-11	1415	7467	Sat	File 04405 (1143 bytes, binary contents)	FSK 200/1000	(PY)
F06a	8-11	1430	5257	Sat	File 04405 (1143 bytes, binary contents)	FSK 200/1000	(PY)
F06a	8-11	1600	23467	Sat	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	8-11	1615	19670	Sat	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	8-11	1630	18043	Sat	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	9-11	1600	19177	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-IRL)
F06a	9-11	1615	18493	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-IRL)
F06a	9-11	1630	17517	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-IRL)
F06a	10-11	0700	12177	Mon	File 44487 (binary contents)	FSK 200/1000	(AB)
F06a	10-11	0715	10156	Mon	File 44487 (binary contents)	FSK 200/1000	(AB)
F06a	10-11	0730	8138	Mon	File 44487 (binary contents)	FSK 200/1000	(AB)
F06a	10-11	1200	10231	Mon	File 44487 (binary contents)	FSK 200/1000	(AB)
F06a	10-11	1215	8082	Mon	File 44487 (binary contents)	FSK 200/1000	(AB)
F06a	10-11	1230	6869	Mon	File 44487 (binary contents)	FSK 200/1000	(AB)
F06a	11-11	1100	13532	Tue	File 44454 (956 bytes, binary contents, empty text header)	FSK 200/1000	(PY)

F06a	11-11	1115	11123	Tue	File 44454 (956 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	11-11	1130	9426	Tue	File 44454 (956 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	11-11	1600	11122	Tue	File 44454 (956 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	11-11	1615	9064	Tue	File 44454 (956 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	11-11	1630	6923	Tue	File 44454 (956 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	12-11	0600	16274	Wed	File 44668 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	12-11	0615	18677	Wed	File 44668 (binary contents)	FSK 200/1000	(AB-ARS)
F06a	12-11	0630	20889	Wed	File 44668 (binary contents)	FSK 200/1000	(AB-ARS)
F06a	12-11	0700	12177	Wed	File 44490 (binary contents)	FSK 200/1000	(AB)
F06a	12-11	0715	10156	Wed	File 44490 (binary contents)	FSK 200/1000	(AB)
F06a	12-11	0730	8138	Wed	File 44490 (binary contents)	FSK 200/1000	(AB)
F06a	12-11	1100	13532	Wed	File 44455 (1742 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	12-11	1115	11123	Wed	File 44455 (1742 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	12-11	1130	9426	Wed	File 44455 (1742 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	12-11	1200	10231	Wed	File 44490 (binary contents)	FSK 200/1000	(AB)
F06a	12-11	1215	8082	Wed	File 44490 (binary contents)	FSK 200/1000	(AB)
F06a	12-11	1230	6869	Wed	File 44490 (binary contents)	FSK 200/1000	(AB)
F06a	12-11	1600	11122	Wed	File 44455 (1742 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	12-11	1615	9064	Wed	File 44455 (1742 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	12-11	1630	6923	Wed	File 44455 (1742 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	13-11	0600	16274	Thu	File 44668 (binary contents)	FSK 200/1000	(AB)
F06a	13-11	0615	18677	Thu	File 44668 (binary contents)	FSK 200/1000	(AB-ARS)
F06a	13-11	0630	20889	Thu	File 44668 (binary contents)	FSK 200/1000	(AB-ARS)
F06a	13-11	1300	14471	Thu	Files 04406 (binary contents) and 04407 (binary contents)	FSK 200/1000	(AB/PY)
F06a	13-11	1315	11136	Thu	Files 04406 (binary contents) and 04407 (binary contents)	FSK 200/1000	(AB/PY)
F06a	13-11	1330	6785	Thu	Files 04406 (682 bytes binary contents) and 04407 (887 bytes, binary contents)	FSK 200/1000	(PY)
F06a	13-11	1400	13461	Thu	Files 04406 (binary contents) and 04407 (binary contents)	FSK 200/1000	(AB/PY)
F06a	13-11	1415	10251	Thu	Files 04406 (binary contents) and 04407 (binary contents)	FSK 200/1000	(AB/PY)
F06a	13-11	1430	5738	Thu	Files 04406 (682 bytes binary contents) and 04407 (887 bytes, binary contents)	FSK 200/1000	(PY)
F06a	15-11	1600	23467	Sat	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	15-11	1615	19670	Sat	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	15-11	1630	18043	Sat	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	16-11	1600	19177	Sun	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	16-11	1615	18493	Sun	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	16-11	1630	17517	Sun	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	17-11	0700	12177	Mon	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	17-11	0715	10156	Mon	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	17-11	0730	8138	Mon	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	17-11	1200	10231	Mon	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	17-11	1215	8082	Mon	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	17-11	1230	6869	Mon	File 44495 (binary contents)	FSK 200/1000	(AB)
F06a	18-11	1400	11136	Tue	File 44401 (binary contents)	FSK 200/1000	(PY)

F06a	18-11	1415	9947	Tue	File 44401 (binary contents)	FSK 200/1000	(PY)
F06a	18-11	1430	6785	Tue	File 44401 (binary contents)	FSK 200/1000	(PY)
F06a	19-11	0600	16274	Wed	File 84469 (binary contents)	FSK 200/1000	(AB)
F06a	19-11	0615	18677	Wed	File 84469 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	19-11	0630	20889	Wed	File 84469 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	19-11	0700	12177	Wed	No transmission	FSK 200/1000	(AB)
F06a	19-11	0715	10156	Wed	No transmission	FSK 200/1000	(AB)
F06a	19-11	0730	8138	Wed	No transmission	FSK 200/1000	(AB)
F06a	19-11	1200	10231	Wed	No transmissions	FSK 200/1000	(AB)
F06a	19-11	1215	8082	Wed	No transmissions	FSK 200/1000	(AB)
F06a	19-11	1230	6869	Wed	No transmissions	FSK 200/1000	(AB)
F06a	19-11	1400	11136	Wed	File 44402 (binary contents)	FSK 200/1000	(PY)
F06a	19-11	1415	9947	Wed	File 44402 (binary contents)	FSK 200/1000	(PY)
F06a	19-11	1430	6785	Wed	File 44402 (binary contents)	FSK 200/1000	(PY)
F06a	20-11	0600	16274	Thu	File 84469 (binary contents)	FSK 200/1000	(AB)
F06a	20-11	0615	18677	Thu	File 84469 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	20-11	0630	20889	Thu	File 84469 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	21-11	1400	11136	Fri	File 44403 (binary contents)	FSK 200/1000	(PY)
F06a	21-11	1415	9947	Fri	File 44403 (binary contents)	FSK 200/1000	(PY)
F06a	21-11	1430	6785	Fri	File 44403 (binary contents)	FSK 200/1000	(PY)
F06a	22-11	1600	23467	Sat	No transmission	FSK 200/1000	(AB)
F06a	22-11	1600	23467	Sat	File 44437 (binary contents)	FSK 200/1000	(AB-S)
F06a	22-11	1615	19670	Sat	No transmission	FSK 200/1000	(AB)
F06a	22-11	1615	19670	Sat	File 44437 (binary contents)	FSK 200/1000	(AB-S)
F06a	22-11	1630	18043	Sat	No transmission	FSK 200/1000	(AB)
F06a	22-11	1630	18043	Sat	File 44437 (binary contents)	FSK 200/1000	(AB-S)
F06a	23-11	1600	19177	Sun	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	23-11	1615	18493	Sun	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	23-11	1630	17517	Sun	File 44437 (binary contents)	FSK 200/1000	(AB)
F06a	24-11	0700	12177	Mon	File 44496 (binary contents)	FSK 200/1000	(AB)
F06a	24-11	0715	10156	Mon	File 44496 (binary contents)	FSK 200/1000	(AB)
F06a	24-11	0730	8138	Mon	File 44496 (binary contents)	FSK 200/1000	(AB)
F06a	24-11	1200	10231	Mon	File 44496 (binary contents)	FSK 200/1000	(AB)
F06a	24-11	1215	8082	Mon	File 44496 (binary contents)	FSK 200/1000	(AB)
F06a	24-11	1230	6869	Mon	File 44496 (binary contents)	FSK 200/1000	(AB)
F06a	25-11	1100	13532	Tue	File 44456 (1631 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	25-11	1115	11123	Tue	File 44456 (1631 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	25-11	1120	9426	Tue	File 44456 (1631 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	25-11	1603	11122	Tue	File 44456 (1631 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	25-11	1615	9064	Tue	File 44456 (1631 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	25-11	1630	6923	Tue	File 44456 (1631 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	26-11	0600	16274	Wed	File 49470 (binary contents)	FSK 200/1000	(AB-CYP)

F06a	26-11	0615	18677	Wed	File 49740 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	26-11	0630	20889	Wed	File 49470 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	26-11	0700	12177	Wed	File 44499 (binary contents)	FSK 200/1000	(AB)
F06a	26-11	0715	10156	Wed	File 44499 (binary contents)	FSK 200/1000	(AB)
F06a	26-11	0730	8138	Wed	File 44499 (binary contents)	FSK 200/1000	(AB)
F06a	26-11	1200	10231	Wed	File 44499 (binary contents)	FSK 200/1000	(AB)
F06a	26-11	1215	8082	Wed	File 44499 (binary contents)	FSK 200/1000	(AB)
F06a	26-11	1230	6869	Wed	File 44499 (binary contents)	FSK 200/1000	(AB)
F06a	27-11	0600	16274	Thu	File 49470 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	27-11	0615	18677	Thu	File 49740 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	27-11	0630	20889	Thu	File 49470 (binary contents)	FSK 200/1000	(AB-KWT)
F06a	28-11	2000	6781	Fri	File 40448 (binary contents)	FSK 200/1000	(AB)
F06a	28-11	2015	5267	Fri	File 40448 (binary contents)	FSK 200/1000	(AB)
F06a	28-11	2030	4645	Fri	File 40448 (binary contents)	FSK 200/1000	(AB)
F06a	29-11	0700	14840	Sat	File 40448 (binary contents)	FSK 200/1000	(AB)
F06a	29-11	0715	13859	Sat	File 40448 (binary contents)	FSK 200/1000	(AB)
F06a	29-11	0730	12079	Sat	File 40448 (binary contents)	FSK 200/1000	(AB)
F06a	29-11	1600	23467	Sat	File 44437 (binary contents)	FSK 200/1000	(AB-S)
F06a	29-11	1615	19670	Sat	File 44437 (binary contents)	FSK 200/1000	(AB-S)
F06a	29-11	1630	18043	Sat	File 44437 (binary contents)	FSK 200/1000	(AB-S)
F06a	30-11	1600	19177	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-CAN)
F06a	30-11	1615	18493	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-S)
F06a	30-11	1630	17517	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-S)
F07	4-11	2100	8182	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-11	2110	7856	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-11	2120	7541	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-11	2130	6992	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-11	2140	6802	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-11	2150	5818	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-11	2100	8182	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-11	2110	7856	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-11	2120	7541	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-11	2130	6992	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-11	2140	6802	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	6-11	2150	5818	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-11	2100	8182	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-11	2110	7856	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-11	2120	7541	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-11	2130	6992	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-11	2140	6802	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-11	2150	5818	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	13-11	2100	8182	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)

F07	13-11	2110	7856	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	13-11	2120	7541	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	13-11	2130	6992	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	13-11	2140	6802	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	13-11	2150	5818	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-11	2100	8182	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-11	2110	7856	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-11	2120	7541	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-11	2130	6992	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-11	2140	6802	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-11	2150	5818	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-11	2100	8182	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-11	2110	7856	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-11	2120	7541	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-11	2130	6992	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-11	2140	6802	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	20-11	2150	5818	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-11	2100	8182	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-11	2110	7856	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-11	2120	7541	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-11	2130	6992	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-11	2140	6802	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-11	2150	5818	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-11	2100	8182	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-11	2110	7856	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-11	2120	7541	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-11	2130	6992	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-11	2140	6802	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	27-11	2150	5818	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
FIN	25-11	1028	14693	Tue	Finnish diplo	Sky-OFDM	(AB)
FIN	27-11	1219	14693	Thu	Finnish diplo	Sky-OFDM	(AB)
FIN	28-11	1305	18761	Fri	Finnish diplo	Sky-OFDM	(AB)
KRE	1-11	0820	13200	Sat	DPRK embassy Moscow wkg DPRK embassy Warsaw	DPRK ARQ 600/600 LSB	(AB)
KRE	1-11	1300	14150	Sat	DPRK embassy Moscow clg DPRK Permanent Mission to the UN, Geneva. QSY freq 14800 kHz //16252 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	1-11	1300	16252	Sat	DPRK embassy Moscow clg DPRK Permanent Mission to the UN, Geneva. QSY freq 14800 kHz //14150 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	1-11	1330	14300	Sat	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK ARQ 600/600 LSB	(AB)
KRE	1-11	1338	14150	Sat	DPRK embassy Moscow clg DPRK Permanent Mission to the UN, Geneva //14950 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	1-11	1340	14950	Sat	DPRK embassy Moscow clg DPRK Permanent Mission to the UN, Geneva //14150 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	3-11	1257	14100	Mon	Unid embassy clg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	3-11	1257	14750	Mon	Unid embassy clg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)

KRE	3-11	1257	15500	Mon	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	4-11	0939	14300	Tue	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK ARQ 600/600 LSB	(AB)
KRE	4-11	1227	14300	Tue	DPRK embassy Moscow wkg DPRK embassy Vienna	DPRK ARQ 600/600 LSB	(AB)
KRE	5-11	0724	14300	Wed	DPRK embassy Moscow clg DPRK embassy Berlin. QSY freq 14800 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	5-11	0727	14300	Wed	DPRK embassy Moscow clg DPRK embassy Berlin. QSY freq 14800 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	5-11	0825	14620	Wed	DPRK embassy Rome clg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	5-11	0830	14620	Wed	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	5-11	1204	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	5-11	1215	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Berlin. QSY freqs 12850, 13858 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	5-11	1216	12850	Wed	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	5-11	1225	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Vienna	DPRK ARQ 600/600 LSB	(AB)
KRE	5-11	1328	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Sofia. QSU freq 15560 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	7-11	1025	18650	Fri	DPRK embassy Moscow wkg DPRK embassy Cairo	DPRK ARQ 600/600 LSB	(AB)
KRE	7-11	1025	18655	Fri	DPRK embassy Cairo wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	7-11	1229	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Vienna	DPRK ARQ 600/600 LSB	(AB)
KRE	7-11	1329	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK ARQ 600/600 LSB	(AB)
KRE	7-11	1422	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK ARQ 600/600 LSB	(AB)
KRE	7-11	1547	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Bucharest. QSY freq 13800 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	11-11	1210	12850	Tue	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	11-11	1213	14300	Tue	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	11-11	1226	14300	Tue	DPRK embassy Moscow wkg DPRK embassy Vienna	DPRK ARQ 600/600 LSB	(AB)
KRE	11-11	1333	14300	Tue	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK ARQ 600/600 LSB	(AB)
KRE	13-11	0844	11045	Thu	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK ARQ 600/600 LSB	(AB)
KRE	14-11	0638	14150	Fri	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. QSY freq 14100 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	14-11	0645	14150	Fri	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. QSY freq 15550 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	19-11	0730	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	19-11	0942	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	20-11	0730	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	20-11	0816	13300	Thu	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK ARQ 600/600 LSB	(AB)
KRE	20-11	0817	13800	Thu	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	20-11	0820	13200	Thu	DPRK embassy Warsaw wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	21-11	1349	14150	Fri	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	24-11	1305	16100	Mon	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	25-11	0645	14150	Tue	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. QSY freq 14100 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	25-11	1235	17140	Tue	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	26-11	1452	11045	Wed	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK ARQ 600/600 LSB	(AB)
KRE	27-11	0820	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Warsaw	DPRK ARQ 600/600 LSB	(AB)
KRE	27-11	0944	17140	Thu	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 600/600 LSB	(AB)
KRE	27-11	1210	13120	Thu	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)

KRE	27-11	1218	14650	Thu	Unid DPRK embassy wkg DPRK embassy Moscow. Endlessly repeating 13600 (the QSY freq)	DPRK ARQ 1200/600 LSB	(AB)
KRE	27-11	1222	12180	Thu	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	27-11	1302	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	27-11	1332	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	28-11	0705	18450	Fri	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	28-11	0805	12600	Fri	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	28-11	1233	18650	Fri	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	29-11	1330	14200	Sat	DPRK embassy Moscow wkg DPRK embassy Prague	DPRK ARQ 600/600 LSB	(AB)
M01	1-11	1500	5810	Sat	197 055 055 30 30 = = 45362 65748 26550 ... 61546 63390 05563 = = 055 055 30 30 000	CW	(AB/Ringo)
M01	2-11	0700	5465	Sun	197 658 30 = 65748 ...	CW	(HFD)
M01	4-11	1800	5230	Tue	197 046 046 30 30 = = 234621 64374 64738 ... 95847 74323 75847 = = 046 046 30 30 000	CW	(AB)
M01	4-11	2000	4490	Tue	197 045 045 30 30 = = 09323 94832 84323 ... 75834 75849 95847 = = 045 045 30 30 000	CW	(AB)
M01	6-11	1800	5320	Thu	197 567 30 = 84932 ...	CW	(AB/HFD)
M12	1-11	1900	12135	Sat	573 573 573 1 ... (too weak to copy)	CW	(AB/HFD)
M12	1-11	1920	11452	Sat	573 573 573 1 ... (too weak to copy)	CW	(AB/HFD)
M12	1-11	1940	10627	Sat	573 573 573 1 ... (too weak to copy)	CW	(AB/HFD)
M12	1-11	2200	7893	Sat	812:1 x6859 849	CW	(HFD)
M12	1-11	2220	8132	Sat	812:1 x7459 849	CW	(HFD)
M12	1-11	2240	9263	Sat	812:1 x9959 849	CW	(HFD)
M12	2-11	2310	13373	Sun	312 312 312 000	CW	(HFD)
M12	2-11	2330	12173	Sun	312 312 312 000	CW	(HFD)
M12	3-11	0200	16152	Mon	154 154 154 1 1696 163 1696 163 40625 83806 71616 ... 44440 32517 12945 000 000	CW	(PY/HFD)
M12	3-11	0220	14537	Mon	154 154 154 1 1696 163 1696 163 40625 83806 71616 ... 44440 32517 12945 000 000	CW	(PY)/HFD
M12	3-11	0240	13461	Mon	154 154 154 1 1696 163 1696 163 40625 83806 71616 ... 44440 32517 12945 000 000	CW	(PY/HFD)
M12	3-11	2300	10446	Mon	392 392 392 000	CW	(HFD)
M12	3-11	2320	9046	Mon	392 392 392 000	CW	(HFD)
M12	4-11	0300	16184	Tue	174 174 174 000	CW	(HFD)
M12	4-11	0320	14784	Tue	174 174 174 000	CW	(HFD)
M12	4-11	1100	10713	Tue	657 657 657 1 3041 61 3041 61 42903 47676 22257 ... 30717 21689 26400 000 000	CW	(AB/HFD)
M12	4-11	1120	11568	Tue	657 657 657 1 3041 61 3041 61 42903 47676 22257 ... 30717 21689 26400 000 000	CW	(AB/HFD)
M12	4-11	1140	12165	Tue	657 657 657 1 3041 61 3041 61 42903 47676 22257 ... 30717 21689 26400 000 000	CW	(AB/HFD)
M12	5-11	1900	12135	Wed	Too weak to copy	CW	(AB)
M12	5-11	1920	11452	Wed	Too weak to copy	CW	(AB)
M12	5-11	1940	10627	Wed	Too weak to copy	CW	(AB)
M12	6-11	1800	11564	Thu	258 258 258 1 ... (too weak to copy)	CW	(AB/HFD)
M12	6-11	1820	10487	Thu	258 258 258 1 ... (too weak to copy)	CW	(AB/HFD)
M12	6-11	1840	9319	Thu	258 258 258 1 ... (too weak to copy)	CW	(AB/HFD)
M12	13-11	1800	11564	Thu	258 258 258 1 6648 75 8648 75 66278 77863 40067 ... 51937 07468 95049 000 000	CW	(AB)
M12	13-11	1820	10487	Thu	258 258 258 1 6648 75 8648 75 66278 77863 40067 ... 51937 07468 95049 000 000	CW	(AB)
M12	13-11	1840	9319	Thu	258 258 258 1 6648 75 8648 75 66278 77863 40067 ... 51937 07468 95049 000 000	CW	(AB)
M12	14-11	2200	7893	Fri	812 812 812 1 7257 55 7257 55 92331 57473 56451 ... 64970 63624 19391 000 000	CW	(AB)
M12	14-11	2220	8132	Fri	812 812 812 1 7257 55 7257 55 92331 57473 56451 ... 64970 63624 19391 000 000	CW	(AB)

