

670	27364	92836	09428	61208	74982	36498	32764	81276	01
0986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	70
0723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
591	87364	87265	96710	27630	12673	84769	28743	98127	50
58	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43206	492
657	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
076	87698	69876	87698	69876	87612	12341	34867	86798	632
807	43298	65656	56756	56123	32143	14321	32143	14321	321
071	02787	58765	76587	58765	76587	58765	76587	58756	765
070	75250	26587	84265	36543	54365	36543	54365	36543	543

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #232, January 2017

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.

A nice one to kick off: the Numbers & Oddities website is listed as #46 on the list of 99 of the BEST Intelligence Resources <http://www.intelligence101.com/99-of-the-best-intelligence-resources-some-youve-probably-never-heard-of/>

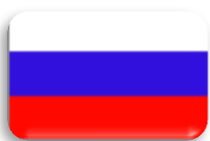


You Asked For It...So Here It Is! 99 of the BEST Intelligence Resources (Some You've Probably Never Heard Of)...

SIGINT & Radio Intelligence

46. [Numbers & Oddities](#) – Whether you're a short-wave radio hobbyist or a hard-core SIGINTer, Numbers & Oddities provides an online database of Number Stations ([link](#)) and Transmissions ([link](#)) owned by governments, the military and / or Intelligence agencies for you to enjoy.
-

VOICE STATIONS



E06

4836 kHz, 05-01, 2028 UTC. Early start

321 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000

4754 kHz, 06-01 *) / 20-01, 2130 UTC

472 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000

*) Ends with Windows XP shutdown sound and Operator chat after the transmission

4836 kHz, 19-01, 2030 UTC

321 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000

13945/16350 kHz, 19-01/20-01, 0600/0700 UTC

139 684 102
51571 86298 86641 16497 44233 28294 11828 73592 67667 13152
85404 42109 84416 22708 37130 94973 92490 44637 68539 30661
13247 05628 87559 36241 94219 79259 16657 71870 50321 85779
60457 52643 91867 25955 43775 82500 12850 16205 55998 19869
37902 17177 62744 79734 51398 72977 70752 01822 57110 03231
56929 39576 41880 15157 97488 49640 41719 27860 58137 86496
33800 26006 31224 31978 02758 85085 30801 14332 54744 35448
81535 96518 77678 57286 62404 38436 71122 23777 91111 62758
94223 34539 60165 79074 05163 06623 60555 46019 90541 15202
53963 76074 08151 01158 79442 12734 91553 87751 05519 34723
89923 73559
684 102 00000

4760 kHz, 20-01, 2130 UTC

472 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000



E07

8123/9323/10423 kHz, 07-01/08-01, 0700/0720/0740 UTC

134 134 134 1 205 43 205 43
62740 90357 33069 75185 58972 82161 34945 69953 66459 76226
40719 13230 11056 48166 04323 86792 76555 91854 84024 73740
81935 83043 57362 95204 75195 34978 07636 70870 49098 60535
66894 46327 08832 99692 71474 26239 29901 83074 27755 79960
73940 13792 49341
000 000

6776/5767/5076 kHz, 09-01/11-01, 2000/2020/2040 UTC

770 770 770 1 680 47 680 47
37120 42309 98006 78374 99746 88838 66813 81957 41951 78437
84833 33644 24329 28483 11660 79623 58025 47737 07395 65952
51227 01458 79384 69435 96460 28351 35756 26323 17472 01534
87347 98193 39282 68969 16466 29130 70805 59538 86813 71668
79800 30787 74557 66960 95797 36913 41736
000 000