M12	14-11	2240	5182	Fri	812 812 812 1 7257 55 7257 55 92331 57473 56451 ... 64970 63624 19391 000 000	CW	(AB)
M12	15-11	2200	7893	Sat	812 812 812 1 7257 55 7257 55 92331 57473 56451 ... 64970 63624 19391 000 000	CW	(AB)
M12	15-11	2220	8132	Sat	812 812 812 1 7257 55 7257 55 92331 57473 56451 ... 64970 63624 19391 000 000	CW	(AB)
M12	15-11	2240	5182	Sat	812 812 812 1 7257 55 7257 55 92331 57473 56451 ... 64970 63624 19391 000 000	CW	(AB)
M12	20-11	1800	11564	Thu	258 258 2S8 1 9660 79 9660 79 ...	CW	(AB)
M12	20-11	1820	10487	Thu	258 258 2S8 1 9660 79 9660 79 ...	CW	(AB)
M12	20-11	1840	9319	Thu	258 258 2S8 1 9660 79 9660 79 ...	CW	(AB)
M12	21-11	2200	7893	Fri	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M12	21-11	2220	8132	Fri	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M12	21-11	2240	5182	Fri	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M12	22-11	2200	7893	Sat	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M12	22-11	2220	8132	Sat	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M12	22-11	2240	5182	Sat	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M12	24-11	1900	12135	Mon	573 573 573 1 4748 119 4748 119 75617 11632 16036 ... 54113 38828 50134 000 000	CW	(PY)
M12	24-11	1920	11452	Mon	573 573 573 1 4748 119 4748 119 75617 11632 16036 ... 54113 38828 50134 000 000	CW	(PY)
M12	24-11	1940	10627	Mon	573 573 573 1 4748 119 4748 119 75617 11632 16036 ... 54113 38828 50134 000 000	CW	(PY)
M12	25-11	0800	9324	Tue	826 826 826 1 9027 92 9027 92 28118 38849 85070 ... 10939 61309 97821 000 000	CW	(PY)
M12	25-11	0800	10593	Tue	826 826 826 1 9027 92 9027 92 28118 38849 85070 ... 10939 61309 97821 000 000	CW	(PY)
M12	25-11	0800	11438	Tue	826 826 826 1 9027 92 9027 92 28118 38849 85070 ... 10939 61309 97821 000 000	CW	(PY)
M12	27-11	1800	11564	Thu	258 258 2S8 1 9891 78 9891 78 ... (barely audible)	CW	(AB)
M12	27-11	1820	10487	Thu	258 258 2S8 1 9891 78 9891 78 ... (barely audible)	CW	(AB)
M12	27-11	1840	9319	Thu	258 258 2S8 1 9891 78 9891 78 ... (barely audible)	CW	(AB)
M12	28-11	2200	7893	Fri	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M12	28-11	2220	8132	Fri	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M12	28-11	2240	5182	Fri	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M12	29-11	2200	7893	Sat	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M12	29-11	2220	8132	Sat	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M12	29-11	2240	5182	Sat	812 812 812 1 4381 184 4381 184 51672 13904 58145 ... 84441 42242 72517 000 000	CW	(AB)
M14	3-11	0500	12211	Mon	No transmission	CW	(Subilo)
M14	3-11	0520	10243	Mon	No transmission	CW	(Subilo)
M14	4-11	0500	12211	Tue	No transmission	CW	(Subilo)
M14	4-11	0520	10243	Tue	No transmission	CW	(Subilo)
M14	5-11	0500	12211	Wed	952 647 647 13 13 = = 97572 28675 46157 ... 56639 37860 48028 = = 647 647 13 13 off. Short break during the callup	CW	(Su- bilo/HFD)
M14	5-11	0520	10243	Wed	952 647 647 13 13 = = 97572 28675 46157 ... 56639 37860 48028 = = 647 647 13 13 952 801 801 37 37 = = 91534 64324 08959 ... 01506 56883 51242 = = 801 801 37 37 00000. Briefly FSK CW at the beginning	CW	(Su- bilo/HFD)
M14	6-11	0500	12211	Thu	952 647 647 13 13 = = 97572 28675 46157 ... 56639 37860 48028 = = 647 647 13 13 952 801 801 37 37 = = 91534 64324 08959 ... 01506 56883 51242 = = 801 801 37 37 00000	CW	(Subilo)
M14	6-11	0520	10243	Thu	952 647 647 13 13 = = 97572 28675 46157 ... 56639 37860 48028 = = 647 647 13 13 952 801 801 37 37 = = 91534 64324 08959 ... 01506 56883 51242 = = 801 801 37 37 00000	CW	(Subilo)
M14	7-11	0500	12211	Fri	952 952 952 00000	CW	(Subilo)

M14	7-11	0520	10243	Fri	952 952 952 00000	CW	(Subilo)
M14	10-11	0500	12211	Mon	952 763 763 54 54 = = 34855 28280 59025 ... 69014 36904 31686 = = 763 763 54 54 00000	CW	(Subilo)
M14	10-11	0520	10243	Mon	952 763 763 54 54 = = 34855 28280 59025 ... 69014 36904 31686 = = 763 763 54 54 00000	CW	(Subilo)
M14	11-11	0500	12211	Tue	952 763 763 54 54 = = 34855 28280 59025 ... 69014 36904 31686 = = 763 763 54 54 00000	CW	(Subilo)
M14	11-11	0520	10243	Tue	952 763 763 54 54 = = 34855 28280 59025 ... 69014 36904 31686 = = 763 763 54 54 00000	CW	(Subilo)
M14	12-11	0500	12211	Wed	952 180 180 22 22 = = 16169 19621 33358 ... 94500 02941 97794 = = 180 180 22 22 952 347 3477 29 29 = = 37979 78134 01010 ... 16355 64999 36382 = = 347 347 29 29 00000. Off after group 24 of the 2nd msg	CW	(Subilo)
M14	12-11	0520	10243	Wed	952 180 180 22 22 = = 16169 19621 33358 ... 94500 02941 97794 = = 180 180 22 22 952 347 3477 29 29 = = 37979 78134 01010 ... 16355 64999 36382 = = 347 347 29 29 00000	CW	(Subilo)
M14	13-11	0500	12211	Thu	952 180 180 22 22 = = 16169 19621 33358 ... 94500 02941 97794 = = 180 180 22 22 952 347 3477 29 29 = = 37979 78134 01010 ... 16355 64999 36382 = = 347 347 29 29 00000	CW	(Subilo)
M14	13-11	0520	10243	Thu	952 180 180 22 22 = = 16169 19621 33358 ... 94500 02941 97794 = = 180 180 22 22 952 347 3477 29 29 = = 37979 78134 01010 ... 16355 64999 36382 = = 347 347 29 29 00000	CW	(Subilo)
M14	14-11	0500	12211	Fri	952 952 952 00000	CW	(Subilo)
M14	14-11	0520	10243	Fri	952 952 952 00000	CW	(Subilo)
M14	17-11	0500	12211	Mon	952 681 681 52 52 = = 23686 20260 29505 ... 61693 89846 30018 = = 681 681 52 52 00000	CW	(Subilo)
M14	17-11	0520	10243	Mon	952 681 681 52 52 = = 23686 20260 29505 ... 61693 89846 30018 = = 681 681 52 52 00000	CW	(Subilo)
M14	18-11	0500	12211	Tue	952 681 681 52 52 = = 23686 20260 29505 ... 61693 89846 30018 = = 681 681 52 52 00000	CW	(Subilo)
M14	18-11	0520	10243	Tue	952 681 681 52 52 = = 23686 20260 29505 ... 61693 89846 30018 = = 681 681 52 52 00000	CW	(Subilo)
M14	19-11	0500	12211	Wed	952 407 407 26 26 = = 48338 63737 24494 ... 13489 92616 74352 = = 407 407 26 26 952 386 386 29 29 = = 91733 16845 16650 ... 88619 65868 05179 = = 386 386 29 29 00000	CW	(Subilo)
M14	19-11	0520	10243	Wed	952 407 407 26 26 = = 48338 63737 24494 ... 13489 92616 74352 = = 407 407 26 26 952 386 386 29 29 = = 91733 16845 16650 ... 88619 65868 05179 = = 386 386 29 29 00000	CW	(Subilo)
M14	20-11	0500	12211	Thu	952 386 386 29 29 = = 91733 16845 16650 ... 88619 65868 05179 = = 386 386 29 29 952 407 407 26 26 = = 48338 63737 24494 ... 13489 92616 74352 = = 407 407 26 26 00000	CW	(Subilo)
M14	20-11	0520	10243	Thu	952 386 386 29 29 = = 91733 16845 16650 ... 88619 65868 05179 = = 386 386 29 29 952 407 407 26 26 = = 48338 63737 24494 ... 13489 92616 74352 = = 407 407 26 26 00000	CW	(Subilo)
M14	21-11	0500	12211	Fri	952 952 952 00000	CW	(Subilo)
M14	21-11	0520	10243	Fri	952 952 952 00000	CW	(Subilo)
M14	24-11	0500	12211	Mon	952 710 710 54 54 = = 81406 62910 44506 ... 13549 02194 17054 = = 710 710 54 54 00000	CW	(Subilo)
M14	24-11	0520	10243	Mon	952 710 710 54 54 = = 81406 62910 44506 ... 13549 02194 17054 = = 710 710 54 54 00000	CW	(Subilo)
M14	25-11	0500	12211	Tue	952 710 710 54 54 = = 81406 62910 44506 ... 13549 02194 17054 = = 710 710 54 54 00000	CW	(Subilo)
M14	25-11	0520	10243	Tue	952 710 710 54 54 = = 81406 62910 44506 ... 13549 02194 17054 = = 710 710 54 54 00000. 48s silence during the callup	CW	(Subilo)
M14	26-11	0500	12211	Wed	952 610 610 34 34 = = 74056 16675 22831 ... 92?69 81475 24660 = = 610 610 34 34 952 634 834 17 17 = = 48353 69409 16469 ... 08989 75678 33028 = = 834 834 17 17 00000	CW	(Subilo)
M14	26-11	0520	10243	Wed	952 610 610 34 34 = = 74056 16675 22831 ... 92?69 81475 24660 = = 610 610 34 34 952 634 834 17 17 = = 48353 69409 16469 ... 08989 75678 33028 = = 834 834 17 17 00000	CW	(Subilo)
M14	27-11	0500	12211	Thu	952 634 834 17 17 = = 48353 69409 16469 ... 08989 75678 33028 = = 834 834 17 17 952 610 610 34 34 = = 74056 16675 22831 ... 92?69 81475 24660 = = 610 610 34 34 00000	CW	(Subilo)
M14	27-11	0520	10243	Thu	952 634 834 17 17 = = 48353 69409 16469 ... 08989 75678 33028 = = 834 834 17 17 952 610 610 34 34 = = 74056 16675 22831 ... 92?69 81475 24660 = = 610 610 34 34 00000	CW	(Subilo)

M14	28-11	0500	12211	Fri	952 952 952 00000	CW	(Subilo)
M14	28-11	0520	10243	Fri	952 952 952 00000	CW	(Subilo)
M23	5-11	0931	10352	Wed	50000 05000 00500 00050 00005 55000 05500 00550 00055 55500 05550 00555 00000 55555 (R25m)	CW	(AB)
M23	6-11	0931	10352	Thu	50000 05000 00500 00050 00005 55000 05500 00550 00055 55500 05550 00555 00000 55555 (R25m)	CW	(AB)
M23	7-11	0931	10352	Fri	50000 05000 00500 00050 00005 55000 05500 00550 00055 55500 05550 00555 00000 55555 (R25m)	CW	(AB)
M23	8-11	0931	10352	Sat	50000 05000 00500 00050 00005 55000 05500 00550 00055 55500 05550 00555 00000 55555 (R25m)	CW	(AB)
M23	8-11	1831	6806	Sat	45859157N6768293E (R25m)	CW	(AB)
M23	8-11	2231	5182	Sat	987654321123456789009876543210123456789000 (R25m) (R25m)	CW	(AB)
M23	9-11	0931	10352	Sun	50000 05000 00500 00050 00005 55000 05500 00550 00055 55500 05550 00555 00000 55555 (R25m)	CW	(AB)
M23	9-11	1801	6806	Sun	Hourly beep	CW	(AB)
M23	9-11	1831	6806	Sun	45859157N6768293E (R25m)	CW	(AB)
M23	9-11	2231	5182	Sun	987654321123456789009876543210123456789000 (R25m)	CW	(AB)
M23	10-11	0931	10352	Mon	50000 05000 00500 00050 00005 55000 05500 00550 00055 55500 05550 00555 00000 55555 (R25m)	CW	(AB)
M23	10-11	1501	6806	Mon	Hourly beep	CW	(AB)
M23	10-11	1831	6806	Mon	45859157N6768293E (R25m)	CW	(AB)
M23	10-11	2231	5182	Mon	987654321123456789009876543210123456789000 (R25m)	CW	(AB)
M23	11-11	0931	10352	Tue	50000 05000 00500 00050 00005 55000 05500 00550 00055 55500 05550 00555 00000 55555 (R25m)	CW	(AB)
M23	11-11	1001	10352	Tue	Hourly beep	CW	(AB)
M23	11-11	1101	10352	Tue	Hourly beep	CW	(AB)
M23	11-11	1201	10352	Tue	Hourly beep	CW	(AB)
M23	11-11	1601	6806	Tue	Hourly beep	CW	(AB)
M23	11-11	1831	6806	Tue	45859157N6768293E (R25m)	CW	(AB)
M23	11-11	2231	5182	Tue	987654321123456789009876543210123456789000 (R25m)	CW	(AB)
M23	12-11	0931	10352	Wed	50000 05000 00500 00050 00005 55000 05500 00550 00055 55500 05550 00555 00000 55555 (R25m)	CW	(AB)
M23	12-11	1831	6806	Wed	45859157N6768293E (R25m)	CW	(AB)
M23	12-11	2231	5182	Wed	987654321123456789009876543210123456789000 (R25m)	CW	(AB)
M23	13-11	1331	13826	Thu	45859157N6768293E (R25m)	CW	(AB)
M23	14-11	1331	13826	Fri	45859157N6768293E (R25m)	CW	(AB)
M23	15-11	1331	13826	Sat	45859157N6768293E (R25m)	CW	(AB)
M23	16-11	1331	13826	Sun	45859157N6768293E (R25m)	CW	(AB)
M23	17-11	1331	13826	Mon	45859157N6768293E (R25m)	CW	(AB)
M23	18-11	1331	13826	Tue	45859157N6768293E (R25m)	CW	(AB)
M23	19-11	1331	13826	Wed	45859157N6768293E (R25m)	CW	(AB)
M23	20-11	1331	13826	Thu	45859157N6768293E (R25m)	CW	(AB)

M23	21-11	1331	13826	Fri	45859157N6768293E (R25m)	CW	(AB)
M23	21-11	1701	5182	Fri	45859157N6768293E (R25m)	CW	(AB)
M23	22-11	0701	9069	Sat	45859157N6768293E (R25m)	CW	(TM)
M23	22-11	1331	13826	Sat	45859157N6768293E (R25m)	CW	(AB)
M23	22-11	1701	5182	Sat	45859157N6768293E (R25m)	CW	(AB)
M23	23-11	0701	9069	Sun	45859157N6768293E (R25m)	CW	(TM)
M23	23-11	1331	13826	Sun	45859157N6768293E (R25m)	CW	(AB)
M23	23-11	1701	5182	Sun	45859157N6768293E (R25m)	CW	(AB/TJ)
M23	24-11	0701	9069	Mon	45859157N6768293E (R25m)	CW	(TM)
M23	24-11	1331	13826	Mon	45859157N6768293E (R25m)	CW	(AB)
M23	24-11	1701	5182	Mon	45859157N6768293E (R25m)	CW	(AB/TJ)
M23	25-11	0701	9069	Tue	45859157N6768293E (R25m)	CW	(TM)
M23	25-11	1331	13826	Tue	45859157N6768293E (R25m)	CW	(AB)
M23	25-11	1701	5182	Tue	45859157N6768293E (R25m)	CW	(AB)
M23	26-11	0701	9069	Wed	45859157N6768293E (R25m)	CW	(AB)
M23	26-11	1331	13826	Wed	45859157N6768293E (R25m)	CW	(AB)
M23	26-11	1701	5182	Wed	45859157N6768293E (R25m)	CW	(AB)
M23	27-11	0701	9069	Thu	45859157N6768293E (R25m)	CW	(AB)
M23	27-11	1331	13826	Thu	45859157N6768293E (R25m)	CW	(AB)
M23	27-11	1701	5182	Thu	45859157N6768293E (R25m)	CW	(AB)
M23	28-11	0701	9069	Fri	45859157N6768293E (R25m)	CW	(AB)
M42	6-11	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Very weak. Havana not monitored	FSK 75/500	(AB)
M42	13-11	1256	18726	Thu	UAG: Russian embassy Havana. Test: RYRYRYRYRYRYRYR VVV	FSK 75/100	(AB)
M42	13-11	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Switched to 14970 kHz at 1304z	FSK 75/500	(AB)
M42	13-11	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. Message header: 11100 70103 36521 13155 04003	FSK 75/100	(AB)
M42	13-11	1304	14970	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Switched to 20115 kHz at 1307z	FSK 75/500	(AB)
M42	13-11	1307	20115	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Message header 11100 70103 32147 13155 04009	FSK 75/500	(AB)
M42	17-11	0650	14439	Mon	Russian diplo	Serdolik v2	(AB/RO)
M42	17-11	0821	14878	Mon	Russian diplo	MFSK-66	(AB)
M42	17-11	0839	14878	Mon	Russian diplo	MFSK-66	(AB)
M42	17-11	0846	14713	Mon	Russian diplo	MFSK-66	(AB)
M42	17-11	0930	12214	Mon	Russian diplo	MFSK-66	(AB/RO)
M42	17-11	0950	12228	Mon	Russian diplo	MFSK-66	(RO)
M42	18-11	0957	14801	Tue	Russian diplo	MFSK-66	(AB)
M42	20-11	1028	16276	Thu	Russian diplo	MFSK-66	(AB)
M42	20-11	1240	16156	Thu	UAL: MFA Moscow. Carrier for 2 mins. Nothing else heard.	FSK 75/500	(AB)
M42	20-11	1300	18726	Thu	UAG: Russian embassy Havana. No transmission	FSK 75/100	(AB)
M42	20-11	1413	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	20-11	1414	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	20-11	1414	16313	Thu	Russian diplo	Serdolik v2	(AB)

M42	20-11	1414	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	20-11	1424	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	20-11	1425	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	20-11	1438	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	20-11	1440	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	20-11	1443	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	20-11	1444	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	20-11	1455	16276	Thu	Russian diplo	MFSK-66	(AB)
M42	20-11	1514	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	20-11	1521	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	20-11	1521	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	20-11	1521	18232	Thu	Russian diplo. Test	Serdolik v2	(AB)
M42	20-11	1559	16315	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	20-11	1600	16313	Thu	Russian diplo	Serdolik v2	(AB)
M42	24-11	0753	17468	Mon	Russian diplo. Selcal	Serdolik v2	(T101)
M42	24-11	0754	17466	Mon	Russian diplo	Serdolik v2	(T101)
M42	24-11	0916	14690	Mon	Russian diplo. Selcal	Serdolik v2	(AB)
M42	24-11	0916	19277	Mon	Russian diplo. Selcal	Serdolik v2	(AB)
M42	24-11	0919	14690	Mon	Russian diplo. Selcal	Serdolik v2	(AB)
M42	24-11	0919	19277	Mon	Russian diplo. Selcal	Serdolik v2	(AB)
M42	24-11	0921	19275	Mon	Russian diplo	Serdolik v2	(AB)
M42	24-11	0929	19275	Mon	Russian diplo	Serdolik v2	(AB)
M42	27-11	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Msg header: 11100 70103 74152 27162 04009	FSK 75/500	(AB)
M42	27-11	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. Msg header: 11100 70103 12489 27162 04003	FSK 75/100	(AB)
M42b	1-11	0700	5800	Sat	RYF2: Russian PtP link. Link partner on 8115 kHz not active	FSK 50/500	(TJ)
M42b	1-11	0700	8195	Sat	RNM2: Russian PtP link. Link partner on 9185 kHz not active	FSK 50/500	(TJ)
M42b	1-11	0700	11065	Sat	RWB3: Russian PtP link. Link partner on 13870 kHz not active	FSK 50/500	(TJ)
M42b	1-11	0700	11080	Sat	RDI: Russian PtP link. Link partner on 14485 kHz not active	FSK 50/500	(TJ)
M42b	1-11	0700	11470	Sat	RGY2: Russian PtP link. Link partner on 17475 kHz not active	FSK 50/500	(TJ)
M42b	1-11	0700	13985	Sat	RRQ6: Russian PtP link. Link partner on 16180 kHz not active	FSK 50/500	(TJ)
M42b	1-11	0700	15940	Sat	RPD2: Russian PtP link. Link partner on 15870 kHz not active	FSK 50/500	(TJ)
M42b	4-11	0957	7635	Tue	RWA50: Russian PtP link, poss Rostov na Donu area, kg w/RLC2 (?)	FSK 50/500	(TJ)
M42b	5-11	1410	14380	Wed	KFUJ RTHZLQPCAUJ RKFWLQPTHE OOOOOOOOOOOOOOOOOOOOOOOOOOOO (repeated)	FSK 50/500	(AB)
M42b	6-11	0740	11065	Thu	RWB3: Russian PtP link, reversals	FSK 50/500	(TJ)
M42b	6-11	0740	11470	Thu	RGY2: Russian PtP link, reversals	FSK 50/500	(TJ)
M42b	6-11	0745	8195	Thu	RNM2: Russian PtP link, reversals	FSK 50/500	(TJ)
M42b	6-11	0747	5350	Thu	RAU2: Russian PtP link sending reversals	FSK 50/500	(TJ)
M42b	6-11	0747	5800	Thu	RYF2: Russian PtP link, reversals	FSK 50/500	(TJ)
M42b	6-11	0940	5735	Thu	RNV2: Russian PtP link, reversals	FSK 50/500	(TJ)
M42b	6-11	0954	6870	Thu	RAZ: Russian PtP link, reversals	FSK 50/500	(TJ)