13523/12123/10623 kHz, 10-01/13-01, 1100/1120/1140 UTC

516 516 516 1 2330 97 2330 97
07788 52143 86472 49836 83024 60007 80381 00300 50533 56331
27368 71300 12107 97922 28057 20846 81784 68398 37845 84599
98108 25479 15184 98450 61828 60521 12929 21076 08383 40479
88397 23736 10641 66110 45651 11721 28690 47183 86099 99814
62607 84634 04799 26516 03744 66492 47522 08271 07323 51387
05184 85909 90103 35680 26064 25074 10519 04350 18317 41614
11330 15809 24184 19879 25855 88967 07304 57081 50264 46799
75689 34451 29701 26788 16580 37578 51802 78860 27287 11729
82495 41857 48028 64521 68144 65634 86833 00392 93010 51579
92629 85069 75557 72587 46496 51617 37796
000 000

8123/9323/10423 kHz, 21-01/22-01, 0700/0720/0740 UTC

134 134 134 1 534 30 534 30
42942 89212 04191 31485 72532 83775 92936 23798 29969 77160
94137 75671 66419 56048 13447 47846 55268 18443 30065 76977
75489 00396 17966 36348 51959 60741 61467 69156 57157 92053
000 000

6776/5767/5076 kHz, 23-01/25-01, 2000/2020/2040 UTC

770 770 770 1 631 60 631 60
91292 56996 53418 92429 86300 91274 15879 78571 35227 14307
05375 12186 00719 82565 72506 90829 15562 63900 44313 26380
67123 51956 68737 37866 41524 31510 37237 64468 51553 19690
97592 60842 83992 14482 81571 58281 98761 60478 50708 92308
18841 95335 03533 86683 05617 46537 36027 57262 48538 29886
78652 64317 03110 29682 85588 27880 05717 79016 24205 37895
000 000

13523/12123/10623 kHz, 24-01/27-01, 1100/1120/1140 UTC

516 516 516 1 8190 89 8190 89
27978 72720 37473 54563 76176 62175 26593 69757 06362 04387
82877 11449 19879 71929 33265 75323 49560 55114 80634 21311
08964 50175 22922 19418 41002 41750 29885 66517 36625 52991
19288 51464 18454 60730 22775 91541 56937 30193 77243 00063
10189 11028 24072 85192 94451 52505 49110 95116 87278 01191
19427 84633 14319 50220 53802 19366 93847 21055 47639 36195
89511 31759 39918 86669 69215 11490 68754 50073 47153 79881
96989 88675 06829 33951 22428 07528 26121 70168 60706 89310
39324 15446 18153 52924 99771 21748 51169 17279 69881
000 000

8123/9323/10423 kHz, 28-01, 0700/0720/0740 UTC

134 134 134 1 281 46 281 46
42906 17966 52900 32924 28096 29761 16066 56449 71592 73384
93418 87875 06739 65424 38896 55537 66235 22091 86300 06816
92372 67837 63579 11690 73278 17097 17267 94572 02641 69698
98536 28857 65481 66999 57928 74355 47271 77733 25323 52694
34996 03451 35602 12523 89648 79282
000 000

6776/5767/5076 kHz, 30-01, 2000/2020/2040 UTC

770 770 770 1 117 50 117 50
06525 25895 03433 98650 32206 30876 62583 77379 19113 78964
35691 15107 71107 11391 27822 82555 08709 58528 66565 94167
83351 46170 80851 87925 41030 93329 00546 93920 86106 02369
59874 79193 28149 73628 40558 44759 51339 66406 04994 99732
78151 59481 81931 78105 04776 63478 37393 82511 23593 27684
000 000



E07a

5877/5277/4577 kHz, 18-01, 2100/2120/2140 UTC

825 825 825 1 16258 8834 67 8834 67
76867 95065 94445 33937 67645 98677 82514 88340 63226 17058
00556 93031 85265 36731 23112 11653 76373 08066 07567 97122
06718 95464 08632 48299 90717 49090 47974 80672 30828 32188
48338 58508 75284 62189 11118 84806 09129 51036 82055 81700
89944 85956 86684 35271 70751 35162 19495 31440 81179 58293
43773 16745 90986 32877 32186 67762 88689 61924 34509 10491
08063 59417 39205 50916 75644 73239 56392
000 000