M42b	6-11	1031	5845	Thu	Unid Russian PtP link, reversals	FSK 50/500	(TJ)
M42b	7-11	0710	4816	Fri	Russian PtP link. DATZ calling VFGK, then opchat as VFGK is off frequency	CW	(TJ)
M42b	8-11	1036	5350	Sat	RAI8: Russian PtP link. At 1117z technical opchat after linking failures on RAU2/RNI2 link: rrs6 de rai8 gd qsa rrs6 de rai8 qsa znn gb 55 73 sn sn	CW	(TJ)
M42b	8-11	1530	5469	Sat	AIFH: Russian PtP link. Opchat with CDAP, CDAP on 5931 kHz. AIFH confirms received msg from CDAP: cfm nil qru k	CW	(TJ)
M42b	8-11	1530	5484	Sat	Unid Russian PtP link. Opchat, too weak to copy	CW	(TJ)
M42b	10-11	1714	4816	Mon	Russian PtP link. DATZ wkg VFGK. Opchat and msg. Header: 333 100 10 1705 3859 =	FSK 50/500	(TJ)
M42b	11-11	0750	5800	Tue	Russian PtP link. Reversals and RYF2 wkg RWI on 8115 kHz	FSK 50/500	(TJ)
M42b	11-11	0800	12121	Tue	KA9M: Russian PtP link. Msg header: 432 1000 11 0800 1579 = Off before =50= group	FSK 50/500	(TJ)
M42b	11-11	1714	4816	Tue	Russian PtP link. DATZ wkg VFGK. Opchat and msg. Header: 631 100 11 1700 1827 =	FSK 50/500	(TJ)
M42b	12-11	0508	5145	Wed	RVQ: Russian PtP link	FSK 50/500	(TJ)
M42b	12-11	0813	5735	Wed	Russian PtP link RNV(2) reversals. Link partner RNI2 is at 7900 kHz	FSK 50/500	(TJ)
M42b	12-11	1528	5469	Wed	AIFH: Russian PtP link. AIFH clg CDAP. No reply. Then QSA NO QSY 93308 QSY 93308 K. AIFH gives up at ca 1545z	CW	(TJ)
M42b	13-11	0759	12121	Thu	Russian PtP link. DVY7 clg PVS9, several attempts, break in call-up routine at 0803utc, no qsy commands	CW	(TJ)
M42b	13-11	1013	16180	Thu	Russian PtP link. RNM6 wkg RRQ6, off air at 1036z	FSK 60/500	(TJ)
M42b	13-11	1020	9185	Thu	Russian PtP link. REA wkg RNM2	FSK 50/500	(TJ)
M42b	13-11	1024	9130	Thu	Russian PtP link. RWI wkg UIA7, readability problems, RWI transmit pre-written test tape to UIA7, says gb 73 at 1158utc and off air at 1229z	FSK 50/500	(TJ)
M42b	13-11	1025	9360	Thu	Russian PtP link. REA wkg RAZ2, goes low on c/f -250 Hz at 1148z. Opchat and ends mon-fri sched	FSK 50/500	(TJ)
M42b	13-11	1100	13375	Thu	OBZLQPCAUJ RTHZLQPCAUJ RYTHZLQLEKFUJ QOQ HQOQO000000QOQ HQOQO000000QOQ HQOQO00000000000000000000- V00000000000000000000(repeated)	FSK 50/500	(AB)
M42b	13-11	1700	4816	Thu	Russian PtP link. DATZ wkg VFGK, opchat and amessage. Header: 162 10091 1650 3984	FSK 50/500	(TJ)
M42b	14-11	----	4538	Fri	VFGK: Russian PtP link. Callup and opchat: datz datz datz de vfgk vfgk qsa3 qtc1 ... zzc zvp .., nothing heard from DATZ on 4816 kHz	CW	(TJ)
M42b	14-11	0855	5800	Fri	RYF2: Russian PtP link. Reversals. Linkpartner RWI on 8115 kHz with FSK 50/500 reversals	FSK 25/500	(TJ)
M42b	14-11	0855	9130	Fri	Russian PtP link: ... uia7 uia7 uia7 de rwi rwi qrk? 121752. Not able to connect with UIA7: 121752 121752 121752 \$ 121752 vvv uia7 uia7 uia7 de rwi rwi qrk0 zor k \$ 121752 at 1014z and into reversals	FSK 50/500	(TJ)
M42b	14-11	0858	9185	Fri	REA: Russian PtP link. REA wkg RNM2	FSK 50/500	(TJ)
M42b	14-11	0901	9360	Fri	REA: Russian PtP link. REA wkg RAZ2 on 6870 kHz. Ends mon-fri schedule with the regular: 121749 vvv raz2 raz2 raz2 de rea rea qrk0 znn gb 73 sk	FSK 50/500	(TJ)
M42b	14-11	0901	11470	Fri	RGY2: Russian PtP link. Reversals. Linkpartner RTK2 on 17475 kHz	FSK 50/500	(TJ)
M42b	14-11	0903	13985	Fri	RRQ6: Russian PtP link. Reversals. Linkpartner RNM6 on 16180 kHz	FSK 50/500	(TJ)
M42b	14-11	0903	14485	Fri	RTK6: Russian PtP link. Reversals Linkpartner RDI on 11080 kHz	FSK 50/500	(TJ)
M42b	14-11	0905	14780	Fri	Russian PtP link RWI2 wkg RHK6	FSK 50/500	(TJ)
M42b	14-11	0935	14485	Fri	Russian PtP link 121746. Sent: 121746 VVV RDI RDI RDI DE RTK RTK QSA? K then reversals	FSK 50/500	(AB)
M42b	14-11	1030	6995	Fri	Russian PtP link. RVQ wkg RUH	FSK 50/500	(TJ)

M89	2-11	1203	4357	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	2-11	1203	5742	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	2-11	1207	5205.5	Sun	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	2-11	1215	7766	Sun	i.p.	CW	(JPL)
M89	2-11	1220	4680	Sun	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	2-11	1220	6840	Sun	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	2-11	1238	6454	Sun	i.p.	CW	(JPL)
M89	2-11	1249	7636	Sun	i.p. NR 5256 CK 99 47 1102 2030 RMKS 5039 TO 2133 =	CW	(JPL)
M89	3-11	1220	4680	Mon	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	3-11	1220	6840	Mon	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	3-11	1229	3374	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	3-11	1229	4357	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	3-11	1229	5742	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	3-11	1239	4610	Mon	V PD4N (x3) DE WY7H Note: R/S changed from QJPL DE 5CRP.	CW	(JPL)
M89	3-11	1249	4450	Mon	i.p. NR 6023 CK 12 65 1103 2020 RMKS 1733894 TO 173309 =	CW	(JPL)
M89	3-11	1249	4450	Mon	i.p.	CW	(JPL)
M89	3-11	1702	3341	Mon	i.p. F NR 1072/EX 0058 RMKS 8547 TO 8540 = C2/ET AR F NR 5076/EX 0102 RMKS 8540 TO 8547 = A2/T5 AR	CW	(JPL)
M89	3-11	1720	4680	Mon	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	3-11	1720	6840	Mon	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	3-11	1725	4610	Mon	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	3-11	1842	4349	Mon	i.p.	CW	(JPL)
M89	3-11	1851	4626	Mon	i.p.	CW	(JPL)
M89	5-11	1127	8117	Wed	i.p. RMKS 2196 TO 2549 =	CW	(JPL)
M89	5-11	1210	4357	Wed	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	5-11	1210	5742	Wed	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	5-11	1213	5309	Wed	i.p.	CW	(JPL)
M89	5-11	1231	5443	Wed	i.p.	CW	(JPL)
M89	5-11	1233	5412	Wed	i.p. NR 1672/EX 1233 = 9GJ/X7A AR NR 1672/EX 1233 = S8/X89A AR QSY 62 FFF NR 1673/EC 1230 =6/GUC AR QSY ...	CW	(JPL)
M89	7-11	1218	3374	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	7-11	1218	4357	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	7-11	1218	5742	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	7-11	1220	4680	Fri	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	7-11	1220	6840	Fri	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	7-11	1230	4720	Fri	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	7-11	1230	5150	Fri	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	7-11	1230	5680	Fri	OHB DE WLC M89 (R5) QSA ? K (Previously sent GHB instead of OHB.)	CW	(JPL)
M89	7-11	1240	4850	Fri	VVV KNG (x3) DE CQ2 (X2) (R5) QSA ? K	CW	(JPL)
M89	7-11	1240	5450	Fri	VVV KNG (x3) DE CQ2 (X2) (R5) QSA ? K	CW	(JPL)
M89	7-11	1656	4357	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	7-11	1656	5742	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)

M89	7-11	1658	4610	Fri	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	7-11	1705	4680	Fri	V Q2M (x3) DE NY (x2) (R5) QSA ? K	CW	(JPL)
M89	7-11	1705	6840	Fri	V Q2M (x3) DE NY (x2) (R5) QSA ? K	CW	(JPL)
M89	7-11	1720	3809	Fri	i.p.	CW	(JPL)
M89	8-11	1703	4357	Sat	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	8-11	1703	5742	Sat	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	8-11	1704	4610	Sat	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	8-11	1706	7801	Sat	i.p.	CW	(JPL)
M89	8-11	1720	4680	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	8-11	1720	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	9-11	1207	5586.5	Sun	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	9-11	1208	4610	Sun	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	9-11	1210	3374	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	9-11	1210	4357	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	9-11	1210	5742	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	9-11	1220	4680	Sun	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	9-11	1220	6840	Sun	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	9-11	1230	4720	Sun	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	9-11	1230	5150	Sun	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	9-11	1320	4680	Sun	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	9-11	1320	6840	Sun	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	9-11	1330	4720	Sun	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	9-11	1330	5150	Sun	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	9-11	1400	8888	Sun	i.p.	CW	(JPL)
M89	9-11	1818	3374	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	9-11	1818	4357	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	9-11	1818	5742	Sun	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	9-11	1820	4680	Sun	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	9-11	1820	6840	Sun	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	9-11	1830	4456	Sun	V Y3JI DE N6WX	CW	(JPL)
M89	9-11	1835	4610	Sun	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	10-11	1155	7975	Mon	i.p. NR 131. CK 99 81 1110 1710 RMKS 1566 TO1562 =	CW	(JPL)
M89	10-11	1159	5586.5	Mon	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	10-11	1203	8787	Mon	i.p.	CW	(JPL)
M89	10-11	1215	6726	Mon	i.p.	CW	(JPL)
M89	10-11	1218	6565	Mon	i.p. F NR 3489 NR 4475 4000 /EX SK SK 3585 5506 = VVV	CW	(JPL)
M89	10-11	1220	4680	Mon	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	10-11	1220	6840	Mon	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	10-11	1224	6540	Mon	i.p.	CW	(JPL)
M89	10-11	1237	5774	Mon	i.p.	CW	(JPL)
M89	10-11	1240	5672	Mon	V Y3JI DE N6WX	CW	(JPL)
M89	10-11	1243	5577	Mon	i.p. NR 8472 CK 59 48 1110 2030 RMKS 9506 TO 0023 =	CW	(JPL)

M89	10-11	1248	5325	Mon	i.p.	CW	(JPL)
M89	10-11	1249	5310	Mon	i.p.	CW	(JPL)
M89	10-11	1251	5024	Mon	i.p.	CW	(JPL)
M89	10-11	1253	4731	Mon	i.p.	CW	(JPL)
M89	10-11	1313	4446	Mon	i.p. SVC QYZ8/2100/311 QYZ8/2100/312 K	CW	(JPL)
M89	10-11	1318	4167	Mon	i.p.	CW	(JPL)
M89	10-11	1320	4680	Mon	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	10-11	1320	6840	Mon	V Q2M (x3) DE NY (x2) (R5)	CW	(JPL)
M89	10-11	1329	6456	Mon	i.p.	CW	(JPL)
M89	10-11	1332	3374	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	10-11	1332	4357	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	10-11	1332	5742	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	10-11	1540	3511	Mon	i.p.	CW	(JPL)
M89	10-11	1544	3665	Mon	i.p.	CW	(JPL)
M89	10-11	1552	4610	Mon	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	10-11	1556	5586.5	Mon	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	10-11	1600	3374	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	10-11	1600	4357	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	10-11	1600	5742	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	10-11	1859	5586.5	Mon	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	10-11	1900	3374	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	10-11	1900	4357	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	10-11	1900	5742	Mon	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	10-11	1903	4610	Mon	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	13-11	1204	3374	Thu	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	13-11	1204	4357	Thu	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	13-11	1204	5742	Thu	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	13-11	1210	5433	Thu	i.p.	CW	(JPL)
M89	13-11	1239	5586.5	Thu	ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	13-11	1247	6323	Thu	i.p. NR 0733 CK 49 29 1113 248 RMKS 5410 TO 5410 =	CW	(JPL)
M89	13-11	1312	5478	Thu	i.p.	CW	(JPL)
M89	13-11	1316	5177	Thu	i.p.	CW	(JPL)
M89	13-11	1326	4610	Thu	V 9GWQ (x3) DE J2PX (x2) (new roundslip for this frequency. Replaced PD4N DE WY7H)	CW	(JPL)
M89	13-11	1546	5586.5	Thu	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	13-11	1836	3374	Thu	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	13-11	1836	4357	Thu	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	13-11	1836	5742	Thu	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	13-11	1853	4610	Thu	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	13-11	1905	5586.5	Thu	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	14-11	1219	3374	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	14-11	1219	4357	Fri	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	14-11	1222	4610	Fri	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)

M89	14-11	1224	5586.5	Fri	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	14-11	1234	5232	Fri	i.p. NR 070/CCK CK 51 28 1114 RMKS 958 TO .804.. 815 0135 =	CW	(JPL)
M89	14-11	1300	4474	Fri	i.p. NR... CK 299 64 1114 2010 RMKS 2176 TO 2177 =	CW	(JPL)
M89	14-11	1623	4775	Fri	i.p. FFF NR 782/EX 0122 RMKS 2926 TO 2983 = A2D3/T88 AR	CW	(JPL)
M89	14-11	1901	5758	Fri	i.p.	CW	(JPL)
M89	15-11	1203	4357	Sat	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	15-11	1212	4610	Sat	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	15-11	1213	5586.5	Sat	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	15-11	1620	4680	Sat	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	15-11	1620	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	15-11	1626	4610	Sat	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	15-11	1638	5534	Sat	i.p.	CW	(JPL)
M89	16-11	1250	4357	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	16-11	1250	5742	Sun	V 3JWV (x3) DE QH4P (x2) (Note: Now using QH4P)	CW	(JPL)
M89	16-11	1258	4450	Sun	i.p.	CW	(JPL)
M89	16-11	1300	4610	Sun	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	16-11	1303	5131	Sun	i.p.	CW	(JPL)
M89	16-11	1307	5586.5	Sun	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	16-11	1320	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	16-11	1325	4873	Sun	i.p. F NR 020/EX 2124 RMKS 8044 TO 8025 = AC2O/ZDBH AR NR 21 CK 71 34 1116 2100 RMKS 8044 TO 8025 =	CW	(JPL)
M89	16-11	1343	5507	Sun	i.p.	CW	(JPL)
M89	16-11	1344	5514	Sun	i.p.	CW	(JPL)
M89	16-11	1349	5500	Sun	i.p. NR 12 (SDR timeout)	CW	(JPL)
M89	16-11	1840	5036	Sun	i.p.	CW	(JPL)
M89	16-11	1850	3374	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	16-11	1916	4357	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	16-11	1919	4610	Sun	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	16-11	1920	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	16-11	1920	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	16-11	1950	5742	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	17-11	1631	7615	Mon	i.p.	CW	(JPL)
M89	17-11	1642	5796	Mon	i.p. F NR 4491/EX 0139 RMKS 8959 TO 8933 = 4.N/NYJ AR (Very weak)	CW	(JPL)
M89	17-11	1844	6788	Mon	i.p.	CW	(JPL)
M89	17-11	1853	5586.5	Mon	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	17-11	1857	4610	Mon	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	17-11	1900	3374	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	17-11	1900	4357	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	17-11	1900	5742	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	18-11	1200	4357	Tue	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	18-11	1200	5742	Tue	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	18-11	1211	4272	Tue	i.p. RMKS ..08 TO 0GGZ =	CW	(JPL)

M89	18-11	1219	4553	Tue	i.p.	CW	(JPL)
M89	18-11	1220	4860	Tue	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	18-11	1220	6840	Tue	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	18-11	1229	7632	Tue	i.p.	CW	(JPL)
M89	18-11	1237	7123	Tue	i.p.	CW	(JPL)
M89	18-11	1241	5546	Tue	i.p.	CW	(JPL)
M89	18-11	1247	4023	Tue	i.p. NR 288 CK 490 11 1118 2040 RMKS 5333 TO 5264 =	CW	(JPL)
M89	18-11	1249	3965	Tue	i.p.	CW	(JPL)
M89	18-11	1312	5586.5	Tue	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	18-11	1314	5656	Tue	i.p. NR .. RMKS TO = (Extremely weak)	CW	(JPL)
M89	18-11	1320	4860	Tue	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	18-11	1320	6840	Tue	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	19-11	1130	4720	Wed	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	19-11	1130	5150	Wed	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	19-11	1203	4357	Wed	V 3JWV (x3) DE QSVP (x2)	CW	(JPL)
M89	19-11	1205	4416	Wed	i.p. RMKS 3176 TO 3128 K	CW	(JPL)
M89	19-11	1233	5323	Wed	i.p.	CW	(JPL)
M89	19-11	1239	5687	Wed	FGD3 i.p. NR 103 CK 49 93 053 1119 30 RMKS 3876 TO 4135 =	CW	(JPL)
M89	19-11	1244	5741	Wed	V 3JWV (x3) DE QSVP (x2) 375/1783/5222//56/1550/553/B AR	CW	(JPL)
M89	19-11	1251	5776	Wed	i.p. NR 152 CK 81 77 11119 2037 RMKS 9471 TO .684 =	CW	(JPL)
M89	19-11	1254	6020	Wed	i.p.	CW	(JPL)
M89	19-11	1610	3374	Wed	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	19-11	1610	4357	Wed	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	19-11	1610	5742	Wed	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	19-11	1613	3398	Wed	i.p.	CW	(JPL)
M89	19-11	1627	4610	Wed	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	19-11	1635	5547	Wed	i.p.	CW	(JPL)
M89	19-11	1636	5586.5	Wed	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	19-11	1640	5672	Wed	V Y3JI DE N6WX	CW	(JPL)
M89	19-11	1718	4477	Wed	i.p. F NR 783/EX 0105 RMKS 4961 TO 2581 = W9A4/L2T0 AR K. F NR 783/EX 0108 RMKS 2581 TO 4961 = W9A4/L2T0 AR K	CW	(JPL)
M89	19-11	1720	4860	Wed	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	19-11	1720	6840	Wed	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	19-11	1920	4860	Wed	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	19-11	1920	6840	Wed	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	20-11	1211	7768	Thu	i.p. NR ... CK 41 91 1120 2000 RMKS 8833 TO 59...886. =	CW	(JPL)
M89	20-11	1220	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5)	CW	(JPL)
M89	20-11	1227	4357	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	20-11	1233	6323	Thu	i.p. NR 051 CK 39 .. 1120 RMKS 5411 TO 5410 K	CW	(JPL)
M89	20-11	1244	5672	Thu	Y3JI DE N6WX	CW	(JPL)
M89	20-11	1247	5586.5	Thu	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	20-11	1248	5498	Thu	i.p. TO 7212 725. 7250 7263 =	CW	(JPL)

M89	20-11	1255	4958	Thu	i.p.	CW	(JPL)
M89	20-11	1301	4610	Thu	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	20-11	1304	4551	Thu	i.p.	CW	(JPL)
M89	20-11	1306	4550	Thu	i.p. NR 6..8/EX 2110 = J3T/.P AR	CW	(JPL)
M89	20-11	1705	3374	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	20-11	1705	4357	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	20-11	1705	5742	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	20-11	1710	3950	Thu	V B7S (x3) DE OYH (x2) (R5) QRU ? K	CW	(JPL)
M89	20-11	1725	5586.5	Thu	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	21-11	1232	8888	Fri	i.p.	CW	(JPL)
M89	21-11	1300	5678	Fri	i.p.	CW	(JPL)
M89	21-11	1303	5586.5	Fri	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	21-11	1313	5446	Fri	i.p.	CW	(JPL)
M89	21-11	1324	4357	Fri	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	21-11	1324	5742	Fri	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	21-11	1329	4610	Fri	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	21-11	1620	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	21-11	1620	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	21-11	1629	4357	Fri	V 3JWV (x3) DE QH4P (x2) /2522/515/B K	CW	(JPL)
M89	21-11	1632	4610	Fri	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	21-11	1640	5586.5	Fri	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	22-11	0020	4860	Sat	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	22-11	0020	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	22-11	0044	7825	Sat	MXN6 i.p. F NR 0651/EX 0841 RMKS CQ = 62IE/50 AR	CW	(JPL)
M89	22-11	0048	8310	Sat	i.p.	CW	(JPL)
M89	22-11	0056	8899	Sat	i.p.	CW	(JPL)
M89	22-11	0103	10481	Sat	P9TK i.p.	CW	(JPL)
M89	22-11	0120	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	22-11	0120	8290	Sat	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	22-11	1120	4680	Sat	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	22-11	1120	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	22-11	1126	6848	Sat	i.p.	CW	(JPL)
M89	22-11	1130	4720	Sat	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	22-11	1130	5150	Sat	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	22-11	1203	4357	Sat	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	22-11	1203	5742	Sat	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	22-11	1205	5586.5	Sat	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	22-11	1430	5150	Sat	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	22-11	1431	4610	Sat	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	22-11	1440	5660	Sat	i.p.	CW	(JPL)
M89	22-11	1818	5044	Sat	i.p. RPT NR 178/CCK 178	CW	(JPL)
M89	23-11	1255	5586.5	Sun	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)

M89	23-11	1303	4357	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	23-11	1303	5742	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	23-11	1930	4357	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	23-11	1930	5742	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	23-11	1938	4610	Sun	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	24-11	1110	4357	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	24-11	1110	5742	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	24-11	1220	4860	Mon	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	24-11	1220	6840	Mon	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	24-11	1225	4610	Mon	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	24-11	1230	4720	Mon	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	24-11	1231	5551	Mon	i.p. NR 192 CK 81 88 1124 2046 RMKS 9476 TO 9683 =	CW	(JPL)
M89	24-11	1249	5248	Mon	i.p.	CW	(JPL)
M89	24-11	1252	5551	Mon	i.p.	CW	(JPL)
M89	24-11	1752	7139	Mon	i.p. NR 209 CK 218 91 1125 0040 RMKS 20CG TO HH =	CW	(JPL)
M89	24-11	1807	4572.5	Mon	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M = (ex 5586.5 kHz)	CW	(JPL)
M89	24-11	1810	4610	Mon	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	24-11	1817	4357	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	24-11	1817	5742	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	24-11	1820	4860	Mon	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	24-11	1820	6840	Mon	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	25-11	1411	4145	Tue	i.p.	CW	(JPL)
M89	25-11	1415	3374	Tue	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	25-11	1415	4357	Tue	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	25-11	1419	4610	Tue	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	25-11	1420	4860	Tue	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	25-11	1420	6840	Tue	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	25-11	1427	5237	Tue	i.p. NR 1515 CK 77 86 1125 2200 RMKS 1599 TO 8582 =	CW	(JPL)
M89	25-11	1732	4627	Tue	i.p.	CW	(JPL)
M89	25-11	1735	4873	Tue	i.p.	CW	(JPL)
M89	27-11	1018	4357	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	27-11	1020	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	27-11	1020	8290	Thu	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M89	27-11	1052	8689	Thu	MXN6 i.p. F NR 0829/EX 1847 RMK CQ = N0/C4 AR NR 289 3 CK 65 79 1127 1830 RMKS CQ =	CW	(JPL)
M89	27-11	1804	5586.5	Thu	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M = (back on 5586.5 kHz)	CW	(JPL)
M89	27-11	1807	4357	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	27-11	1807	5742	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	29-11	1940	3374	Sat	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	29-11	1940	4357	Sat	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	29-11	1940	5742	Sat	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	29-11	2002	6524	Sat	i.p	CW	(JPL)

M89	30-11	2009	3374	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	30-11	2009	4357	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	30-11	2017	4572.5	Sun	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	30-11	2020	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5) QRU ? K	CW	(JPL)
M95	2-11	1149	4542	Sun	V BNGC DE XS30 NR 1048 CK 635 35 1102 1629 = //6876 kHz	CW	(JPL)
M95	2-11	1149	6876	Sun	V BNGC DE XS30 NR 1048 CK 635 35 1102 1629 = //4542 kHz	CW	(JPL)
M95	2-11	1150	4156	Sun	i.p. //9042 kHz	CW	(JPL)
M95	2-11	1150	9042	Sun	i.p. //4156 kHz	CW	(JPL)
M95	2-11	1159	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	2-11	1159	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	2-11	1232	5454	Sun	i.p. NR 4766/CCK CK 145 24 1102 1565 RMKS 6815 TO 68DWK	CW	(JPL)
M95	3-11	1233	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	3-11	1233	6886	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	3-11	1256	4468	Mon	i.p. NR 008/CCK CK 91 68 1103 2054 RMKS 1234 TO 5678 K	CW	(JPL)
M95	5-11	1115	11475	Wed	V WCJJ (x3) DE HBDD (x2) M95 (Remote tuner Hong Kong) JPL WED	CW	(JPL)
M95	5-11	1152	4542	Wed	V BNGC DE XS30 NR 1067 CK 053 35 1105 1208 = //6876 kHz	CW	(JPL)
M95	5-11	1152	6876	Wed	V BNGC DE XS30 NR 1067 CK 053 35 1105 1208 = //4542 kHz	CW	(JPL)
M95	7-11	1149	4542	Fri	V BNGC DE XS30 NR 1083 CK 641 35 1107 1647 = //6876 kHz	CW	(JPL)
M95	7-11	1149	6876	Fri	V BNGC DE XS30 NR 1083 CK 641 35 1107 1647 = //4542 kHz	CW	(JPL)
M95	7-11	1154	4156	Fri	NR 14 CK 142 35 1107 1532 = NR 051 CK 16 35 1107 1618 = //9042 kHz	CW	(JPL)
M95	7-11	1154	9042	Fri	NR 14 CK 142 35 1107 1532 = NR 051 CK 16 35 1107 1618 = //4156 kHz	CW	(JPL)
M95	8-11	1700	3903	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	8-11	1700	6886	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	9-11	1155	4156	Sun	NR 019 CK 38 35 1111 1446 = NR 072 CK 21 35 1114 1506 = NR 28 CK 125 35 1114 1508 = //9042 kHz	CW	(JPL)
M95	9-11	1155	4542	Sun	V BNGC DE XS30 NR 1091 CK 054 35 1109 1630 = NR 1092 CK 954 35 1109 1631 = //6876 kHz	CW	(JPL)
M95	9-11	1155	6876	Sun	V BNGC DE XS30 NR 1091 CK 054 35 1109 1630 = NR 1092 CK 954 35 1109 1631 = //4542 kHz	CW	(JPL)
M95	9-11	1155	9042	Sun	NR 019 CK 38 35 1111 1446 = NR 072 CK 21 35 1114 1506 = NR 28 CK 125 35 1114 1508 = //4156 kHz	CW	(JPL)
M95	9-11	1203	4156	Sun	i.p. //9042 kHz	CW	(JPL)
M95	9-11	1203	9042	Sun	i.p. //4156 kHz	CW	(JPL)
M95	9-11	1215	6557	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	9-11	1215	11475	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	9-11	1345	6557	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	9-11	1345	11475	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	9-11	1826	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	9-11	1826	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	9-11	1900	8001.5	Sun	Message	CW	(JPL)
M95	10-11	1234	5843	Mon	i.p. NR 16../CCK CK 51 .. 1110 ..29 RMKS 6591 TO 6531 =	CW	(JPL)
M95	10-11	1547	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)

M95	10-11	1547	6886	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	10-11	1907	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	10-11	1907	6886	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	13-11	1152	6876	Thu	i.p. //4542 kHz	CW	(JPL)
M95	13-11	1159	9042	Thu	i.p. //4156 kHz	CW	(JPL)
M95	13-11	1201	6557	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	13-11	1201	11475	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	13-11	1833	3903	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	13-11	1833	6886	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	14-11	1130	4720	Fri	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M95	14-11	1130	5150	Fri	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M95	14-11	1146	4542	Fri	V BNGC DE XS30 NR 1113 CK 37 35 1114 1629 = NR 1114 CK 550 35 1114 1635 = //6876 kHz	CW	(JPL)
M95	14-11	1146	6876	Fri	V BNGC DE XS30 NR 1113 CK 37 35 1114 1629 = NR 1114 CK 550 35 1114 1635 = //4542 kHz	CW	(JPL)
M95	14-11	1216	6557	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	14-11	1216	11475	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	14-11	1633	6557	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	14-11	1633	11475	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	15-11	1205	6557	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	15-11	1205	11475	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	15-11	1208	5656	Sat	i.p. NR 726/CCK CK 141 24 1115 2000 RMKS 2BGM TO WM2R K	CW	(JPL)
M95	15-11	1241	5485	Sat	i.p. MSG NR 88/CCK CK 349 1122 T850 RMKS .554 TO 8953 5332 3856 8964 5431 5.69 =	CW	(JPL)
M95	15-11	1241	5540	Sat	i.p.	CW	(JPL)
M95	15-11	1249	5541	Sat	i.p.	CW	(JPL)
M95	15-11	1608	3903	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	15-11	1608	6886	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	16-11	1313	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	16-11	1313	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	16-11	1905	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	16-11	1953	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	17-11	1624	7788	Mon	i.p. NR 837/CCK CK 148 04 1117 2340 RMKS 6980 TO 3916 =	CW	(JPL)
M95	17-11	1637	6557	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	17-11	1650	4455	Mon	i.p. NR 011/EX 0050 = Y5D4/G3KB AR NR 012/CCK CK 30 1118 0050 RMKS 9378 TO 6247 =	CW	(JPL)
M95	17-11	1837	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	17-11	1837	6886	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	18-11	1148	4542	Tue	V BNGC DE XS30 NR 1129 CK 648 35 1118 1636 = //6876 kHz	CW	(JPL)
M95	18-11	1148	6876	Tue	V BNGC DE XS30 NR 1129 CK 648 35 1118 1636 = //4542 kHz	CW	(JPL)
M95	18-11	1155	4156	Tue	NR 36 CK 165 35 1118 1522 = //9042 kHz	CW	(JPL)
M95	18-11	1155	9042	Tue	NR 36 CK 165 35 1118 1522 = //4156 kHz	CW	(JPL)
M95	18-11	1158	6557	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	18-11	1158	11475	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	18-11	1332	7821	Tue	i.p. NR 092/CCK CK 51 28 1118 2130 RMKS 0948 TO 0103 0939 0163 0121 =	CW	(JPL)

M95	19-11	1147	4542	Wed	V BNGC DE XS30 NR 1133 CK 045 35 1119 1633 = NR 1134 CK 634 35 1119 1645 = //6876 kHz	CW	(JPL)
M95	19-11	1147	6876	Wed	V BNGC DE XS30 NR 1133 CK 045 35 1119 1633 = NR 1134 CK 634 35 1119 1645 = //4542 kHz	CW	(JPL)
M95	19-11	1156	4156	Wed	NR 38 CK 159 35 1119 1531 = //9042 kHz	CW	(JPL)
M95	19-11	1156	9042	Wed	NR 38 CK 159 35 1119 1531 = //4156 kHz	CW	(JPL)
M95	19-11	1618	3903	Wed	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	19-11	1618	6886	Wed	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	20-11	1152	4542	Thu	BNGC DE XS30 //6876 kHz	CW	(JPL)
M95	20-11	1152	6876	Thu	BNGC DE XS30 //4542 kHz	CW	(JPL)
M95	20-11	1200	4156	Thu	i.p. //9042 kHz	CW	(JPL)
M95	20-11	1200	9042	Thu	i.p. //4156 kHz	CW	(JPL)
M95	20-11	1203	6557	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	21-11	1253	6557	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	21-11	1253	11475	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	21-11	1625	3903	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	21-11	1625	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	21-11	2330	4225	Fri	NR 1058 CK 92 35 1122 0711 82 = //9392 kHz	CW	(JPL)
M95	21-11	2330	9392	Fri	NR 1058 CK 92 35 1122 0711 82 = //4225 kHz	CW	(JPL)
M95	21-11	2349	4156	Fri	NR 094 CK 15 35 1122 0608 = NR 034 CK 30 35 1122 0630 = NR 43 CK 073 35 1122 0649 = //9042 kHz	CW	(JPL)
M95	21-11	2349	9042	Fri	NR 094 CK 15 35 1122 0608 = NR 034 CK 30 35 1122 0630 = NR 43 CK 073 35 1122 0649 = //4156 kHz	CW	(JPL)
M95	22-11	0012	4542	Sat	V BNGC DE XS30 NR 1143 CK 244 35 1122 0655 = //4542 kHz	CW	(JPL)
M95	22-11	0012	6876	Sat	V BNGC DE XS30 NR 1143 CK 244 35 1122 0655 = //4542	CW	(JPL)
M95	22-11	1145	6876	Sat	V BNGC DE XS30 NR 1145 CK 539 35 1122 1517 = //4542 kHz	CW	(JPL)
M95	22-11	1153	4156	Sat	NR 045 CK38 35 1122 1453 = NR 44 CK 188 35 1122 1508 = //9042 kHz	CW	(JPL)
M95	22-11	1153	9042	Sat	NR 045 CK38 35 1122 1453 = NR 44 CK 188 35 1122 1508 = //4156 kHz	CW	(JPL)
M95	22-11	1200	3903	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	22-11	1200	6886	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	23-11	1257	6557	Sun	V WCJJ (x3) DE HBDD (x2) M95 (Remote tuner Japan) JPL SUN	CW	(JPL)
M95	23-11	1257	11475	Sun	V WCJJ (x3) DE HBDD (x2) M95 (Remote tuner Japan) JPL SUN	CW	(JPL)
M95	23-11	2329	4225	Sun	V BNEC (X3) DE XS24 (X2) NR 1063 CK 141 35 1124 0707 83 = //9392 kHz	CW	(JPL)
M95	23-11	2329	9392	Sun	V BNEC (X3) DE XS24 (X2) NR 1063 CK 141 35 1124 0707 83 = //4225 kHz (This confirms XSV70 has changed to XS24 and changed freqs)	CW	(JPL)
M95	24-11	1106	6557	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	24-11	1106	11475	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	24-11	1725	3903	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	24-11	1735	4998	Mon	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	25-11	1015	6557	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	25-11	1015	11475	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	25-11	1417	3903	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)

M95	25-11	1417	6886	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	25-11	1744	3903	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	25-11	1744	6886	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	25-11	2318	9392	Tue	i.p. NR 10.. CK 112 35 1128 0654 823 = //4225 kHz	CW	(JPL)
M95	27-11	1148	11475	Thu	wcjj wcjj wcjj de hbdd hbdd	CW	(TJ)
M95	29-11	1943	3903	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	29-11	1943	6886	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	30-11	2006	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	30-11	2006	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
NB	1-11	1600	7517.5	Sat	Unid station a.k. New Buzzer	USB	(AB)
NB	1-11	1600	8098.5	Sat	Unid station a.k. New Buzzer	USB	(AB)
NB	1-11	1600	8422.5	Sat	Unid station a.k. New Buzzer	USB	(AB)
NB	2-11	1729	7517.5	Sun	Unid station a.k. New Buzzer	USB	(AB)
NB	2-11	1729	8098.5	Sun	Unid station a.k. New Buzzer	USB	(AB)
NB	2-11	1729	8422.5	Sun	Unid station a.k. New Buzzer	USB	(AB)
NB	3-11	1536	7517.5	Mon	Unid station a.k. New Buzzer	USB	(AB)
NB	3-11	1536	8098.5	Mon	Unid station a.k. New Buzzer	USB	(AB)
NB	3-11	1536	8422.5	Mon	Unid station a.k. New Buzzer	USB	(AB)
P03	1-11	1020	5823	Sat	Polish intel.	PSK	(AB)
P03	1-11	1025	5823	Sat	Polish intel.	PSK	(AB)
P03	1-11	1245	7391	Sat	Polish intel.	PSK	(AB)
P03	1-11	1250	7391	Sat	Polish intel.	PSK	(AB)
P03	1-11	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	1-11	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	2-11	0530	5844	Sun	Polish intel.	PSK	(AB)
P03	2-11	0535	5844	Sun	Polish intel.	PSK	(AB)
P03	2-11	1020	5823	Sun	Polish intel.	PSK	(AB)
P03	2-11	1025	5823	Sun	Polish intel.	PSK	(AB)
P03	2-11	1100	6977	Sun	Polish intel.	PSK	(AB)
P03	2-11	1105	6977	Sun	Polish intel.	PSK	(AB)
P03	2-11	1220	21906	Sun	Polish intel.	PSK	(AB)
P03	2-11	1225	21906	Sun	Polish intel.	PSK	(AB)
P03	2-11	1245	7391	Sun	Polish intel.	PSK	(AB)
P03	2-11	1250	7391	Sun	Polish intel.	PSK	(AB)
P03	2-11	1515	18265	Sun	Polish intel.	PSK	(AB)
P03	2-11	1520	18265	Sun	Polish intel.	PSK	(AB)
P03	2-11	1725	10728	Sun	Polish intel.	PSK	(AB)
P03	2-11	1730	10728	Sun	Polish intel.	PSK	(AB)
P03	3-11	1220	21906	Mon	Polish intel.	PSK	(AB)
P03	3-11	1225	21906	Mon	Polish intel.	PSK	(AB)
P03	3-11	1830	6906	Mon	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	3-11	1835	6906	Mon	Polish intel.	QPSK 100Bd/504pb	(AB)

P03	4-11	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	4-11	0435	6252	Tue	Polish intel.	PSK	(AB)
P03	4-11	1100	12202	Tue	Polish intel.	PSK	(AB)
P03	4-11	1105	12202	Tue	Polish intel.	PSK	(AB)
P03	4-11	1725	10728	Tue	Polish intel.	PSK	(AB)
P03	4-11	1730	10728	Tue	Polish intel.	PSK	(AB)
P03	5-11	1100	12202	Wed	Polish intel.	PSK	(AB)
P03	5-11	1105	12202	Wed	Polish intel.	PSK	(AB)
P03	5-11	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	5-11	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	6-11	0430	6252	Thu	Polish intel.	PSK	(AB)
P03	6-11	0435	6252	Thu	Polish intel.	PSK	(AB)
P03	6-11	0635	25195	Thu	Polish intel.	PSK	(AB)
P03	6-11	0640	25195	Thu	Polish intel.	PSK	(AB)
P03	6-11	1830	6906	Thu	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	6-11	1835	6906	Thu	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	6-11	1950	5844	Thu	Polish intel.	USB	(AB)
P03	6-11	1955	5844	Thu	Polish intel.	USB	(AB)
P03	7-11	0530	5844	Fri	Polish intel.	PSK	(AB)
P03	7-11	0535	5844	Fri	Polish intel.	PSK	(AB)
P03	7-11	1100	6977	Fri	Polish intel.	PSK	(AB)
P03	7-11	1105	6977	Fri	Polish intel.	PSK	(AB)
P03	7-11	1515	18265	Fri	Polish intel.	PSK	(AB)
P03	7-11	1520	18265	Fri	Polish intel.	PSK	(AB)
P03	8-11	1020	5823	Sat	Polish intel.	PSK	(AB)
P03	8-11	1025	5823	Sat	Polish intel.	PSK	(AB)
P03	8-11	1245	7391	Sat	Polish intel.	PSK	(AB)
P03	8-11	1250	7391	Sat	Polish intel.	PSK	(AB)
P03	8-11	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	8-11	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	9-11	0530	5844	Sun	Polish intel.	PSK	(TM)
P03	9-11	0535	5844	Sun	Polish intel.	PSK	(TM)
P03	9-11	1020	5823	Sun	Polish intel.	PSK	(AB)
P03	9-11	1025	5823	Sun	Polish intel.	PSK	(AB)
P03	9-11	1100	6977	Sun	Polish intel.	PSK	(AB)
P03	9-11	1105	6977	Sun	Polish intel.	PSK	(AB)
P03	9-11	1220	21906	Sun	Polish intel.	PSK	(AB)
P03	9-11	1225	21906	Sun	Polish intel.	PSK	(AB)
P03	9-11	1245	7391	Sun	Polish intel.	PSK	(AB)
P03	9-11	1250	7391	Sun	Polish intel.	PSK	(AB)
P03	9-11	1515	18265	Sun	Polish intel.	PSK	(AB)
P03	9-11	1520	18265	Sun	Polish intel.	PSK	(AB)

P03	9-11	1725	10728	Sun	Polish intel.	PSK	(AB)
P03	9-11	1730	10728	Sun	Polish intel.	PSK	(AB)
P03	9-11	1950	5844	Sun	Polish intel.	USB	(AB)
P03	9-11	1955	5844	Sun	Polish intel.	USB	(AB)
P03	10-11	1220	21906	Mon	Polish intel.	PSK	(AB)
P03	10-11	1225	21906	Mon	Polish intel.	PSK	(AB)
P03	10-11	1830	6906	Mon	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	10-11	1835	6906	Mon	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	11-11	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	11-11	0435	6252	Tue	Polish intel.	PSK	(AB)
P03	11-11	0635	25195	Tue	Polish intel.	PSK	(AB)
P03	11-11	0640	25195	Tue	Polish intel.	PSK	(AB)
P03	11-11	1100	12202	Tue	Polish intel.	PSK	(AB)
P03	11-11	1105	12202	Tue	Polish intel.	PSK	(AB)
P03	11-11	1725	10728	Tue	Polish intel.	PSK	(AB)
P03	11-11	1730	10728	Tue	Polish intel.	PSK	(AB)
P03	12-11	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	12-11	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	13-11	0430	6252	Thu	Polish intel.	PSK	(AB)
P03	13-11	0435	6252	Thu	Polish intel.	PSK	(AB)
P03	13-11	0635	25195	Thu	Polish intel.	PSK	(AB-POL)
P03	13-11	0640	25195	Thu	Polish intel.	PSK	(AB-POL)
P03	13-11	1830	6906	Thu	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	13-11	1835	6906	Thu	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	13-11	1950	5844	Thu	Polish intel.	USB	(AB)
P03	13-11	1955	5844	Thu	Polish intel.	USB	(AB)
P03	14-11	0530	5844	Fri	Polish intel.	PSK	(AB)
P03	14-11	0535	5844	Fri	Polish intel.	PSK	(AB)
P03	14-11	1100	6977	Fri	Polish intel.	PSK	(AB)
P03	14-11	1105	6977	Fri	Polish intel.	PSK	(AB)
P03	14-11	1515	18265	Fri	Polish intel.	PSK	(AB)
P03	14-11	1520	18265	Fri	Polish intel.	PSK	(AB)
P03	15-11	1020	5823	Sat	Polish intel.	PSK	(AB)
P03	15-11	1025	5823	Sat	Polish intel.	PSK	(AB)
P03	15-11	1245	7391	Sat	Polish intel.	PSK	(AB)
P03	15-11	1250	7391	Sat	Polish intel.	PSK	(AB)
P03	15-11	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	15-11	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	16-11	0530	5844	Sun	Polish intel.	PSK	(TM)
P03	16-11	0535	5844	Sun	Polish intel.	PSK	(TM)
P03	16-11	1020	5823	Sun	Polish intel.	PSK	(AB)
P03	16-11	1025	5823	Sun	Polish intel.	PSK	(AB)

P03	16-11	1100	6977	Sun	Polish intel.	PSK	(AB)
P03	16-11	1105	6977	Sun	Polish intel.	PSK	(AB)
P03	16-11	1220	21906	Sun	Polish intel.	PSK	(AB)
P03	16-11	1225	21906	Sun	Polish intel.	PSK	(AB)
P03	16-11	1245	7391	Sun	Polish intel.	PSK	(AB)
P03	16-11	1250	7391	Sun	Polish intel.	PSK	(AB)
P03	16-11	1515	18265	Sun	Polish intel.	PSK	(AB)
P03	16-11	1520	18265	Sun	Polish intel.	PSK	(AB)
P03	16-11	1725	10728	Sun	Polish intel.	PSK	(AB)
P03	16-11	1730	10728	Sun	Polish intel.	PSK	(AB)
P03	16-11	1950	5844	Sun	Polish intel.	USB	(AB)
P03	16-11	1955	5844	Sun	Polish intel.	USB	(AB)
P03	17-11	1220	21906	Mon	Polish intel.	PSK	(AB)
P03	17-11	1225	21906	Mon	Polish intel.	PSK	(AB)
P03	17-11	1830	6906	Mon	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	17-11	1835	6906	Mon	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	18-11	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	18-11	0435	6252	Tue	Polish intel.	PSK	(AB)
P03	18-11	1100	12202	Tue	Polish intel.	PSK	(AB)
P03	18-11	1105	12202	Tue	Polish intel.	PSK	(AB)
P03	18-11	1725	10728	Tue	Polish intel.	PSK	(AB)
P03	18-11	1730	10728	Tue	Polish intel.	PSK	(AB)
P03	19-11	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	19-11	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	20-11	0430	6252	Thu	Polish intel.	PSK	(AB)
P03	20-11	0435	6252	Thu	Polish intel.	PSK	(AB)
P03	20-11	0635	25195	Thu	Polish intel.	PSK	(AB-POL)
P03	20-11	0640	25195	Thu	Polish intel.	PSK	(AB-POL)
P03	20-11	1830	6906	Thu	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	20-11	1835	6906	Thu	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	20-11	1950	5844	Thu	Polish intel.	USB	(AB)
P03	20-11	1955	5844	Thu	Polish intel.	USB	(AB)
P03	21-11	0530	5844	Fri	Polish intel.	PSK	(AB)
P03	21-11	0535	5844	Fri	Polish intel.	PSK	(AB)
P03	21-11	1100	6977	Fri	Polish intel.	PSK	(AB)
P03	21-11	1105	6977	Fri	Polish intel.	PSK	(AB)
P03	21-11	1515	18265	Fri	No transmission	PSK	(AB)
P03	21-11	1520	18265	Fri	No transmission	PSK	(AB)
P03	22-11	1020	5823	Sat	No transmission	PSK	(AB)
P03	22-11	1025	5823	Sat	No transmission	PSK	(AB)
P03	22-11	1245	7391	Sat	No transmission	PSK	(AB)
P03	22-11	1250	7391	Sat	No transmission	PSK	(AB)