5111/5811/6911 kHz, 19-01, 0530/0550/0610 UTC

189 189 189 1 16258 8834 67 8834 67
76867 95065 94445 33937 67645 98677 82514 88340 63226 17058
00556 93031 85265 36731 23112 11653 76373 08066 07567 97122
06718 95464 08632 48299 90717 49090 47974 80672 30828 32188
48338 58508 75284 62189 11118 84806 09129 51036 82055 81700
89944 85956 86684 35271 70751 35162 19495 31440 81179 58293
43773 16745 90986 32877 32186 67762 88689 61924 34509 10491
08063 59417 39205 50916 75644 73239 56392
000 000



E11a

6849 kHz, 01-01/05-01, 0530 UTC

643/39 Attention

48694 87200 45044 89749 16909 07704 75289 37728 20055 63054
46423 72581 23017 28328 19867 57298 66947 75060 20216 93757
90660 60624 42634 06289 74482 85230 79562 76725 05653 42486
28008 78160 11491 33874 07125 93043 97169 27066 61212

Attention, rpt msg, out

10429 kHz, 04-01, 0805 UTC

319/39 Attention

43707 01516 58643 53117 83131 08975 52592 09136 90884 82795
74323 91014 97345 15817 26334 40488 52071 09198 76576 53658
56958 44762 98785 88741 49412 70208 23372 05758 98766 27390
04620 94317 12925 56877 72575 73027 74145 97889 52850

Attention, rpt msg, out

5409 kHz, 05-01, 1530 UTC

268/30 Attention

12321 76922 20573 82014 63726 57709 40794 82352 70645 50801
80025 06058 93811 89650 98186 68425 03391 76302 37070 46330
34012 73182 55516 33357 58761 11116 89902 85029 02569 70248

Attention, rpt msg, out

14666 kHz, 07-01, 1345 UTC

911/35 Attention

63233 13666 84227 67483 88531 60288 53472 90668 49505 10996
77719 90778 60294 01069 38292 40978 50789 06322 57669 58517
60681 71565 85510 26920 04134 69483 63453 78117 54874 00725
81149 13363 97976 51179 12355

Attention, rpt msg, out

7840 kHz, 10-01/12-01, 0645 UTC

512/39 Attention

14240 41987 94713 10385 17045 82275 72513 69052 38457 54011
40189 90338 75312 36356 59583 22099 88123 73732 12118 73850
45065 43562 55391 59342 96465 31357 26132 00626 89659 63368
90467 00759 87944 30953 87231 48933 41293 80838 65348

Attention, rpt msg, out

8800 kHz, 10-01/13-01, 1000 UTC

304/40 Attention

56616 25346 29162 07197 08825 14832 17538 66096 60147 02033
99839 05833 21548 92366 41147 78948 75451 57280 66782 88009
65958 27062 25558 80608 41685 76539 97749 96295 64798 27000
66697 49278 14322 16923 14816 59930 50812 11686 42793 25477

Attention, rpt msg, out

9950 kHz, 11-01/12-01, 0930 UTC

273/32 Attention

77214 41571 74526 31597 14528 08086 30093 88357 58993 48398
11162 06163 88815 99756 86622 96326 31845 74690 60283 28382
14718 93529 14719 08651 65246 13051 25198 22786 63119 94269
44588 97660

Attention, rpt msg, out

8545 kHz, 11-01/14-01, 1730 UTC

406/32 Attention

15830 21602 29953 70006 88789 71083 21379 22540 86458 98163
65250 31382 39942 18672 40064 11807 60842 55018 22019 46211
79137 77555 37279 34846 54258 24306 43017 71011 88964 72072
20803 42493

Attention, rpt msg, out

8680 kHz, 12-01, 1300 UTC

585/39 Attention

06627 33983 78559 73235 34363 26576 41833 05132 58922 29764
14374 21571 27917 77711 98775 79597 10346 97989 65734 30062
43828 30333 47625 72996 18367 45277 97600 35922 13175 23451
62404 42871 63148 67731 61974 35334 87506 15537 93568