P03	22-11	1310	6524	Sat	No transmission	PSK	(AB)
P03	22-11	1315	6524	Sat	No transmission	PSK	(AB)
P03	23-11	0530	5844	Sun	No transmission	PSK	(TM)
P03	23-11	0535	5844	Sun	No transmission	PSK	(TM)
P03	23-11	1020	5823	Sun	No transmission	PSK	(AB)
P03	23-11	1025	5823	Sun	No transmission	PSK	(AB)
P03	23-11	1100	6977	Sun	No transmission	PSK	(AB)
P03	23-11	1105	6977	Sun	No transmission	PSK	(AB)
P03	23-11	1220	21906	Sun	No transmission	PSK	(AB)
P03	23-11	1225	21906	Sun	No transmission	PSK	(AB)
P03	23-11	1245	7391	Sun	No transmission	PSK	(AB)
P03	23-11	1250	7391	Sun	No transmission	PSK	(AB)
P03	23-11	1515	18265	Sun	No transmission	PSK	(AB)
P03	23-11	1520	18265	Sun	No transmission	PSK	(AB)
P03	23-11	1725	10728	Sun	No transmission	PSK	(AB)
P03	23-11	1730	10728	Sun	No transmission	PSK	(AB)
P03	23-11	1950	5844	Sun	No transmission	USB	(AB)
P03	23-11	1955	5844	Sun	No transmission	USB	(AB)
P03	24-11	1220	21906	Mon	Polish intel.	PSK	(AB)
P03	24-11	1225	21906	Mon	Polish intel.	PSK	(AB)
P03	24-11	1830	6906	Mon	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	24-11	1835	6906	Mon	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	25-11	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	25-11	0435	6252	Tue	Polish intel.	PSK	(AB)
P03	25-11	1100	12202	Tue	Polish intel.	PSK	(AB)
P03	25-11	1105	12202	Tue	Polish intel.	PSK	(AB)
P03	25-11	1725	10728	Tue	Polish intel.	PSK	(AB)
P03	25-11	1730	10728	Tue	Polish intel.	PSK	(AB)
P03	26-11	1100	12202	Wed	Polish intel.	PSK	(AB)
P03	26-11	1105	12202	Wed	Polish intel.	PSK	(AB)
P03	26-11	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	26-11	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	27-11	0430	6252	Thu	Polish intel.	PSK	(AB)
P03	27-11	0435	6252	Thu	Polish intel.	PSK	(AB)
P03	27-11	0635	25195	Thu	Polish intel.	PSK	(AB-POL)
P03	27-11	0640	25195	Thu	Polish intel.	PSK	(AB-POL)
P03	27-11	1830	6906	Thu	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	27-11	1835	6906	Thu	Polish intel.	QPSK 100Bd/504pb	(AB)
P03	27-11	1950	5844	Thu	Polish intel.	USB	(AB)
P03	27-11	1955	5844	Thu	Polish intel.	USB	(AB)
P03	28-11	0530	5844	Fri	Polish intel.	PSK	(AB)
P03	28-11	0535	5844	Fri	Polish intel.	PSK	(AB)

P03	28-11	1100	6977	Fri	Polish intel.	PSK	(AB)
P03	28-11	1105	6977	Fri	Polish intel.	PSK	(AB)
P03	28-11	1515	18265	Fri	Polish intel.	PSK	(AB)
P03	28-11	1520	18265	Fri	Polish intel.	PSK	(AB)
P03	29-11	1020	5823	Sat	Polish intel.	PSK	(AB)
P03	29-11	1025	5823	Sat	Polish intel.	PSK	(AB)
P03	29-11	1245	7391	Sat	Polish intel.	PSK	(AB)
P03	29-11	1250	7391	Sat	Polish intel.	PSK	(AB)
P03	29-11	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	29-11	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	30-11	0530	5844	Sun	Polish intel.	PSK	(TM)
P03	30-11	0535	5844	Sun	Polish intel.	PSK	(TM)
P03	30-11	1020	5823	Sun	Polish intel.	PSK	(AB)
P03	30-11	1025	5823	Sun	Polish intel.	PSK	(AB)
P03	30-11	1100	6977	Sun	Polish intel.	PSK	(AB)
P03	30-11	1105	6977	Sun	Polish intel.	PSK	(AB)
P03	30-11	1220	21906	Sun	Polish intel.	PSK	(AB)
P03	30-11	1225	21906	Sun	Polish intel.	PSK	(AB)
P03	30-11	1245	7391	Sun	Polish intel.	PSK	(AB)
P03	30-11	1250	7391	Sun	Polish intel.	PSK	(AB)
P03	30-11	1515	18265	Sun	Polish intel.	PSK	(AB)
P03	30-11	1520	18265	Sun	Polish intel.	PSK	(AB)
P03	30-11	1725	10728	Sun	Polish intel.	PSK	(AB)
P03	30-11	1730	10728	Sun	Polish intel.	PSK	(AB)
P03	30-11	1950	5844	Sun	Polish intel.	USB	(AB)
P03	30-11	1955	5844	Sun	Polish intel.	USB	(AB)
P03g	5-11	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	5-11	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	7-11	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	7-11	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	12-11	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	12-11	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	14-11	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	14-11	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	19-11	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	19-11	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	21-11	1315	13046	Fri	No transmission	BPSK 50Bd/464bp	(AB)
P03g	21-11	1320	13046	Fri	No transmission	BPSK 50Bd/464bp	(AB)
P03g	26-11	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	26-11	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	28-11	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	28-11	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)

P03i	4-11	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	4-11	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	6-11	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	6-11	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	11-11	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	11-11	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	13-11	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	13-11	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	18-11	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	18-11	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	20-11	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	20-11	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	25-11	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	25-11	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	27-11	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	27-11	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03k	1-11	0630	6480	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-11	0635	6480	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-11	1230	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-11	1235	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-11	1730	8180	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	1-11	1735	8180	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-11	0630	6480	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	2-11	0635	6480	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	5-11	1730	8180	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	5-11	1735	8180	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-11	0630	6480	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-11	0635	6480	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-11	1230	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-11	1235	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-11	1730	8180	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	8-11	1735	8180	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-11	0630	6480	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	9-11	0635	6480	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	12-11	1730	8180	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	12-11	1735	8180	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-11	0630	6480	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-11	0635	6480	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-11	1230	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-11	1235	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-11	1730	8180	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	15-11	1735	8180	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)

P03k	16-11	0630	6480	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	16-11	0635	6480	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-11	1730	8180	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	19-11	1735	8180	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	22-11	0630	6480	Sat	No transmission	BPSK 100Bd/480bp	(AB)
P03k	22-11	0635	6480	Sat	No transmission	BPSK 100Bd/480bp	(AB)
P03k	22-11	1230	18030	Sat	No transmission	BPSK 100Bd/480bp	(AB)
P03k	22-11	1235	18030	Sat	No transmission	BPSK 100Bd/480bp	(AB)
P03k	22-11	1730	8180	Sat	No transmission	BPSK 100Bd/480bp	(AB)
P03k	22-11	1735	8180	Sat	No transmission	BPSK 100Bd/480bp	(AB)
P03k	23-11	0630	6480	Sun	No transmission	BPSK 100Bd/480bp	(AB)
P03k	23-11	0635	6480	Sun	No transmission	BPSK 100Bd/480bp	(AB)
P03k	25-11	1230	18030	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	25-11	1235	18030	Tue	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-11	1730	8180	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	26-11	1735	8180	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-11	0630	6480	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-11	0635	6480	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-11	1230	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	29-11	1235	18030	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-11	0630	6480	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	30-11	0635	6480	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03l	3-11	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	3-11	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	4-11	0725	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	4-11	0730	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	4-11	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	4-11	0805	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	4-11	1500	9446	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	4-11	1505	9446	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-11	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-11	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-11	1345	8102	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-11	1350	8102	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	6-11	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	6-11	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	7-11	1345	8102	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	7-11	1350	8102	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	7-11	1500	9446	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	7-11	1505	9446	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	10-11	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	10-11	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)

P03I	11-11	0725	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-11	0730	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-11	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-11	0805	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-11	1500	9446	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-11	1505	9446	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-11	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-11	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-11	1345	8102	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-11	1350	8102	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	13-11	0725	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	13-11	0730	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	13-11	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	13-11	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	14-11	1345	8102	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	14-11	1350	8102	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	14-11	1500	9446	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	14-11	1505	9446	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-11	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-11	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-11	0725	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-11	0730	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-11	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-11	0805	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-11	1500	9446	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-11	1505	9446	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-11	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-11	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-11	1345	8102	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-11	1350	8102	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	20-11	0725	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	20-11	0730	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	20-11	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	20-11	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	21-11	1345	8102	Fri	No transmission	QPSK 100Bd/464bp	(AB)
P03I	21-11	1350	8102	Fri	No transmission	QPSK 100Bd/464bp	(AB)
P03I	21-11	1500	9446	Fri	No transmission	QPSK 100Bd/464bp	(AB)
P03I	21-11	1505	9446	Fri	No transmission	QPSK 100Bd/464bp	(AB)
P03I	24-11	0735	8800	Mon	No transmission	QPSK 100Bd/464bp	(AB)
P03I	24-11	0740	8800	Mon	No transmission	QPSK 100Bd/464bp	(AB)
P03I	25-11	0725	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-11	0730	9052	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)

P03I	25-11	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-11	0805	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-11	1500	9446	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-11	1505	9446	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-11	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-11	0805	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-11	1345	8102	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-11	1350	8102	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	27-11	0725	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	27-11	0730	9052	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	27-11	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	27-11	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-11	1345	8102	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-11	1350	8102	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-11	1500	9446	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	28-11	1505	9446	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P07	2-11	1500	8136	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-11	1510	8074	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-11	1520	7504	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-11	1530	6821	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-11	1540	5848	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	2-11	1550	5112	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-11	1500	8136	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-11	1510	8074	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-11	1520	7504	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-11	1530	6821	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-11	1540	5848	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	5-11	1550	5112	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-11	1500	8136	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-11	1510	8074	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-11	1520	7504	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-11	1530	6821	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-11	1540	5848	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	9-11	1550	5112	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	12-11	1500	8136	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	12-11	1510	8074	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	12-11	1520	7504	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	12-11	1530	6821	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	12-11	1540	5848	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	12-11	1550	5112	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-11	1500	8136	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-11	1510	8074	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)

P07	16-11	1520	7504	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-11	1530	6821	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-11	1540	5848	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	16-11	1550	5112	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-11	1500	8136	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-11	1510	8074	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-11	1520	7504	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-11	1530	6821	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-11	1540	5848	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	19-11	1550	5112	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-11	1500	8136	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-11	1510	8074	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-11	1520	7504	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-11	1530	6821	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-11	1540	5848	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	23-11	1550	5112	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-11	1500	8136	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-11	1510	8074	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-11	1520	7504	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-11	1530	6821	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-11	1540	5848	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	26-11	1550	5112	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-11	1500	8136	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-11	1510	8074	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-11	1520	7504	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-11	1530	6821	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-11	1540	5848	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	30-11	1550	5112	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
Q26	1-11	0917	16932	Sat	Chinese military: EBE4 DE C65Z calls	Q26 4+4 QPSK 75/3000 LSB	(EW)
Q26	2-11	1140	4542	Sun	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	2-11	1140	6876	Sun	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	5-11	1131	4542	Wed	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	5-11	1131	6876	Wed	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	7-11	1132	4542	Fri	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	7-11	1132	6876	Fri	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	9-11	1130	4542	Sun	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	9-11	1130	6876	Sun	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	9-11	1904	8001.5	Sun	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	14-11	1131	4542	Fri	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	14-11	1131	6876	Fri	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	15-11	1012	14805	Sat	Operator chat followed by a test message: 1234 1234 1234 1234 1234 1234 1234 1234 1234 1234 ...	4+4 QPSK 75/1000 LSB	(EW)

Q26	16-11	1338	5474	Sun	i.p.	4+4 QPSK 75/1000 LSB	(JPL)
Q26	18-11	1145	4542	Tue	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	18-11	1145	6876	Tue	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	18-11	1153	4156	Tue	Message //9042 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	18-11	1153	9042	Tue	Message //4156 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	19-11	1135	4542	Wed	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	19-11	1135	6876	Wed	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	21-11	1306	5569	Fri	Test tape: BRTCD ABCZ YEX// ABCD ABCD DE DCBA DCBA DCBA XYXYXYXY SK	4+4 QPSK 75/1000 LSB	(JPL)
Q26	21-11	2342	4156	Fri	Message //9042 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	21-11	2342	9042	Fri	Message //4156 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	22-11	0003	4542	Sat	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	22-11	0003	6876	Sat	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	22-11	1131	6876	Sat	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	23-11	2323	4225	Sun	BNEC BNEC BNEC DE VS24 VS24 F HR MSG TO YR PSE NOTE CY NR1063 CK141 35 1124 0707 -- //9392 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	23-11	2323	9392	Sun	BNEC BNEC BNEC DE VS24 VS24 F HR MSG TO YR PSE NOTE CY NR1063 CK141 35 1124 0707 -- //4225 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	25-11	1100	4334	Tue	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	25-11	1430	5257	Tue	AGN MSG NR9388 1804 5507 7687 ... MSG NR2728 1754 5507 2115 ...ZNN SK	4+4 QPSK 75/1000 LSB	(JPL)
Q26	29-11	2012	7913.5	Sat	Message	4+4 QPSK 75/1000 LSB	(JPL)
S06	5-11	0400	11616	Wed	480 563 21 32305 87072 66769 ... 49271 24149 41644 563 21 480 291 35 94242 38644 20296 ... 09713 76582 27760 291 35 00000	USB	(Su- bilo/HFD)
S06	5-11	0420	9322	Wed	480 563 21 32305 87072 66769 ... 49271 24149 41644 563 21 480 291 35 94242 38644 20296 ... 09713 76582 27760 291 35 00000	USB	(Su- bilo/HFD)
S06	6-11	0400	11616	Thu	480 563 21 32305 87072 66769 ... 49271 24149 41644 563 21 480 291 35 94242 38644 20296 ... 09713 76582 27760 291 35 00000	USB	(Subilo)
S06	6-11	0420	9322	Thu	480 563 21 32305 87072 66769 ... 49271 24149 41644 563 21 480 291 35 94242 38644 20296 ... 09713 76582 27760 291 35 00000	USB	(Subilo)
S06	7-11	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	7-11	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	7-11	2000	7923	Fri	842 842 842 00000	USB	(AB/HFD)
S06	7-11	2100	5928	Fri	842 842 842 00000	USB	(AB/HFD)
S06	10-11	0400	11616	Mon	480 753 60 70506 59796 57426 ... 12922 69573 38970 753 60 00000	USB	(Subilo)
S06	10-11	0420	9322	Mon	480 753 60 70506 59796 57426 ... 12922 69573 38970 753 60 00000	USB	(Subilo)
S06	11-11	0400	11616	Tue	480 753 60 70506 59796 57426 ... 12922 69573 38970 753 60 00000	USB	(Subilo)
S06	11-11	0420	9322	Tue	480 753 60 70506 59796 57426 ... 12922 69573 38970 753 60 00000	USB	(Subilo)
S06	12-11	0400	11616	Wed	480 692 19 01296 68553 81332 ... 38734 14347 48228 692 19 480 175 33 34055 65921 60524 ... 55603 87405 02910 175 33 00000	USB	(Subilo)
S06	12-11	0420	9322	Wed	480 692 19 01296 68553 81332 ... 38734 14347 48228 692 19 480 175 33 34055 65921 60524 ... 55603 87405 02910 175 33 00000	USB	(Subilo)
S06	13-11	0400	11616	Thu	480 692 19 01296 68553 81332 ... 38734 14347 48228 692 19 480 175 33 34055 65921 60524 ... 55603 87405 02910 175 33 00000	USB	(Subilo)

S06	13-11	0420	9322	Thu	480 692 19 01296 68553 81332 ... 38734 14347 48228 692 19 480 175 33 34055 65921 60524 ... 55603 87405 02910 175 33 00000	USB	(Subilo)
S06	14-11	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	14-11	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	17-11	0400	11616	Mon	480 396 51 76642 42410 39271 ... 20873 91506 52994 396 51 00000	USB	(Subilo)
S06	17-11	0420	9322	Mon	480 396 51 76642 42410 39271 ... 20873 91506 52994 396 51 00000	USB	(Subilo)
S06	18-11	0400	11616	Tue	480 396 51 76642 42410 39271 ... 20873 91506 52994 396 51 00000	USB	(Subilo)
S06	18-11	0420	9322	Tue	480 396 51 76642 42410 39271 ... 20873 91506 52994 396 51 00000	USB	(Subilo)
S06	19-11	0400	11616	Wed	480 152 37 07443 68220 58609 ... 15787 01158 71913 152 37 480 736 14 24022 16441 88688 ... 06308 26915 07826 736 14 00000	USB	(Subilo)
S06	19-11	0420	9322	Wed	480 152 37 07443 68220 58609 ... 15787 01158 71913 152 37 480 736 14 24022 16441 88688 ... 06308 26915 07826 736 14 00000	USB	(Subilo)
S06	20-11	0400	11616	Thu	480 152 37 07443 68220 58609 ... 15787 01158 71913 152 37 480 736 14 24022 16441 88688 ... 06308 26915 07826 736 14 00000	USB	(Subilo)
S06	20-11	0420	9322	Thu	480 152 37 07443 68220 58609 ... 15787 01158 71913 152 37 480 736 14 24022 16441 88688 ... 06308 26915 07826 736 14 00000	USB	(Subilo)
S06	21-11	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	21-11	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	21-11	2000	7923	Fri	842 763 51 05430 38851 16195 ... 23469 18115 63109 763 51 00000	USB	(AB/PY)
S06	21-11	2100	5928	Fri	842 763 51 05430 38851 16195 ... 23469 18115 63109 763 51 00000	USB	(AB/PY)
S06	22-11	2000	7923	Sat	842 763 51 05430 38851 16195 ... 23469 18115 63109 763 51 00000	USB	(PY)
S06	22-11	2100	5937	Sat	842 763 51 05430 38851 16195 ... 23469 18115 63109 763 51 00000	USB	(AB/PY)
S06	23-11	0400	11616	Sun	480 259 51 25106 74458 65185 ... 85813 95109 15215 259 51 00000	USB	(Subilo)
S06	23-11	0420	9322	Sun	480 259 51 25106 74458 65185 ... 85813 95109 15215 259 51 00000	USB	(Subilo)
S06	24-11	0400	11616	Mon	480 259 51 25106 74458 65185 ... 85813 95109 15215 259 51 00000	USB	(Subilo)
S06	24-11	0420	9322	Mon	480 259 51 25106 74458 65185 ... 85813 95109 15215 259 51 00000	USB	(Subilo)
S06	26-11	0400	11616	Wed	480 926 27 95581 30727 19370 ... 19973 58817 29758 926 27 480 137 29 87400 92936 65710 ... 07344 24307 40766 137 29 00000	USB	(Subilo)
S06	26-11	0420	9322	Wed	480 926 27 95581 30727 19370 ... 19973 58817 29758 926 27 480 137 29 87400 92936 65710 ... 07344 24307 40766 137 29 00000	USB	(Subilo)
S06	27-11	0400	11616	Thu	480 926 27 95581 30727 19370 ... 19973 58817 29758 926 27 480 137 29 87400 92936 65710 ... 07344 24307 40766 137 29 00000	USB	(Subilo)
S06	27-11	0420	9322	Thu	480 926 27 95581 30727 19370 ... 19973 58817 29758 926 27 480 137 29 87400 92936 65710 ... 07344 24307 40766 137 29 00000	USB	(Subilo)
S06	28-11	0400	11616	Fri	480 480 480 00000	USB	(Anon)
S06	28-11	0420	9322	Fri	480 480 480 00000	USB	(Anon)
S11a	1-11	0830	5371	Sat	379/00 Konets	USB	(AB/HFD)
S11a	1-11	1850	11486	Sat	287/00 Konets	USB	(AB/HFD)
S11a	2-11	0830	5371	Sun	378/00 Konets	USB	(AB)
S11a	3-11	0510	21906	Mon	657/30 Vnimanıye 61644 88892 57643 ... 83383 96881 03876 Vnimanıye (nessage re-peated) Konets	USB	(HFD)
S11a	3-11	0700	9050	Mon	470/00 Konets	USB	(AB/HFD)

S11a	3-11	0915	6252	Mon	480/00 Konets	USB	(AB/HFD)
S11a	4-11	0445	11559	Tue	797/00 Konets	USB	(AB/HFD)
S11a	4-11	1400	10448	Tue	426/00 Konets	USB	(AB/HFD)
S11a	5-11	0725	15919	Wed	Active, too weak to copy	USB	(AB)
S11a	5-11	0725	23486	Wed	385/31 Vnimanaye 77477 55008 40594 ... 07893 98334 75996 Vnimanaye (msg rptd) Konets	USB	(HFD)
S11a	5-11	1850	11486	Wed	285/34 Vnimanaye 08707 52575 01932 ... 41085 11775 22419 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	6-11	0700	9050	Thu	476/00 Konets	USB	(AB)
S11a	7-11	0725	19515	Fri	Active, barely audible	USB	(AB)
S11a	7-11	0725	23486	Fri	385/31 Vnimanaye 77477 55008 40594 ... 07893 98334 75996 Vnimanaye (msg rptd) Konets	USB	(Subilo)
S11a	7-11	0915	6252	Fri	483/00 Konets	USB	(AB)
S11a	7-11	1400	10448	Fri	424/00 Konets	USB	(AB)
S11a	8-11	0830	5371	Sat	370/00 Konets	USB	(AB)
S11a	8-11	1850	11486	Sat	28?/? (too weak to copy)	USB	(AB)
S11a	9-11	0830	5371	Sun	373/00 Konets	USB	(AB)
S11a	10-11	0700	9050	Mon	477/33 Vnimanaye 47508 87350 03962 ... 63221 12901 72746 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	10-11	0915	6252	Mon	480/31 Vnimanaye 25897 59009 90362 ... 04704 50374 81023 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	11-11	1400	10448	Tue	424/00 Konets	USB	(AB)
S11a	12-11	0725	15919	Wed	389/00 Out	USB	(AB)
S11a	12-11	1850	11486	Wed	285/00 Konets	USB	(AB)
S11a	14-11	0725	19515	Fri	380/00 Konets	USB	(AB)
S11a	14-11	0915	6252	Fri	480/31 Vnimanaye 25897 59009 90362 ... 04704 50374 81023 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	14-11	1400	10448	Fri	426/00 Konets	USB	(AB)
S11a	15-11	0830	5371	Sat	372/00 Konets	USB	(AB)
S11a	15-11	1850	11486	Sat	286/00 Konets	USB	(AB)
S11a	16-11	0830	5371	Sun	370/00 Konets	USB	(AB)
S11a	17-11	0700	9050	Mon	No transmission	USB	(AB)
S11a	17-11	0915	6252	Mon	486/00 Konets	USB	(AB)
S11a	18-11	1400	10448	Tue	No transmission	USB	(AB)
S11a	19-11	0725	15919	Wed	381/00 Out	USB	(AB)
S11a	19-11	1850	11486	Wed	285/00 Konets	USB	(AB)
S11a	20-11	0700	9050	Thu	470/00 Konets	USB	(AB)
S11a	21-11	0725	19515	Fri	383/00 Konets	USB	(AB)
S11a	21-11	0915	6252	Fri	482/00 Konets	USB	(AB)
S11a	21-11	1400	10448	Fri	No transmission	USB	(AB)
S11a	22-11	0830	5371	Sat	No transmission	USB	(AB)
S11a	22-11	1850	11486	Sat	No transmission	USB	(AB)
S11a	23-11	0830	5371	Sun	No transmission	USB	(AB)
S11a	24-11	0700	9050	Mon	No transmission	USB	(AB)
S11a	24-11	0915	6252	Mon	No transmission	USB	(AB)
S11a	25-11	1400	10448	Tue	429/38 Vnimanaye 85040 78346 23916 ... 98418 20977 32223 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	26-11	0725	15919	Wed	Too weak to copy	USB	(AB)
S11a	26-11	1850	11486	Wed	287/00 Konets	USB	(AB)

S11a	27-11	0700	9050	Thu	470/00 Konets	USB	(AB)
S11a	28-11	0725	19515	Fri	382/00 Konets	USB	(AB)
S11a	28-11	0915	6252	Fri	485/00 Konets	USB	(AB)
S11a	28-11	1400	10448	Fri	427/38 Vnimanije 51917 63379 05597 ... 10120 62386 87423 Vnimanije (msg rptd) Konets	USB	(AB)
S11a	29-11	0830	5371	Sat	379/37 Vnimanije 50893 85324 97749 ... 16183 27704 70009 Vnimanije (msg rptd) Konets	USB	(AB/TJ)
S11a	29-11	1850	11486	Sat	285/00 Konets	USB	(AB)
S11a	30-11	0830	5371	Sun	371/37 Vnimanije 57987 36666 91078 ... 15478 71301 12291 Vnimanije (msg rptd) Konets	USB	(AB)
UM04	1-11	0803	4735	Sat	VVV VVV PROMRCh = 01 11 = 1000 1000 1050 1220 1730 ... 0800 0820 0870 1020 1490 = AR	CW	(AB-HNG)
UM04	2-11	0800	4735	Sun	VVV VVV PROMRCh = 02 11 = 1000 1010 1060 1220 1730 ... 0800 0810 0860 1020 1480 = AR	CW	(AB-HNG)
UM04	5-11	0806	4735	Wed	VVV VVV PROMRCh = 05 11 = 1000 1010 1060 1230 1750 ... 0800 0810 0860 1020 1490 = AR	CW	(AB-HNG)
UM04	6-11	0800	4735	Thu	VVV VVV PROMRCh = 06 11 = 1000 1010 1060 1230 1750 ... 0800 0810 0860 1020 1480 = AR	CW	(AB-HNG)
UM04	7-11	0800	4735	Fri	VVV VVV PROMRCh = 07 11 = 1000 1010 1060 1230 1750 ... 0800 0810 0860 1020 1480 = AR	CW	(AB-HNG)
UM04	8-11	0803	4735	Sat	VVV VVV PROMRCh = 08 11 = 1000 1000 1050 1230 1750 ... 0800 0800 0850 1010 1470 = AR	CW	(AB-HNG)
UM04	9-11	0800	4735	Sun	VVV VVV PROMRCh = 09 11 = 1000 _____ 1230 1760 ... 0800 0790 0840 1000 1460 = AR	CW	(Subilo)
UM04	10-11	0800	4735	Mon	VVV VVV PROMRCh = 10 11 = 1000 1010 1070 1240 1760 ... 0800 0790 0840 0000 1460 = AR	CW	(Subilo)
UM04	11-11	0800	4735	Tue	VVV VVV PROMRCh = 11 11 = 1000 1010 1060 1240 1760 ... 0800 0780 0830 0990 1450 = AR	CW	(Subilo)
UM04	12-11	0806	4735	Wed	VVV VVV PROMRCh = 13 11 = 1000 1010 1060 1240 1770 ... 0800 0780 0830 0990 1450 = AR	CW	(AB-HNG)
UM04	13-11	0802	4735	Thu	VVV VVV PROMRCh = 13 11 = 1000 1020 1070 1250 1780 ... 0800 0780 0830 0990 1450 = AR	CW	(AB-HNG)
UM04	14-11	0800	4735	Fri	VVV VVV PROMRCh = 14 11 = 1000 0960 1020 1200 1720 ... 0800 0760 0810 0980 1430 = AR	CW	(AB-HNG)
UM04	15-11	0800	4735	Sat	VVV VVV PROMRCh = 15 11 = 1000 1030 1080 1260 1800 ... 0800 0770 0820 0980 1430 = AR	CW	(AB-HNG)
UM04	16-11	0800	4735	Sun	VVV VVV PROMRCh = 16 11 = 1000 1030 1080 1260 1810 ... 0800 0760 0810 0980 1430 = AR	CW	(Subilo)
UM04	17-11	0800	4735	Mon	VVV VVV PROMRCh = 17 11 = 1000 1030 1080 1260 1810 ... 0800 0760 0810 0970 1430 = AR	CW	(Subilo)
UM04	18-11	0800	4735	Tue	VVV VVV PROMRCh = 18 11 = 1000 1030 1090 1270 1810 ... 0800 0760 0810 0970 1420 = AR	CW	(AB-GRC)
UM04	19-11	0800	4735	Wed	VVV VVV PROMRCh = 19 11 = 1000 1030 1080 1270 1810 ... 0800 0750 0800 0970 1420 = AR	CW	(AB-GRC)
UM04	20-11	0800	4735	Thu	VVV VVV PROMRCh = 20 11 = 1666 1636 1686 1276 1826 ... 6866 6756 6866 6966 1416 = AR	CW	(AB-HNG)
UM04	21-11	0800	4735	Fri	VVV VVV PROMRCh = 21 11 = 1000 1030 1080 1260 1810 ... 0800 0740 0790 0950 1400 = AR	CW	(AB-HNG)
UM04	22-11	0800	4735	Sat	VVV VVV PROMRCh = 22 11 = 1000 1020 1080 1260 1810 ... 0800 0740 0790 0950 1400 = AR	CW	(AB-HNG)
UM04	23-11	0800	4375	Sun	VVV VVV PROMRCh = 23 11 = 1000 1020 1080 1260 1800 ... 0800 0740 0780 0940 1400 = AR	CW	(AB)
UM04	23-11	0800	4735	Sun	VVV VVV PROMRCh = 24 11 = 1000 1000 1050 1240 1780 ... 0800 0730 0780 0940 1380 = AR	CW	(Subilo)
UM04	25-11	0800	4735	Tue	VVV VVV PROMRCh = 25 11 = 1000 1010 1060 1250 1780 ... 0800 0730 0780 0940 1380 = AR	CW	(Subilo)
UM04	26-11	0800	4735	Wed	VVV VVV PROMRCh = 26 11 = 1000 1000 1050 1230 1780 ... 0800 0720 0770 0930 1380 = AR	CW	(AB-GRC)
UM04	27-11	0800	4735	Thu	VVV VVV PROMRCh = 27 11 = 1000 1000 1050 1240 1780 ... 0800 0720 0770 0930 1370 = AR	CW	(Subilo)
UM04	28-11	0800	4735	Fri	VVV VVV PROMRCh = 28 11 = 1000 0990 1040 1230 1770 ... 0800 0720 0770 0930 1370 = AR	CW	(AB-HNG)
UM04	29-11	0800	4735	Sat	VVV VVV PROMRCh = 29 11 = 1000 0980 1040 1220 1750 ... 0800 0710 0760 0920 1360 = AR	CW	(AB-HNG)
UM04	30-11	0800	4375	Sun	VVV VVV PROMRCh = 30 11 = 1000 0980 1030 1210 1750 ... 0800 0710 0760 0920 1360 = AR	CW	(AB)
V07	2-11	0200	17431	Sun	414 414 414 1 2379 128 2379 128 13231 57252 44099 ... 6754 64483 45060 000 000	USB	(Dan/HFD)
V07	2-11	0220	16131	Sun	414 414 414 1 2379 128 2379 128 13231 57252 44099 ... 6754 64483 45060 000 000	USB	(HFD)
V07	2-11	0240	14431	Sun	414 414 414 1 2379 128 2379 128 13231 57252 44099 ... 6754 64483 45060 000 000	USB	(HFD)
V07	9-11	0200	17431	Sun	414 414 414 1 2523 125 2523 125 65213 17063 66160 ... 97642 07426 47307 000 000	USB	(Dan)
V07	16-11	0200	17431	Sun	414 414 414 1 7201 98 7201 98 74756 73909 47200 ... 07214 59239 51346 000 000	USB	(Dan)
V07	23-11	0200	17431	Sun	414 414 414 1 8047 103 8047 103 95395 53900 39568 ... 84169 35489 68911 000 000	USB	(Dan)
V07	25-11	1230	9351	Tue	261 261 261 1 9496 91 9496 91 97416 27774 67079 ... 45799 84712 14494 000 000	USB	(AB/PY)

V07	25-11	1250	10516	Tue	261 261 261 1 9496 91 9496 91 97416 27774 67079 ... 45799 84712 14494 000 000	USB	(AB/PY)
V07	25-11	1310	11431	Tue	261 261 261 1 9496 91 9496 91 97416 27774 67079 ... 45799 84712 14494 000 000	USB	(AB/PY)
V07	30-11	0200	17431	Sun	414 414 414 1 7316 115 7316 115 80747 26361 81560 ... 86425 49137 74276 000 000	USB	(Dan)
V26	7-11	1130	4542	Fri	Callup in Chinese voice //6876 khz	USB	(JPL)
V26	7-11	1130	6876	Fri	Callup in Chinese voice //4542 kHz	USB	(JPL)
V26	21-11	2340	4156	Fri	Callup in Chinese voice //9042 kHz	USB	(JPL)
V26	21-11	2340	9042	Fri	Callup in Chinese voice //4156 kHz	USB	(JPL)
V26	22-11	0001	4542	Sat	Callup in Chinese voice //6876 kHz	USB	(JPL)
V26	22-11	0001	6876	Sat	Callup in Chinese voice //4542 kHz	USB	(JPL)
V26	23-11	2320	4225	Sun	Callup in Chinese voice //9392 kHz	USB	(JPL)
V26	23-11	2320	9392	Sun	Callup in Chinese voice //4225 kHz	USB	(JPL)
X--	4-11	1505	19433	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	4-11	1508	18521	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	17-11	1330	15834	Mon	Russian intel.	MFSK-13/MFSK-21	(AB)
X06	5-11	0739	15819	Wed	MFA Moscow clg 256341: Russian embassy Beirut	MFSK-6	(Moon)
X06	6-11	1440	16132	Thu	MFA Moscow clg 352416: Russian embassy Dar es Salaam	MFSK-6	(HFD)
X06	7-11	0918	16219	Fri	MFA Moscow clg 324615: Russian embassy Madrid	MFSK-6	(AB/Moon)
X06	7-11	1012	13547	Fri	MFA Moscow clg 625413: Russian embassy Tel Aviv (ended at 1125z)	MFSK-6	(AB)
X06	9-11	0916	15710	Sun	MFA Moscow clg 261453: Russian embassy Cairo	MFSK-6	(RO)
X06	10-11	1617	16117	Mon	MFA Moscow clg 463125: Russian embassy Rabat	MFSK-6	(T101)
X06	11-11	1033	20813	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(Moon)
X06	12-11	1604	15651	Wed	MFA Moscow clg 435621: Russian embassy Maupito	MFSK-6	(Rycat)
X06	12-11	1619	20950	Wed	MFA Moscow clg 435621: Russian embassy Maupito	MFSK-6	(Rycat)
X06	12-11	1652	14930	Wed	MFA Moscow clg 435621: Russian embassy Maupito	MFSK-6	(Rycat)
X06	12-11	1701	12066	Wed	MFA Moscow clg 435621: Russian embassy Maupito	MFSK-6	(Anon)
X06	12-11	1794	15651	Wed	MFA Moscow clg 435621: Russian embassy Maupito	MFSK-6	(Rycat)
X06	13-11	1331	14419	Thu	MFA Moscow clg 521634: Russian embassy Bucharest	MFSK-6	(AB)
X06	15-11	0953	18591	Sat	MFA Moscow clg 435621: Russian embassy Maputo	MFSK-6	(AB)
X06	17-11	0826	14377	Mon	MFA Moscow clg 432516: Russian embassy Bern	MFSK-6	(AB/RO)
X06	17-11	0833	12152	Mon	MFA Moscow clg 432516: Russian embassy Bern	MFSK-6	(AB/RO)
X06	17-11	1527	17511	Mon	MFA Moscow clg 641523 Russian embassy Lusaka	MFSK-6	(AB)
X06	19-11	1548	13548	Wed	MFA Moscow clg 214356: Russian embassy Amman	MFSK-6	(AB)
X06	20-11	1248	16276	Thu	MFA Moscow clg 314265: Russian embassy Antananarivo	MFSK-6	(AB)
X06	20-11	1538	16277	Thu	MFA Moscow clg 436512 Russian embassy Harare	MFSK-6	(AB)
X06	24-11	0926	16117	Mon	MFA Moscow clg 463125: Russian embassy Rabat	MFSK-6	(AB)
X06	27-11	0801	17475	Thu	MFA Moscow clg 156234: Russian embassy Kampala	MFSK-6	(Moon)
X06	27-11	0808	14419	Thu	MFA Moscow clg 521634: Russian embassy Bucharest	MFSK-6	(AB)
X06	28-11	0924	12177	Fri	MFA Moscow clg 356412: Russian embassy Berlin	MFSK-6	(Moon)
X06	28-11	1015	20605	Fri	MFA Moscow clg 256134: Russian embassy Abidjan	MFSK-6	(AB/Moon)
XPA1	5-11	1310	13875	Wed	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB/HFD)
XPA1	5-11	1330	13375	Wed	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB/HFD)
XPA1	5-11	1350	10875	Wed	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB/HFD)

XPA1	7-11	1310	13875	Fri	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB)
XPA1	7-11	1330	13375	Fri	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB)
XPA1	7-11	1350	10875	Fri	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB)
XPA1	12-11	1310	13875	Wed	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB)
XPA1	12-11	1330	13375	Wed	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB)
XPA1	12-11	1350	10875	Wed	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB)
XPA1	14-11	1310	13875	Fri	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB)
XPA1	14-11	1330	13375	Fri	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB)
XPA1	14-11	1350	10875	Fri	838 838 838 1 02441 00046 17717 ... 12763 29865 23626	MFSK-20/10Bd	(AB)
XPA1	19-11	1310	13875	Wed	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA1	19-11	1330	13375	Wed	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA1	19-11	1350	10875	Wed	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA1	21-11	1310	13875	Fri	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA1	21-11	1330	13375	Fri	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA1	21-11	1350	10875	Fri	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA1	26-11	1310	13875	Wed	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA1	26-11	1330	13375	Wed	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA1	26-11	1350	10875	Wed	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA1	28-11	1310	13875	Fri	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA1	28-11	1330	13375	Fri	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA1	28-11	1350	10875	Fri	838 838 838 1 00606 00443 43450 ... 95433 10077 52702	MFSK-20/10Bd	(AB)
XPA2	1-11	0500	13892	Sat	00001 00228 88642 ... 31269 66278 23671	MFSK-16/20Bd	(AB)
XPA2	1-11	0510	16301	Sat	00001 00228 88642 ... 31269 66278 23671	MFSK-16/20Bd	(AB)
XPA2	1-11	0520	17436	Sat	00001 00228 88642 ... 31269 66278 23671	MFSK-16/20Bd	(AB)
XPA2	1-11	0530	18582	Sat	00001 00228 88642 ... 31269 66278 23671	MFSK-16/20Bd	(AB)
XPA2	1-11	0540	19084	Sat	00001 00228 88642 ... 31269 66278 23671	MFSK-16/20Bd	(AB)
XPA2	1-11	0550	20381	Sat	00001 00228 88642 ... 31269 66278 23671	MFSK-16/20Bd	(AB)
XPA2	1-11	0700	17459	Sat	00102 00224 22414 ... 49196 49376 20170	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	0710	18697	Sat	00102 00224 22414 ... 49196 49376 20170	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	0720	19273	Sat	00102 00224 22414 ... 49196 49376 20170	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	0730	20056	Sat	00102 00224 22414 ... 49196 49376 20170	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	0740	20992	Sat	00102 00224 22414 ... 49196 49376 20170	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	0750	22942	Sat	00102 00224 22414 ... 49196 49376 20170	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	0900	19456	Sat	04546 00001 00000 36251	MFSK-16/20Bd	(PY/HFD)
XPA2	1-11	0920	18371	Sat	04546 00001 00000 36251	MFSK-16/20Bd	(PY/HFD)
XPA2	1-11	0940	17421	Sat	04546 00001 00000 36251	MFSK-16/20Bd	(PY/HFD)
XPA2	1-11	1100	16249	Sat	00103 00285 71873 ... 52820 18432 65705	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1110	18334	Sat	00103 00285 71873 ... 52820 18432 65705	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1120	19264	Sat	00103 00285 71873 ... 52820 18432 65705	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1130	20118	Sat	00103 00285 71873 ... 52820 18432 65705	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1140	20951	Sat	00103 00285 71873 ... 52820 18432 65705	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1150	22869	Sat	00103 00285 71873 ... 52820 18432 65705	MFSK-16/20Bd	(AB/PY)

XPA2	1-11	1300	22917	Sat	00104 00221 98942 ... 05323 64882 74470	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1310	20789	Sat	00104 00221 98942 ... 05323 64882 74470	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1320	19543	Sat	00104 00221 98942 ... 05323 64882 74470	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1330	18241	Sat	00104 00221 98942 ... 05323 64882 74470	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1340	16252	Sat	00104 00221 98942 ... 05323 64882 74470	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1350	15809	Sat	00104 00221 98942 ... 05323 64882 74470	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1500	20847	Sat	00105 00281 02769 ... 66833 71023 71122	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1510	19184	Sat	00105 00281 02769 ... 66833 71023 71122	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1520	18358	Sat	00105 00281 02769 ... 66833 71023 71122	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1530	17435	Sat	00105 00281 02769 ... 66833 71023 71122	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1540	14967	Sat	00105 00281 02769 ... 66833 71023 71122	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1550	12267	Sat	00105 00281 02769 ... 66833 71023 71122	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1600	8126	Sat	03809 00001 00000 41653	MFSK-16/20Bd	(AB/HFD)
XPA2	1-11	1620	6826	Sat	03809 00001 00000 41653	MFSK-16/20Bd	(AB/HFD)
XPA2	1-11	1640	5326	Sat	03809 00001 00000 41653	MFSK-16/20Bd	(AB/HFD)
XPA2	1-11	1700	19434	Sat	00106 00257 47007 ... 30452 44926 40505	MFSK-16/20Bd	(AB-S/PY)
XPA2	1-11	1710	18233	Sat	00106 00257 47007 ... 30452 44926 40505	MFSK-16/20Bd	(AB-S/PY)
XPA2	1-11	1720	17463	Sat	00106 00257 47007 ... 30452 44926 40505	MFSK-16/20Bd	(AB-S/PY)
XPA2	1-11	1730	15864	Sat	00106 00257 47007 ... 30452 44926 40505	MFSK-16/20Bd	(AB-S/PY)
XPA2	1-11	1740	14984	Sat	00106 00257 47007 ... 30452 44926 40505	MFSK-16/20Bd	(AB-S/PY)
XPA2	1-11	1750	13967	Sat	00106 00257 47007 ... 30452 44926 40505	MFSK-16/20Bd	(AB-S/PY)
XPA2	1-11	1920	15918	Sat	Too weak to copy	MFSK-16/29Bd	(AB/PY)
XPA2	1-11	1930	14918	Sat	66107 00289 22049 ... 17168 78284 35647	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	1940	11478	Sat	Too weak to copy	MFSK-16/29Bd	(AB/PY)
XPA2	1-11	1950	11078	Sat	66107 00289 22049 ... 17168 78284 35647	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	2110	12223	Sat	00108 00216 22065 ... 36717 10198 37436	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	2120	11494	Sat	00108 00216 22065 ... 36717 10198 37436	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	2130	10829	Sat	00108 00216 22065 ... 36717 10198 37436	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	2140	10214	Sat	00108 00216 22065 ... 36717 10198 37436	MFSK-16/20Bd	(AB/PY)
XPA2	1-11	2150	9293	Sat	00108 00216 22065 ... 36717 10198 37436	MFSK-16/20Bd	(AB/PY)
XPA2	3-11	0800	11529	Mon	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB/HFD)
XPA2	3-11	0820	13429	Mon	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB/HFD)
XPA2	3-11	0840	13929	Mon	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB/HFD)
XPA2	3-11	0910	19354	Mon	02752 00001 00000 35657	MFSK-16/20Bd	(AB/HFD)
XPA2	3-11	0930	18551	Mon	02752 00001 00000 35657	MFSK-16/20Bd	(AB/HFD)
XPA2	3-11	0950	17452	Mon	02752 00001 00000 35657	MFSK-16/20Bd	(AB/HFD)
XPA2	3-11	1600	8126	Mon	00884 00098 17260 ... 45317 65982 63607	MFSK-16/20Bd	(AB)
XPA2	3-11	1620	6826	Mon	00884 00098 17260 ... 45317 65982 63607	MFSK-16/20Bd	(AB)
XPA2	3-11	1640	5326	Mon	00884 00098 17260 ... 45317 65982 63607	MFSK-16/20Bd	(AB)
XPA2	4-11	1100	10653	Tue	02138 00575 81979 ... 35950 71012 23441	MFSK-16/20Bd	(AB/HFD)
XPA2	4-11	1120	9353	Tue	02138 00575 81979 ... 35950 71012 23441	MFSK-16/20Bd	(AB/HFD)
XPA2	4-11	1140	8153	Tue	02138 00575 81979 ... 35950 71012 23441	MFSK-16/20Bd	(AB/HFD)