Attention, rpt msg, out

7984 kHz, 17-01/18-01, 1205 UTC

465/34 Attention

40259 32718 21349 81656 74677 29437 12141 41669 43091 72294
49453 03745 15355 15418 23058 03499 75993 31220 49823 71683
43259 70679 24138 61172 33463 89915 23673 82884 80311 81335
75871 28026 49052 72286

Attention, rpt msg, out

11100 kHz, 16-01/19-01, 0820 UTC

438/33 Attention

87233 78042 55321 32884 06831 14969 02932 14766 93214 74514
24372 10179 81331 58243 33207 13298 51884 29663 43873 96434
75467 00810 54277 82969 59337 21795 48829 35390 68471 33241
02883 40278 23671

Attention, rpt msg, out

16112 kHz, 19-01, 0745 UTC

332/32 Attention

88361 93359 73744 93164 09057 77409 81181 54738 58928 43846
56496 85703 11792 93073 51035 37505 75600 39451 54233 39259
43333 15389 29325 58934 18178 70971 15955 42689 07480 29716
68694 66822

Attention, rpt msg, out

4505 kHz, 22-01, 1605 UTC

230/37 Attention

78089 43617 10064 80176 79692 62860 47187 40613 44526 66694
22031 20686 25678 23753 77761 11497 99731 46581 27785 42564
28059 34301 63078 71204 04475 58094 78747 05329 53467 66834
86682 06198 84034 05551 75467 99179 14241

Attention, rpt msg, out

9446 kHz, 23-01/25-01, 0900 UTC

535/32 Attention

03778 52287 89459 35420 89391 72430 26220 25724 44533 28689
50251 00569 81041 50918 81743 47142 20742 79917 05211 74636
99761 11168 81606 39955 06031 10761 98429 03806 37968 86223
16398 83399

Attention, rpt msg, out

12153 kHz, 24-01, 1045 UTC

579/33 Attention

55992 40241 34654 97150 65862 33106 64233 10521 34451 70627
15936 10101 04323 38190 33569 54555 06519 93315 01302 69974
90673 62163 04950 26179 89396 11282 30469 55772 33975 43835
61342 39011 89894

Attention, rpt msg, out

18030 kHz, 24-01/25-01, 1305 UTC

131/31 Attention

74540 81002 33664 77475 92350 00053 88285 13872 54414 54031
55047 88214 34486 58538 32142 77517 32667 83160 47422 84141
83255 77388 77054 39834 87781 19997 00920 44953 83494 52376
09772

Attention, rpt msg, out

6304 kHz, 20-01, 2000 UTC

579/33 Attention

55992 40241 34654 97150 65862 33106 64233 10521 34451 70627
15936 10101 04323 38190 33569 54555 06519 93315 01302 69974
90673 62163 04950 26179 89696 11282 30469 55772 33975 43835
61342 39011 89894

Attention, rpt msg, out

11100 kHz, 30-01, 0820 UTC

430/00 (should be the same message as F11 at 0800/0805 UTC)



E17z

11170/9820 kHz, 05-01/12-01, 0800/0810 UTC

674 208 5 17099 94961 35826 65906 77233 208 5 00000

11170/9820 kHz, 19-01/26-01, 0800/0810 UTC

674 283 5 39683 35468 35208 35868 49131 283 5 00000



E25

E25 uses the transmitter sites of Radio Cairo. One of them is Abis. The latest satellite pictures however show no longer the MW antenna's. It looks like they were dismantled. The shortwave antennas are still there. Below the Google Earth pictures.



This picture is from December 2016 without the MW antennas (picture: Google Earth)

6140 kHz, 04-01, 1118 UTC

Enta Omri intro, breaks and beeps.

360 (R)

Message, message, message

0805 6210 1504 0375 6480 3012 6210 5701

Rebeat, rebat, rebat

0805 6210 1504 0375 6480 3012 6210 5701

End of message. End of transmission

Note from qsr711:

I don't know what's going on, but like ID 570, 360 also carries Enta Omri intro music now. Also, ID 360 is supposed to transmit at 0800 UTC. The first group of the transmission seems completely wrong too (wrong serial number and group count). Total madness. Recording: <http://priyom.org/number-stations/english/e25/2017>



The empty MW field and on the left side the SW antennas in December 2016 (picture: Google Earth)



G06

4792 kHz, 13-01, 1927 UTC / 4792 kHz, 27-01, 1929 UTC

436 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000
Windows XP shutdown sound. Operator chat after the transmission

4463 kHz, 19-01, 1300 UTC

329 329 329 00000
Windows XP error sounds.
Space Cadet Pinball game sounds

4513 kHz, 26-01, 1829 UTC

271 149 52
12265 10965 47839 38654 84677 93453 72217 84393 04673 97564
01824 75643 84221 95647 92112 94543 76577 43435 47322 84232
95674 87344 57438 45763 49325 57438 92190 96785 21244 05674
01765 76354 83645 21234 97564 82133 07564 83234 75312 71211
05674 65374 67321 94884 23483 82521 41212 57333 85331 53234
05124 95732
149 52 00000



S06

16243/13469 kHz, 12-01, 0830/0930 UTC

842 139 48
29363 90193 69170 07417 86762 05658 43785 41856 40309 52687
38225 24492 75487 87698 54472 39715 61693 69845 24211 00521
11719 77225 83606 91101 38608 09900 82157 79987 64563 53168
92824 39219 61586 99537 15612 31213 28548 52812 91792 48547
34373 62763 70973 18030 82019 63789 98165 04842
138 48 00000

9463 kHz, 17-01, 1000 UTC

10254//10159 kHz, 17-01, 1230 UTC

9337 kHz, 17-01, 1300 UTC

480 621 43
73995 85328 87650 23576 55716 52066 01630 66200 57401 84853
00773 88198 03406 11905 45671 09335 66502 84676 22763 63948
35769 95824 79412 98651 94441 68080 27822 77305 23843 95883
08867 73626 67677 92924 75241 15470 32175 64478 75710 14096
55206 60429 13963
621 43 00000

16243/13469 kHz, 19-01/20-06, 0830/0930 UTC

842 506 49
97125 70813 65713 29481 04444 33823 48295 57307 04400 68876
55698 73810 78389 66427 32549 18910 84980 89115 16047 93601
79120 36558 03660 17174 91989 13357 76931 64692 13682 11272
56088 20298 45914 41493 05138 18431 16932 77942 92137 66946
75817 97550 34336 90043 08378 28444 42852 70741 41798
506 49 00000

12164 kHz, 24-01, 1030 UTC / 9463 kHz, 24-01, 1000 UTC

9337 kHz, 24-01, 1230 UTC / 8077 kHz, 24-01, 1300 UTC
480 267 41
67421 97700 61483 28452 43208 78646 87173 43262 04309 72604
46472 76509 47464 91755 34140 31170 87099 87476 50135 80378
36926 77384 32258 43795 81190 22191 26184 16869 81013 09636
72604 93390 46472 76509 47464 91755 34140 31170 87099 87476
80378
267 41 00000

16243/13469 kHz, 26-06/27-01, 0830/0930 UTC

842 137 50
00010 38588 93250 44991 68592 99986 93357 14492 78010 42104
06311 27339 63798 84573 15131 97825 68398 69471 54481 95739
98042 89454 70140 37441 46914 52328 60593 87593 74534 11735
49192 13722 47312 18629 60325 60790 80182 73257 98024 37990
39292 82299 50448 34920 91646 50879 68685 09345 12677 64128
137 50 00000

9463 kHz, 31-10, 1000 UTC / 9337 kHz, 31-10, 1230 UTC / 8077 kHz, 31-01, 1300 UTC

480 527 43
99625 71339 69531 12708 92028 19160 26665 57696 44576 21605
38872 29052 63405 35848 23128 89060 02032 01790 18411 66539
89817 46338 63102 37871 29829 19860 90023 39302 58963 10418
46472 76509 47464 91755 34140 31170 87099 87476 74804 95315
02521 55044 77254
527 43 00000

12164 kHz, 31-01, 1033 UTC

Unscheduled transmission i.p. 480 527 527 43 43 996 then off



S06s

Unscheduled transmissions and oddities.