XPA2	4-11	1700	11158	Tue	00832 00114 01612 ... 71230 54571 60104	MFSK-16/20Bd	(PY/HFD)
XPA2	4-11	1720	10294	Tue	00832 00114 01612 ... 71230 54571 60104	MFSK-16/20Bd	(PY/HFD)
XPA2	4-11	1740	9193	Tue	00832 00114 01612 ... 71230 54571 60104	MFSK-16/20Bd	(PY/HFD)
XPA2	5-11	0800	11529	Wed	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB)
XPA2	5-11	0820	13429	Wed	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB)
XPA2	5-11	0840	13929	Wed	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB)
XPA2	5-11	0910	19354	Wed	03845 00000 00000 40156	MFSK-16/20Bd	(AB)
XPA2	5-11	0930	18551	Wed	03845 00000 00000 40156	MFSK-16/20Bd	(AB)
XPA2	5-11	0950	17452	Wed	03845 00000 00000 40156	MFSK-16/20Bd	(AB)
XPA2	5-11	1100	13393	Wed	08401 00334 40845 ... 45043 76755 46300	MFSK-16/20Bd	(AB/HFD)
XPA2	5-11	1120	12193	Wed	08401 00334 40845 ... 45043 76755 46300	MFSK-16/20Bd	(AB/HFD)
XPA2	5-11	1140	11093	Wed	08401 00334 40845 ... 45043 76755 46300	MFSK-16/20Bd	(AB/HFD)
XPA2	5-11	1200	13968	Wed	00840 00176 53825 ... 08802 53348 50535	MFSK-16/20Bd	(AB/HFD)
XPA2	5-11	1220	15968	Wed	00840 00176 53825 ... 08802 53348 50535	MFSK-16/20Bd	(AB/HFD)
XPA2	5-11	1240	17468	Wed	00840 00176 53825 ... 08802 53348 50535	MFSK-16/20Bd	(AB/HFD)
XPA2	6-11	0900	19456	Thu	00345 00350 32654 ... 04843 26133 64312	MFSK-16/20Bd	(AB)
XPA2	6-11	0920	18371	Thu	00345 00350 32654 ... 04843 26133 64312	MFSK-16/20Bd	(AB)
XPA2	6-11	0940	17421	Thu	00345 00350 32654 ... 04843 26133 64312	MFSK-16/20Bd	(AB)
XPA2	6-11	1100	13393	Thu	08401 00334 40845 ... 45043 76755 46300	MFSK-16/20Bd	(AB)
XPA2	6-11	1120	12193	Thu	08401 00334 40845 ... 45043 76755 46300	MFSK-16/20Bd	(AB)
XPA2	6-11	1140	11093	Thu	08401 00334 40845 ... 45043 76755 46300	MFSK-16/20Bd	(AB)
XPA2	6-11	1700	11158	Thu	00832 00114 01612 ... 71230 54571 60104	MFSK-16/20Bd	(AB)
XPA2	6-11	1720	10294	Thu	00832 00114 01612 ... 71230 54571 60104	MFSK-16/20Bd	(AB)
XPA2	6-11	1740	9193	Thu	00832 00114 01612 ... 71230 54571 60104	MFSK-16/20Bd	(AB)
XPA2	7-11	1100	10653	Fri	02138 00575 81979 ... 35950 71012 23441	MFSK-16/20Bd	(AB)
XPA2	7-11	1120	9353	Fri	02138 00575 81979 ... 35950 71012 23441	MFSK-16/20Bd	(AB)
XPA2	7-11	1140	8153	Fri	02138 00575 81979 ... 35950 71012 23441	MFSK-16/20Bd	(AB)
XPA2	7-11	1200	13968	Fri	00840 00176 53825 ... 08802 53348 50535	MFSK-16/20Bd	(AB)
XPA2	7-11	1220	15968	Fri	00840 00176 53825 ... 08802 53348 50535	MFSK-16/20Bd	(AB)
XPA2	7-11	1240	17468	Fri	00840 00176 53825 ... 08802 53348 50535	MFSK-16/20Bd	(AB)
XPA2	8-11	0900	19456	Sat	00345 00350 32654 ... 04843 26133 64312	MFSK-16/20Bd	(AB)
XPA2	8-11	0920	18371	Sat	00345 00350 32654 ... 04843 26133 64312	MFSK-16/20Bd	(AB)
XPA2	8-11	0940	17421	Sat	00345 00350 32654 ... 04843 26133 64312	MFSK-16/20Bd	(AB)
XPA2	8-11	1600	8126	Sat	00884 00098 17260 ... 45317 65982 63607	MFSK-16/20Bd	(AB)
XPA2	8-11	1620	6826	Sat	00884 00098 17260 ... 45317 65982 63607	MFSK-16/20Bd	(AB)
XPA2	8-11	1640	5326	Sat	00884 00098 17260 ... 45317 65982 63607	MFSK-16/20Bd	(AB)
XPA2	10-11	0800	11529	Mon	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB)
XPA2	10-11	0820	13429	Mon	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB)
XPA2	10-11	0840	13929	Mon	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB)
XPA2	10-11	1600	8126	Mon	02640 00001 00000 34256	MFSK-16/20Bd	(AB)
XPA2	10-11	1620	6826	Mon	02640 00001 00000 34256	MFSK-16/20Bd	(AB)
XPA2	10-11	1640	5326	Mon	02640 00001 00000 34256	MFSK-16/20Bd	(AB)

XPA2	11-11	1100	10653	Tue	01375 00384 56996 ... 34828 65907 13303	MFSK-16/20Bd	(AB)
XPA2	11-11	1120	9353	Tue	01375 00384 56996 ... 34828 65907 13303	MFSK-16/20Bd	(AB)
XPA2	11-11	1140	8153	Tue	01375 00384 56996 ... 34828 65907 13303	MFSK-16/20Bd	(AB)
XPA2	11-11	1700	11158	Tue	04505 00001 00000 36254	MFSK-16/20Bd	(AB)
XPA2	11-11	1720	10294	Tue	04505 00001 00000 36254	MFSK-16/20Bd	(AB)
XPA2	11-11	1740	9193	Tue	04505 00001 00000 36254	MFSK-16/20Bd	(AB)
XPA2	12-11	0800	11529	Wed	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB)
XPA2	12-11	0820	13429	Wed	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB)
XPA2	12-11	0840	13929	Wed	00869 00239 14651 ... 11450 75835 07734	MFSK-16/20Bd	(AB)
XPA2	12-11	0910	19354	Wed	02015 00568 80299 ... 18694 08126 62250	MFSK-16/20Bd	(AB)
XPA2	12-11	0930	18551	Wed	02015 00568 80299 ... 18694 08126 62250	MFSK-16/20Bd	(AB)
XPA2	12-11	0950	17452	Wed	02015 00568 80299 ... 18694 08126 62250	MFSK-16/20Bd	(AB)
XPA2	12-11	1100	13393	Wed	02581 00336 56132 ... 24606 80221 54302	MFSK-16/20Bd	(AB)
XPA2	12-11	1120	12193	Wed	02581 00336 56132 ... 24606 80221 54302	MFSK-16/20Bd	(AB)
XPA2	12-11	1140	11093	Wed	02581 00336 56132 ... 24606 80221 54302	MFSK-16/20Bd	(AB)
XPA2	12-11	1200	13968	Wed	00443 00346 46524 ... 11987 24184 33050	MFSK-16/20Bd	(AB)
XPA2	12-11	1220	15968	Wed	00443 00346 46524 ... 11987 24184 33050	MFSK-16/20Bd	(AB)
XPA2	12-11	1240	17468	Wed	00443 00346 46524 ... 11987 24184 33050	MFSK-16/20Bd	(AB)
XPA2	13-11	0900	19456	Thu	00881 00300 13945 ... 35481 05836 75434	MFSK-16/20Bd	(AB)
XPA2	13-11	0920	18371	Thu	00881 00300 13945 ... 35481 05836 75434	MFSK-16/20Bd	(AB)
XPA2	13-11	0940	17421	Thu	00881 00300 13945 ... 35481 05836 75434	MFSK-16/20Bd	(AB)
XPA2	13-11	1100	13393	Thu	02581 00336 56132 ... 24606 80221 54302	MFSK-16/20Bd	(AB)
XPA2	13-11	1120	12193	Thu	02581 00336 56132 ... 24606 80221 54302	MFSK-16/20Bd	(AB)
XPA2	13-11	1140	11093	Thu	02581 00336 56132 ... 24606 80221 54302	MFSK-16/20Bd	(AB)
XPA2	13-11	1700	11158	Thu	04959 00001 00000 42261	MFSK-16/20Bd	(AB)
XPA2	13-11	1720	10294	Thu	04959 00001 00000 42261	MFSK-16/20Bd	(AB)
XPA2	13-11	1740	9193	Thu	04959 00001 00000 42261	MFSK-16/20Bd	(AB)
XPA2	14-11	1100	10653	Fri	01375 00384 56996 ... 34828 65907 13303	MFSK-16/20Bd	(AB)
XPA2	14-11	1120	9353	Fri	01375 00384 56996 ... 34828 65907 13303	MFSK-16/20Bd	(AB)
XPA2	14-11	1140	8153	Fri	01375 00384 56996 ... 34828 65907 13303	MFSK-16/20Bd	(AB)
XPA2	14-11	1200	13968	Fri	00443 00346 46524 ... 11987 24184 33050	MFSK-16/20Bd	(AB)
XPA2	14-11	1220	15968	Fri	00443 00346 46524 ... 11987 24184 33050	MFSK-16/20Bd	(AB)
XPA2	14-11	1240	17468	Fri	00443 00346 46524 ... 11987 24184 33050	MFSK-16/20Bd	(AB)
XPA2	15-11	0900	19456	Sat	Technical problems. Off during the start sequence	MFSK-16/20Bd	(AB)
XPA2	15-11	0920	18371	Sat	00881 00300 13945 ... 35481 05836 75434	MFSK-16/20Bd	(AB)
XPA2	15-11	0940	17421	Sat	00881 00300 13945 ... 35481 05836 75434	MFSK-16/20Bd	(AB)
XPA2	15-11	1600	8126	Sat	09925 00001 00000 40263	MFSK-16/20Bd	(AB)
XPA2	15-11	1620	6826	Sat	09925 00001 00000 40263	MFSK-16/20Bd	(AB)
XPA2	15-11	1640	5326	Sat	09925 00001 00000 40263	MFSK-16/20Bd	(AB)
XPA2	17-11	0800	11529	Mon	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)
XPA2	17-11	0820	13429	Mon	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)
XPA2	17-11	0840	13929	Mon	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)

XPA2	17-11	0910	19354	Mon	00685 00300 79262 ... 90358 23917 36000	MFSK-16/20Bd	(AB)
XPA2	17-11	0930	18551	Mon	00685 00300 79262 ... 90358 23917 36000	MFSK-16/20Bd	(AB)
XPA2	17-11	0950	17452	Mon	00685 00300 79262 ... 90358 23917 36000	MFSK-16/20Bd	(AB)
XPA2	17-11	1600	8126	Mon	08856 00155 77805 ... 63470 39306 44336	MFSK-16/20Bd	(AB)
XPA2	17-11	1620	6826	Mon	08856 00155 77805 ... 63470 39306 44336	MFSK-16/20Bd	(AB)
XPA2	17-11	1640	5326	Mon	08856 00155 77805 ... 63470 39306 44336	MFSK-16/20Bd	(AB)
XPA2	18-11	1100	10653	Tue	03273 00579 92876 ... 88134 23712 06124	MFSK-16/20Bd	(AB)
XPA2	18-11	1120	9353	Tue	03273 00579 92876 ... 88134 23712 06124	MFSK-16/20Bd	(AB)
XPA2	18-11	1140	8153	Tue	03273 00579 92876 ... 88134 23712 06124	MFSK-16/20Bd	(AB)
XPA2	18-11	1700	11158	Tue	00962 00177 01732 ... 49714 34831 50131	MFSK-16/20Bd	(AB)
XPA2	18-11	1720	10294	Tue	00962 00177 01732 ... 49714 34831 50131	MFSK-16/20Bd	(AB)
XPA2	18-11	1740	9193	Tue	00962 00177 01732 ... 49714 34831 50131	MFSK-16/20Bd	(AB)
XPA2	19-11	0800	11529	Wed	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)
XPA2	19-11	0820	13429	Wed	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)
XPA2	19-11	0840	13929	Wed	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)
XPA2	19-11	0910	19354	Wed	00685 00300 79262 ... 90358 23917 36000	MFSK-16/20Bd	(AB)
XPA2	19-11	0930	18551	Wed	00685 00300 79262 ... 90358 23917 36000	MFSK-16/20Bd	(AB)
XPA2	19-11	0950	17452	Wed	00685 00300 79262 ... 90358 23917 36000	MFSK-16/20Bd	(AB)
XPA2	19-11	1100	13393	Wed	06749 00001 00000 41262	MFSK-16/20Bd	(AB)
XPA2	19-11	1120	12193	Wed	06749 00001 00000 41262	MFSK-16/20Bd	(AB)
XPA2	19-11	1140	11093	Wed	06749 00001 00000 41262	MFSK-16/20Bd	(AB)
XPA2	19-11	1200	13968	Wed	00198 00265 12550 ... 54104 26332 15000	MFSK-16/20Bd	(AB)
XPA2	19-11	1220	15968	Wed	00198 00265 12550 ... 54104 26332 15000	MFSK-16/20Bd	(AB)
XPA2	19-11	1240	17468	Wed	00198 00265 12550 ... 54104 26332 15000	MFSK-16/20Bd	(AB)
XPA2	20-11	0900	19456	Thu	02274 00000 00000 346601	MFSK-16/20Bd	(AB)
XPA2	20-11	0920	18371	Thu	02274 00000 00000 346601	MFSK-16/20Bd	(AB)
XPA2	20-11	0940	17421	Thu	02274 00000 00000 346601	MFSK-16/20Bd	(AB)
XPA2	20-11	1100	13393	Thu	08901 00001 00000 36260	MFSK-16/20Bd	(AB)
XPA2	20-11	1120	12193	Thu	08901 00001 00000 36260	MFSK-16/20Bd	(AB)
XPA2	20-11	1140	11093	Thu	08901 00001 00000 36260	MFSK-16/20Bd	(AB)
XPA2	20-11	1700	11158	Thu	00962 00177 01732 ... 49714 34831 50131	MFSK-16/20Bd	(AB)
XPA2	20-11	1720	10294	Thu	00962 00177 01732 ... 49714 34831 50131	MFSK-16/20Bd	(AB)
XPA2	20-11	1740	9193	Thu	00962 00177 01732 ... 49714 34831 50131	MFSK-16/20Bd	(AB)
XPA2	21-11	1100	10653	Fri	03273 00579 92876 ... 88134 23712 06124	MFSK-16/20Bd	(AB)
XPA2	21-11	1120	9353	Fri	03273 00579 92876 ... 88134 23712 06124	MFSK-16/20Bd	(AB)
XPA2	21-11	1140	8153	Fri	03273 00579 92876 ... 88134 23712 06124	MFSK-16/20Bd	(AB)
XPA2	21-11	1200	13968	Fri	00198 00265 12550 ... 54104 26332 15000	MFSK-16/20Bd	(AB)
XPA2	21-11	1220	15968	Fri	00198 00265 12550 ... 54104 26332 15000	MFSK-16/20Bd	(AB)
XPA2	21-11	1240	17468	Fri	00198 00265 12550 ... 54104 26332 15000	MFSK-16/20Bd	(AB)
XPA2	22-11	0900	19456	Sat	05883 00001 00000 36664	MFSK-16/20Bd	(AB)
XPA2	22-11	0920	18371	Sat	05883 00001 00000 36664	MFSK-16/20Bd	(AB)
XPA2	22-11	0940	17421	Sat	05883 00001 00000 36664	MFSK-16/20Bd	(AB)

XPA2	22-11	1600	8126	Sat	08856 00155 77805 ... 63470 39306 44336	MFSK-16/20Bd	(AB)
XPA2	22-11	1620	6826	Sat	08856 00155 77805 ... 63470 39306 44336	MFSK-16/20Bd	(AB)
XPA2	22-11	1640	5326	Sat	08856 00155 77805 ... 63470 39306 44336	MFSK-16/20Bd	(AB)
XPA2	24-11	0800	11529	Mon	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)
XPA2	24-11	0820	13429	Mon	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)
XPA2	24-11	0840	13929	Mon	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)
XPA2	24-11	0910	19354	Mon	00925 00081 53794 ... 66381 82115 51207	MFSK-16/20Bd	(AB)
XPA2	24-11	0930	18551	Mon	00925 00081 53794 ... 66381 82115 51207	MFSK-16/20Bd	(AB)
XPA2	24-11	0950	17452	Mon	00925 00081 53794 ... 66381 82115 51207	MFSK-16/20Bd	(AB)
XPA2	24-11	1600	8126	Mon	03487 00001 00000 36663	MFSK-16/20Bd	(AB)
XPA2	24-11	1620	6826	Mon	03487 00001 00000 36663	MFSK-16/20Bd	(AB)
XPA2	24-11	1640	5326	Mon	03487 00001 00000 36663	MFSK-16/20Bd	(AB)
XPA2	25-11	0900	8154	Tue	08221 00230 15533 ... 85970 35002 70355	MFSK-16/20Bd	(PY)
XPA2	25-11	0910	9341	Tue	No transmission	MFSK-16/20Bd	(PY)
XPA2	25-11	0920	10429	Tue	08221 00230 15533 ... 85970 35002 70355	MFSK-16/20Bd	(PY)
XPA2	25-11	0930	10735	Tue	08221 00230 15533 ... 85970 35002 70355	MFSK-16/20Bd	(PY)
XPA2	25-11	0940	11576	Tue	08221 00230 15533 ... 85970 35002 70355	MFSK-16/20Bd	(PY)
XPA2	25-11	0950	12197	Tue	08221 00230 15533 ... 85970 35002 70355	MFSK-16/20Bd	(PY)
XPA2	25-11	1100	10653	Tue	06772 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	25-11	1120	9353	Tue	06772 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	25-11	1140	8153	Tue	06772 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	25-11	1400	8154	Tue	01373 00242 89588 ... 35972 59345 76655	MFSK-16/20Bd	(PY)
XPA2	25-11	1420	9341	Tue	01373 00242 89588 ... 35972 59345 76655	MFSK-16/20Bd	(PY)
XPA2	25-11	1420	10429	Tue	01373 00242 89588 ... 35972 59345 76655	MFSK-16/20Bd	(PY)
XPA2	25-11	1430	10735	Tue	01373 00242 89588 ... 35972 59345 76655	MFSK-16/20Bd	(PY)
XPA2	25-11	1440	11576	Tue	01373 00242 89588 ... 35972 59345 76655	MFSK-16/20Bd	(PY)
XPA2	25-11	1450	12197	Tue	01373 00242 89588 ... 35972 59345 76655	MFSK-16/20Bd	(PY)
XPA2	25-11	1700	11158	Tue	05692 00001 00000 35266	MFSK-16/20Bd	(AB)
XPA2	25-11	1720	10294	Tue	05692 00001 00000 35266	MFSK-16/20Bd	(AB)
XPA2	25-11	1740	9193	Tue	05692 00001 00000 35266	MFSK-16/20Bd	(AB)
XPA2	26-11	0800	11529	Wed	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)
XPA2	26-11	0820	13429	Wed	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)
XPA2	26-11	0840	13929	Wed	08630 00264 82868 ... 92989 33002 25014	MFSK-16/20Bd	(AB)
XPA2	26-11	0910	19354	Wed	00925 00081 53794 ... 66381 82115 51207	MFSK-16/20Bd	(AB)
XPA2	26-11	0930	18551	Wed	00925 00081 53794 ... 66381 82115 51207	MFSK-16/20Bd	(AB)
XPA2	26-11	0950	17452	Wed	00925 00081 53794 ... 66381 82115 51207	MFSK-16/20Bd	(AB)
XPA2	26-11	1100	13393	Wed	07361 00001 00000 33265	MFSK-16/20Bd	(AB)
XPA2	26-11	1120	12193	Wed	07361 00001 00000 33265	MFSK-16/20Bd	(AB)
XPA2	26-11	1140	11093	Wed	07361 00001 00000 33265	MFSK-16/20Bd	(AB)
XPA2	26-11	1200	13968	Wed	01085 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	26-11	1220	15968	Wed	01085 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	26-11	1240	17468	Wed	01085 00001 00000 33661	MFSK-16/20Bd	(AB)

XPA2	27-11	0900	19456	Thu	00886 00602 74064 ... 05962 90501 31037	MFSK-16/20Bd	(AB)
XPA2	27-11	0920	18371	Thu	00886 00602 74064 ... 05962 90501 31037	MFSK-16/20Bd	(AB)
XPA2	27-11	0940	17421	Thu	00886 00602 74064 ... 05962 90501 31037	MFSK-16/20Bd	(AB)
XPA2	27-11	1100	13393	Thu	06581 00001 00000 34266	MFSK-16/20Bd	(AB)
XPA2	27-11	1120	12193	Thu	06581 00001 00000 34266	MFSK-16/20Bd	(AB)
XPA2	27-11	1140	11093	Thu	06581 00001 00000 34266	MFSK-16/20Bd	(AB)
XPA2	27-11	1700	11158	Thu	07067 00001 00000 34665	MFSK-16/20Bd	(AB)
XPA2	27-11	1720	10294	Thu	07067 00001 00000 34665	MFSK-16/20Bd	(AB)
XPA2	27-11	1740	9193	Thu	07067 00001 00000 34665	MFSK-16/20Bd	(AB)
XPA2	28-11	1100	10653	Fri	08204 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	28-11	1120	9353	Fri	08204 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	28-11	1140	8153	Fri	08204 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	28-11	1200	13968	Fri	05144 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	28-11	1220	15968	Fri	05144 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	28-11	1240	17468	Fri	05144 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	29-11	0900	19456	Sat	00886 00602 74064 ... 05962 90501 31037	MFSK-16/20Bd	(AB)
XPA2	29-11	0920	18371	Sat	00886 00602 74064 ... 05962 90501 31037	MFSK-16/20Bd	(AB)
XPA2	29-11	0940	17421	Sat	00886 00602 74064 ... 05962 90501 31037	MFSK-16/20Bd	(AB)
XPA2	29-11	1600	8126	Sat	06911 00001 00000 36257	MFSK-16/20Bd	(AB)
XPA2	29-11	1620	6826	Sat	06911 00001 00000 36257	MFSK-16/20Bd	(AB)
XPA2	29-11	1640	5326	Sat	06911 00001 00000 36257	MFSK-16/20Bd	(AB)
XPB1	2-11	0600	15926	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	0610	16148	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	0620	18321	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	0630	19417	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	0640	20167	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	0650	20893	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	0800	16294	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	0810	18276	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	0820	19426	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	0830	20297	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	0840	20893	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	0850	22874	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1200	17424	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1210	18450	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1220	19085	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1230	20153	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1240	20897	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1250	22873	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1400	20987	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1410	19334	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1420	18482	Sun	Russian intel.	MFSK-16	(AB/PY)