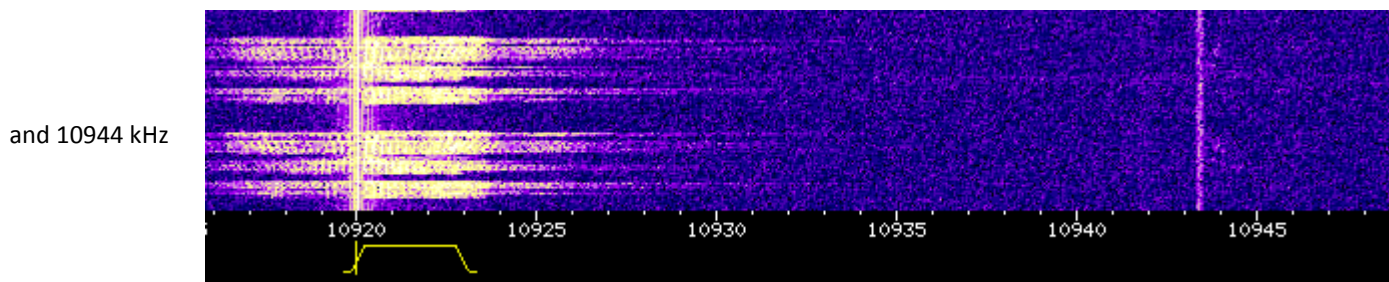
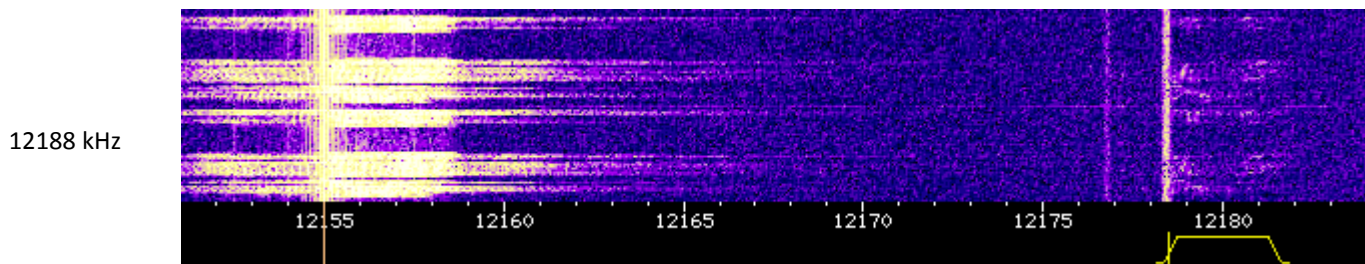
10254 kHz, 10-01, 1230 UTC. Unscheduled transmission i.p.

480 312 45
50135 80378 77662 36926 77384 32258 43795 81190 22191 26184
55053 99625 71339 69531 12708 92028 19160 26665 57696 44576
21605 59812 38872 29052 63405 35848 23128 89060 02032 01790
18411 66539 17503 89817 46338 63102 37871 29829 19860 90023
39302 58963 10418 29009 56318
312 45 00000

12155/10920 kHz, 19-01, 1200/1210 UTC

425 870 6 39382 45739 49645 32975 45356 49396 870 6 00000

I noticed images of S06s on 12188 resp. 10944 kHz, they were not only on the webSDR but also noticed on own radio sets, so they must be from S06s' transmitters.



S11a

5815 kHz, 11-01/13-01, 1955 UTC

373/36 Vnmaniye

68730 17882 78078 80951 03974 39711 73266 63884 92149 09192
04819 79361 86359 61894 99604 93643 15275 66862 75866 54076
22762 75433 58130 87771 60679 03272 02978 89748 22597 76807
44836 44551 37162 03631 85419 70095

Vnmaniye, rpt msg, konets

12530 kHz, 12-01, 1015 UTC

472/36 Vnmaniye

17545 45087 58038 24197 32010 99656 49383 60007 51846 26289
48417 97222 66828 74940 39623 75172 13127 00216 48760 87916
50138 34013 52291 93179 58828 90471 59743 19939 63857 72805
60163 97397 72616 59538 68326 88656

Vnmaniye, rpt msg, konets

9610 kHz, 17-01, 1020 UTC

421/37 Vnmaniye

09789 56187 95167 68582 31185 60118 67254 13059 05563 12973
00445 96823 24435 14803 97762 89436 47668 93402 18806 52265
05202 87573 32764 86463 44239 73478 85656 10531 10392 89349
83715 97476 33130 90632 40482 82147 88175

Vnmaniye, rpt msg, konets

4828 kHz, 20-01, 0455 UTC

320/40 Vnimaniye

50009 88139 84762 43723 03811 56503 43882 89430 27730 77262
57277 28480 27749 95392 16185 93037 61078 40467 06739 80625
90751 98416 81389 81181 86326 09069 44239 85805 61670 61067
73938 19402 94535 86509 30999 45406 36375 43348 02684 57591
Vnimaniye, rpt msg, konets

7504 kHz, 24-01/27-01, 0915 UTC

480/37 Vnimaniye

79875 91452 47396 71325 38362 87226 65554 78190 14243 35928
98501 54572 07698 32231 24932 48574 11136 74051 94854 91833
04328 79538 97940 92762 58530 89097 69184 25171 75744 37268
79701 36397 23641 61175 01951 50025 46615
Vnimaniye, rpt msg, konets

9130 kHz, 26-01, 1102 UTC, unscheduled transmission i.p.

Vnimaniye

56103 15441 86957 74147 41718 89279 07187 91350 21878 84647
45509 09785 08378 22443 43255 18438 99678 83835 37987 41462
Konets

9130 kHz, 26-01, 1132 UTC, unscheduled transmission i.p.

Vnimaniye

64473 68313 55804 58648 79900 90912 12349 98992 23599 05212
19408 40637 27744 02364 43403 95282 79429 76209 69726 53400
Konets

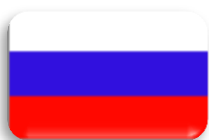


S28 - The Buzzer

Mode: USB
Frequency: 4625/6998 kHz

Date	UTC	Message
2-1	1232	ZhUOZ 15818 KORDOSLOT 99013553. Female voice in the background
2-1	1359	ZhUOZ 80321 GIACINTOVYJ 42815666
4-1	1429	ZhUOZ 24760 KORZhOVNUK 14851546. Female voice in the background
5-1	1245	ZhUOZ 06243 GROShOLIN' 46130694. Female voice in then background. Sboj (error) during the repeat
5-1	1252	ZhUOZ 70247 GRUZOKLYuCh 66053566. Female voice in the background
5-1	1311	ZhUOZ 89127 ALOGICHNYJ 45413922
5-1	1349	ZhUOZ 75457 KURAZh 89879441. Female voice in the background
5-1	1355	ZhUOZ 35101 ZLATOGLAZIK 44437430. Female voice in the background
5-1	1412	ZhUOZ 27878 DVOROBYK 13494148. Female voice in the background
8-1	1222	ZhUOZ 04930 DONORNYJ 32872445. Female voice in the background
8-1	1228	ZhUOZ 55924 BYeGOTAT 27577493
10-1	1822	Buzzer channel marker
13-1	1216	Channel separation failure on relay line. This could only be heard from Naro-Fominsk site. Male voice in the recording saying: Could not hear you at all. Please give me the generator
19-1	0949	ZhUOZ 57107 KYePOChKA 08084714. Female on background reads another signal
19-1	0958	ZhUOZ 57875 KOMPOVIS 45303735 VIDOVIST 42755407. Female voice on background: Operative duty officer...
19-1	1027	ZhUOZ 25712 BLINOShARM 62908777 BYeSSMYSLIYe 02263006
19-1	1137	ZhUOZ 83157 KOLOBOK 36907971
23-1	1059	ZhUOZ 94438 VIZGOHALL 42215625
23-1	1533	ZhUOZ 05971 ZAYeMORIFT 53540437
23-1	1603	ZhUOZ 35914 GRYaZNUHA 02424938 KAZACHOK 84730640