XPB1	2-11	1430	15925	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1440	14434	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1450	13984	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1600	20879	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1610	20156	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1620	18571	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1630	16286	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1640	15836	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1650	14976	Sun	Russian intel.	MFSK-16	(AB/PY)
XPB1	2-11	1800	17457	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	2-11	1810	16256	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	2-11	1820	15863	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	2-11	1830	14784	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	2-11	1840	13396	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	2-11	1850	12162	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	2-11	2000	14536	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	2-11	2010	13439	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	2-11	2020	12162	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	2-11	2030	11536	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	2-11	2040	11426	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	2-11	2050	10798	Sun	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	0400	13485	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0410	14515	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0420	15963	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0430	17426	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0440	18235	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0450	18748	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0600	15926	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0600	19339	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	0610	16148	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0610	18239	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	0620	18321	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0620	17439	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	0630	19417	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0630	16339	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	0640	20167	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0640	15839	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	0650	20893	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0650	14439	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	0800	16294	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0810	18276	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0820	19426	Mon	Russian intel.	MFSK-16	(AB/PY)

XPB1	3-11	0830	20297	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0840	20893	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	0850	22874	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	1200	17424	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	1210	18450	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	1220	19085	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	1230	20153	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	1240	20897	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	1250	22873	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	3-11	1400	20987	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1410	19334	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1420	18482	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1430	15925	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1440	14434	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1450	13984	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1600	20879	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1610	20156	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1620	18571	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1630	16286	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1640	15836	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1650	14976	Mon	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	3-11	1800	17457	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	1800	17457	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	1810	16256	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	1810	16256	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	1820	15863	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	1820	15863	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	1830	14784	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	1830	14784	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	1840	13396	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	1840	13396	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	1850	12162	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	1850	12162	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	2000	14536	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	2010	13439	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	2020	12162	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	2030	11536	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	2040	11426	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	3-11	2050	10798	Mon	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	4-11	0600	15926	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0600	19339	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0610	16148	Tue	Russian intel.	MFSK-16	(AB/PY)

XPB1	4-11	0610	18239	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0620	17439	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0620	18321	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0630	16339	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0630	19417	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0640	15839	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0640	20167	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0650	14439	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0650	20893	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0800	16294	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0810	18276	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0820	19426	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0830	20297	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0840	20893	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	0850	22874	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1200	17424	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1210	18450	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1220	19085	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1230	20153	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1240	20897	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1250	22873	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1300	20021	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1310	19521	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1320	18421	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1330	17421	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1340	16321	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1350	15921	Tue	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	4-11	1400	20987	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1410	19334	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1420	18482	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1430	15925	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1440	14434	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1450	13984	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1600	20879	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1610	20156	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1620	18571	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1630	16286	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1640	15836	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	1650	14976	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	4-11	2000	14536	Tue	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	4-11	2010	13439	Tue	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	4-11	2020	12162	Tue	Russian intel.	MFSK-16	(AB-S/PY)

XPB1	4-11	2030	11536	Tue	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	4-11	2040	11426	Tue	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	4-11	2050	10798	Tue	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	5-11	0600	15926	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	0610	16148	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	0620	18321	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	0630	19417	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	0640	20167	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	0650	20893	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	0800	16294	Wed	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	5-11	0810	18276	Wed	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	5-11	0820	19426	Wed	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	5-11	0830	20297	Wed	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	5-11	0840	20893	Wed	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	5-11	0850	22874	Wed	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	5-11	1200	17424	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1210	18450	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1220	19085	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1230	20153	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1240	20897	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1250	22873	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1400	20987	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1410	19334	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1420	18482	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1430	15925	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1440	14434	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1450	13984	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1600	20879	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1610	20156	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1620	18571	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1630	16286	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1640	15836	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1650	14976	Wed	Russian intel.	MFSK-16	(AB/PY)
XPB1	5-11	1800	17457	Wed	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	5-11	1810	16256	Wed	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	5-11	1820	15863	Wed	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	5-11	1830	14784	Wed	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	5-11	1840	13396	Wed	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	5-11	1850	12162	Wed	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	5-11	2000	14536	Wed	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	5-11	2010	13439	Wed	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	5-11	2020	12162	Wed	Russian intel.	MFSK-16	(AB-S/PY)

XPB1	5-11	2030	11536	Wed	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	5-11	2040	11426	Wed	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	5-11	2050	10798	Wed	Russian intel.	MFSK-16	(AB-S/PY)
XPB1	6-11	0700	17459	Thu	Russian intel.	MFSK-16	(AB/PY)
XPB1	6-11	0710	18246	Thu	Russian intel.	MFSK-16	(AB/PY)
XPB1	6-11	0720	19324	Thu	Russian intel.	MFSK-16	(AB/PY)
XPB1	6-11	0730	20346	Thu	Russian intel.	MFSK-16	(AB/PY)
XPB1	6-11	0740	20978	Thu	Russian intel.	MFSK-16	(AB/PY)
XPB1	6-11	0750	22908	Thu	Russian intel.	MFSK-16	(AB/PY)
XPB1	6-11	1100	16158	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1110	18182	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1120	19334	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1130	20147	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1140	20978	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1150	22961	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1300	22908	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1310	20906	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1320	19417	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1330	18320	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1340	16158	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1350	15936	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1500	20073	Thu	Russian intel.	MFSK-16	(AB/PY)
XPB1	6-11	1500	20073	Thu	Russian intel.	MFSK-16	(HFD)
XPB1	6-11	1510	19533	Thu	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	6-11	1520	18046	Thu	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	6-11	1530	17447	Thu	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	6-11	1540	14751	Thu	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	6-11	1550	13906	Thu	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	0700	17459	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	0710	18246	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	0720	19324	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	0730	20346	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	0740	20978	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	0750	22908	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1100	16158	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1110	18182	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1120	19334	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1130	20147	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1140	20978	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1150	22961	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1300	20021	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1310	19521	Fri	Russian intel.	MFSK-16	(AB/PY)

XPB1	7-11	1320	18421	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1330	17421	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1340	16321	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1350	15921	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1500	20073	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1510	19533	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1520	18046	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1530	17447	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1540	14751	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1550	13906	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	7-11	1700	19324	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	1710	18226	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	1720	17467	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	1730	15874	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	1740	14532	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	1750	13481	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	2100	13372	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	2110	12213	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	2120	11432	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	2130	10824	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	2140	10326	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	7-11	2150	9045	Fri	Russian intel.	MFSK-16	(AB/PY/HFD)
XPB1	10-11	0600	19339	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	10-11	0610	18239	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	10-11	0620	17439	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	10-11	0630	16339	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	10-11	0640	15839	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	10-11	0650	14439	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	0600	19339	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	0610	18239	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	0620	17439	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	0630	16339	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	0640	15839	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	0650	14439	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	1300	20021	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	1310	19521	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	1320	18421	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	1330	17421	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	1340	16321	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	11-11	1350	15921	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	14-11	1300	20021	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	14-11	1310	19521	Fri	Russian intel.	MFSK-16	(AB/PY)

XPB1	14-11	1320	18421	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	14-11	1330	17421	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	14-11	1340	16321	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	14-11	1350	15921	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	17-11	0600	19339	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	17-11	0610	18239	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	17-11	0620	17439	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	17-11	0630	16339	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	17-11	0640	15839	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	17-11	0650	14439	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	0600	19339	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	0610	18239	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	0620	17439	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	0630	16339	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	0640	15839	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	0650	14439	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	1300	20021	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	1310	19521	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	1320	18421	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	1330	17421	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	1340	16321	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	18-11	1350	15921	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	21-11	1300	20021	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	21-11	1310	19521	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	21-11	1320	18421	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	21-11	1330	17421	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	21-11	1340	16321	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	21-11	1350	15921	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	24-11	0600	19339	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	24-11	0610	18239	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	24-11	0620	17439	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	24-11	0630	16339	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	24-11	0640	15839	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	24-11	0650	14439	Mon	Russian intel.	MFSK-16	(AB/PY)
XPB1	25-11	0600	19339	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	25-11	0610	18239	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	25-11	0620	17439	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	25-11	0630	16339	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	25-11	0640	15839	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	25-11	0650	14439	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	25-11	1300	20021	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	25-11	1310	19521	Tue	Russian intel.	MFSK-16	(AB/PY)

XPB1	25-11	1320	18421	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	25-11	1330	17421	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	25-11	1340	16321	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	25-11	1350	15921	Tue	Russian intel.	MFSK-16	(AB/PY)
XPB1	28-11	1300	20021	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	28-11	1310	19521	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	28-11	1320	18421	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	28-11	1330	17421	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	28-11	1340	16321	Fri	Russian intel.	MFSK-16	(AB/PY)
XPB1	28-11	1350	15921	Fri	Russian intel.	MFSK-16	(AB/PY)

CONTRIBUTORS

AB	Ary Boender, Netherlands
AB-ARS	Ary Boender via remote rx Saudi Arabia
AB-CYP	Ary Boender via remote rx Cyprus
AB-GRC	Ary Boender via remote rx Greece
AB-HNG	Ary Boender via remote rx Hungary
AB-IRL	Ary Boender via remote rx in Ireland
AB-KWT	Ary Boender via remote rx Kuwait
AB-POL	Ary Boender via remote rx Poland
AB-RUS	Ary Boender via remote rx Russia
AB-S	Ary Boender via remote rx Sweden
Anon	Anonymous
Dan	Daniel LU5EMM, Argentina
EW	Eddy Waters, Australia
HFD	Hans-Friedrich Dumrese, Germany
JPL	JPL, NB, Canada (and various remote rx)
Moon	Moonlight (Dave AU)
PY	Pierre Ynard, France and via remote rx
Ringo	Ringo S.
RO	Rando One, Sweden
Rycat	Rycat
Subilo	Subilo
T101	RadiotekhnikaT101 via Priyom
TJ	Trond Jacobsen, Norway
TM	Time Machine

LIST OF ACTIVE STATIONS

Prefixes

E	English language	Q	4+4 QPSK mode
F	FSK (Frequency Shift Keying) modes	S	Slavic languages
G	German language	SK	Various modes used by Cuba, incl. (B)PSK, WinDRM
HM	Hybrid modes	UM(C)	Unid Morse station (Chinese)
M(C)	Morse code (Chinese)	V	Voice broadcasts in other languages
P	PSK modes. QPSK (Quadrature Phase Shift Keying) and BPSK (Binary Phase-Shift keying) modes	VC	Voice Chinese
		X	MFSK modes

Notes :

There is no solid proof that the mentioned operators are correct.

Russian G06, V06 and other variants are not in the list but are occasionally used for exercises

Code	Description	Country	Counterpart	Operator
E06	3-fig id, OM/EE 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06a	3-fig id, 2 group commencing with 11111	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06b	3-fig id with 5FG group in call, 2 msgs	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E07	3-fig id, OM/EE 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
E07a	Null msg format. Nnn nnn nnn 000 repeated 20 mins later	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
E11	nnn Oblique 00 Out	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E11a	E11 with message	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E25	Arabic music, 3FGs call, 4FGs, 9450 kHz	EGY	E25, E25a, E25b	GID
E25a	E25 but 3FG 3FG 2FG 2FG 2FG call	EGY	E25, E25a, E25b	GID
E25b	Arab message; callup in English	EGY	E25, E25a, E25b	GID
F01	FSK/ITA2 200Bd/500Hz	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F02	MFSK-4 150Bd/4000Hz (12kHz BW)	RUS		Unid Russian net.
F03i	FSK-2 100Bd/800Hz/cf +1200Hz/488-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03j	FSK-4 100Bd/400Hz/cf +1200Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03l	FSK-2 100Bd/200Hz/cf +700Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F06	FSK 200Bd/1000Hz ACF=288 sending compressed digits	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F06a	FSK 200Bd/1000Hz ACF=288 sending uncompressed ASCII files	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F07	5x16-tone MFSK, 10Bd, 20Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
HM01	Consists of alternating WinDRM data & V02a repeating sequences.	CUB		DGI
M01	2 tone hand-keyed, ends '000'	RUS		Russian Navy
M01a	End of the month transmission	RUS		Russian Navy
M12	5FG, 3 or 4FG DK. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
M12a	3FG DK. 2 Messages. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
M14	Ends 00000 or 5 long dashes	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14a	Dual msg variant	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14b	Rare, added 2nd msg hand keyed	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14c	Rare, dual msg, consecutive id's	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14d	3FG id with 5FG group in call	RUS	E06, S06, M14, F01, F06, F06a	
M21	14 fig msgs. Markers and tracking data	RUS	M21, M41	Russian Air Defense
M22	4XZ	ISR		Israeli Navy
M23	Letters and/or figures strings in various formats	F		
M41	M21 variant using callsigns and WZD and ABV	RUS	M21, M41	Russian Air Defense
M42	Various modes	RUS		Russian Gov/Intel.
M42b	FSK 50/500 (=50= separator)	RUS		Russian Gov/Intel.
M51a	FAV22 transmissions	F		French army
M51b	Non-stop 5-character groups	F		French army
M76	ABCD de EFGH QTC xx xx = 5FG 3607X RRRRR 201XX NNN			
M89	Markers like V YHDX YHDX YHDX DE SAQC SAQC and 4FG messages. Cut numbers	CHN		Chinese military
M89v	M89 voice transmissions	CHN		Chinese military
M95	Markers and 4FG messages. Cut numbers. Morse counterpart of V26 and Q26	CHN	M95, Q26, V26	Chinese military

MC03	Tracking data. Various formats	CHN	VC01	Chinese Air Defense
MVC03	Morse counterpart of VC03	CHN	VC03	Chinese Air Defense
MX	Single letter beacons/markers	RUS		Russian military
P03e	QPSK 100Bd/488-bit period	POL	E11, E11a, S11a, F03, P03	
P03f	QPSK 200Bd/496-bit period	POL	E11, E11a, S11a, F03, P03	
P03g	BPSK 50Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P03h	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03i	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03j	QPSK 100Bd/504-bit period	POL	E11, E11a, S11a, F03, P03	
P03k	BPSK 100Bd/480-bit period	POL	E11, E11a, S11a, F03, P03	
P03l	QPSK 100Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P07	Russian intel. 8-tone OFDM, QSPK, 62.5Bd, 125Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
Q26	Digital counterpart of V26 and M95. Mode: 4+4 QPSK 75/3000 LSB and 4+4 QPSK 75/1000 LSB	CHN	M95, Q26, V26	Chinese military
S06	3-fig id, 00000 OM/RR	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06b	3-fig id, two group (commencing with 11111, stutter)	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06c	Repeating single group	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06e	3-fig id, two messages	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06f	3 group msg, ends 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06s	YL + slow zero's ending	UKR	E06, S06, M14, F01, F06, F06a	SZRU
S11a	nnn Cherta 00 or group count + message. Konets	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
S28	Buzzer	RUS		Russian military
S30	Pip	RUS		Russian military
S32	Squeaky Wheel	RUS		Russian military
UM03	X2M (probably Chinese). Mode: CW			
UM04	PROMRCh. Daily transmissions. Format: VVVVVV PROMRCh = 27 09 = 1000 0600 0640 0780 1160 ... ABV repeat message = AR. Origin: Bulgaria	BUL		Bulgarian military
UM05	French morse training station	F		
UM06	Various formats morse strings	F		
UM10	10-minutes net. Callsigns sent for 10 minutes 2x per hour on 2 parallel frequencies. Seldom messages are sent.			
V07	Spanish Man 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
V07F	French version of E07	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
V13	New Star Broadcasting	TWN	V13, V13a, V13b	Military Intelligence
V13a	New Star Broadcasting (AM, 5-7 msgs to 5-7 units)	TWN	V13, V13a, V13b	Military Intelligence
V13b	New Star Broadcasting (AM/USB hybrid, intro 2x, 4 msgs to 4 units)	TWN	V13, V13a, V13b	Military Intelligence
V26	Voice counterpart of M95 and Q26	CHN	M95, Q26, V26	Chinese military
VC01	Chinese Robot (tracking data)	CHN	MC03	Chinese Air Defense
VC02	Chinese voice morse stations	CHN		Chinese Air Defense
VC03	3FG callup and 4FG messages			
VC05	Chinese time stamp station. Operator calling a 4-figure callsign for four minutes. At the end the actual Beijing time is mentioned.	CHN		
VR01	Russian station passing coded messages. Active sinds at least March 2014. Seldom heard	RUS		
X06	MFA Moscow. Selcal system for diplomatic missions	RUS		Various
XPA1	MFSK-20/10Bd transmissions	RUS		Russian intelligence
XPA2	MFSK-16/20Bd transmissions	RUS		Russian intelligence
XPB1	MFSK-16 transmissions	RUS		Russian intel
XSL	QPSK 1500Bd. Slot Machine (Japanese Navy Telemetry)	J		Japanese navy
X--	21-tone MFSK with 125 Hz tone spacing + 13-tone MFSK with 250 Hz spacing	RUA	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence

APPENDIX

Morse characters

A	. -	1	. - - - -	Full stop (period)	[.]	. - . - . -
B	- . . .	2	. . - - -	Comma	[,]	- . . . - -
C	- . . .	3	. . . - -	Colon	[:]	- - - . . .
D	- . .	4	 -	Question mark	[?]	. . - - . .
E	.	5		Exclamation mark	[!]	- . . . - -
F	. . - .	6	-	Apostrophe	[']	. - - - - .
G	- - .	7	- - . . .	Dash or Hyphen	[-]	- -
H		8	- - - . .	Slash	[/]	- . . . -
I	. .	9	- - - - .	Left-hand bracket	[(]	- . - - .
J	. - - -	0	- - - - -	Right-hand bracket	[)]	- . - - . -
K	- . -			Quotation marks	[" "]	. - . . .
L	. - . .			Equals sign	[BT =]	- . . . -
M	- -	Accented letters		Understood		. . . - .
N	- .			Plus sign	[+]	. - . - .
O	- - -			Invitation to transmit		- . -
P	. - . .			Wait	[AS]	. - . . .
Q	- - . -			End of Transmission	[SK, VA]	. . . - . -
R	. - .	Ü	- - - .	End of message	[AR]	. - . - .
S	. . .		. . - -	Starting signal		- . . . -
T	-			Multiplication sign	[×]	- . . -
U	. . -			At sign	[@]	. - - . - .
V	. . . -			Break	[BK]	- . . . - . -
W	. - -			Ampersand	[&]	. - . . .
X	- . . -					
Y	- . - -					
Z	- - . .					

For Cyrillic morse etc., see also

<http://udxf.nl/Morse-document.pdf>

<http://udxf.nl/Russian.pdf>

Chinese cut numbers
(M89, M95, MC03, etc)

A	U	3	4	5	6	7	D	N	T
1	2	3	4	5	6	7	8	9	0

M08a cut numbers

A	N	D	U	W	R	I	G	M	T
1	2	3	4	5	6	7	8	9	0

Q26 conversion

F	J	B	P	G	U	Y	M	C	W
0	1	2	3	4	5	6	7	8	9

3rd shift Cyrillic RTTY as used by M42b

Q	W	E	R	T	Y	U	I	O	P	(	K	V	Z
1	2	3	4	5	6	7	8	9	0	K	=	-	+

Word	E11a	S11a	M03
Attention	Attention	Vnimanye	
Slash /	Oblique	Cirta	- . . - .
Out	Out	Konets	

Figure	English	French	German	Mandarin	Spanish	Russian	Arabic
0	Zero	Zero	Null	Ling	Cero	Null	Sifr
1	One	Un	Eins	Yi	Uno	Odín	Wahid
2	Two	Deux	Zwei	Er	Dos	Dva	Itzien
3	Three	Trois	Drei	San	Tres	Tri	Talata
4	Four	Quatre	Vier	Si	Cuatro	Chety're	Arba`a
5	Five	Cinq	Fünf	Wu	Cinco	Pyat'	Xamsa
6	Six	Six	Sechs	Liu	Seis	Shest'	Sitta
7	Seven	Sept	Sieben	Qi	Siete	Sem'	Sab`a
8	Eight	Huit	Acht	Ba	Ocho	Vósem'	Tamanya
9	Nine	Neuf	Neun	Jiu	Nueve	Dévyat'	Tiss`a

Figure	Morse	Vietnamese	E17z	S11a	G06	E11
0	— — — — —	Số không	Zero	nul	Null	Zero
1	. — — — —	Một	Van	adinka	Eins	One
2	. . — — —	Hai	To	dvoyka	Twso	Two
3	. . . — —	Ba	Fwee	troyka	Drei	Three
4	 —	Bô'n	Fo	chetvyorka	Vier	Four
5		Năm	Fav	petyorka	Funuf	Fiver
6	—	Sáu	Six	shest	Sechs	Six
7	— — . . .	Ba y	Seven	syem	Sieben	Seven
8	— — — . .	Tám	Eight	vosyem	Acht	Eight
9	— — — — .	Chín	Nine	dyevyet	Neugen	Niner
=	— . . . —					
/	—					

Note: E17z, M03 and M08a are defunct.

COLOPHON

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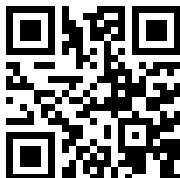
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976 27364 92886 89428 61288 14982 36498 32764 81276 81
986 48932 70987 32123 49817 26346 81287 65491 87364 81
721 75654 55656 12737 72727 72727 91918 63473 67867 70
723 87629 37677 32612 53498 71296 28756 18276 98716 87
7269 76329 74698 76857 98678 27681 56781 57681 73648 1
7591 87364 87265 96718 27638 12673 84769 28743 98127 5
758 63298 75698 27465 87326 49876 28376 81273 98615 86
67 87432 74328 78674 29867 32867 67867 86786 43276 486
67 68768 68763 34234 34238 68768 62342 48273 48768 230
936 98432 32432 86743 43286 43286 43286 43286 43286 432
743 86743 86743 39867 32867 86743 43286 43286 43243 86
751 86743 86743 86743 86743 86743 86743 86743 86743 86
983 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
867 87287 58765 76587 58765 76587 58765 76587 58756 765
86743 76587 76587 76587 76587 76587 76587 76587 76587 76587

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