Date	UTC	Message
23-1	1700	ZhUOZ 05651 KONYuNKCIYa 63540055 GRUZINSKIJ 53976660
23-1	1708	ZhUOZ 68420 BYeZDOZhD'Ye 95044797. Female voice on background
25-1	0807	ZhUOZ 95018 ULYeTOKOK 80089378
25-1	0819	ZhUOZ 18323 BORTOSRAM 11150101
25-1	0831	ZhUOZ 60765 AKVILON 66491076. Voices on background
25-1	0851	ZhUOZ 95960 KAPIL'ShchICA 45390562 ARABOTAU 86356499. Female voice on background
25-1	0900	ZhUOZ 39108 ILIMOLIFT 09396271
25-1	0922	ZhUOZ ZAVOGUZh 5342
25-1	0936	ZhUOZ 92519 VRACHoShARZh 12300601
25-1	0954	ZhUOZ 55089 GITOSHVED 38883491. Female voice on background
25-1	1021	ZhUOZ 53659 BORTOSRAM 13162501
25-1	1130	ZhUOZ 51290 APISOHLOP 94333186 KOVYChKA 85616082. Female voice on background
25-1	1146	ZhUOZ 19289 DOMOTKANYJ 31152875 BOLTOLoGIYa 09051980 KUMOChYeH 03012002. Female voice on background saying: Operative duty officer... and reading another message
25-1	1149	ZhUOZ 49912 ZhOHOSAK 77012547
25-1	1216	ZhUOZ 76575 KLADOSHik 87606507. Phone rings on background
29-1	1231	ZhUOZ 65180 VAZYeLINOvYJ 56617621 KZOTOFINN 95743016 DAMPOLYaD 61298274. Sboj (error) in the beginning
29-1	1300	ZhUOZ 72823 DOLIVAN'Ye 49174192. Female voice on background
29-1	1327	ZhUOZ 09726 BIMSOVAL 48273820. Female voice on background
29-1	1408	ZhUOZ 89950 DZhUTOGOT 35179941
29-1	1432	ZhUOZ 88572 VSYeZNAJKA 20868577
30-1	0927	ZhUOZ 00329 ZhAL'CYe 40218103
30-1	0941	ZhUOZ 93636 GAVROBORN 48217284 IRONANG 64251645
30-1	1001	ZhUOZ 48040 LASTOGLYeT 88901685
30-1	1030	ZhUOZ 43933 YuGNOBOFANT 44394593
30-1	1104	ZhUOZ 80906 BLYeJZYeR 67668265
30-1	1121	ZhUOZ 33934 BIL'YaRD 91955086



S30 - The Pip

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

Freq	Date	UTC	Message
5448	2-1	1355	8S1Shch 68134 OBMAZOChNYJ 37856096. Time mark after the transmission
3756	4-1	1422	8S1Shch 64321 LYeSHAK 95431772. Time mark after the transmission
5448	5-1	1350	8S1Shch 05463 GONChAR 78577056. Time mark after the transmission
3756	5-1	1355	8S1Shch 12879 MAKIYaZh 89718285. Time mark after the transmission
3756	5-1	1855	Pip channel marker
4625	5-1	1904	Buzzer channel marker
4625	6-1	0618	Buzzer channel marker
3756	23-1	1434	TZLM FY5E F61N 37CN MUDR 7VNSHch Zh7NZh YMA5 VTH3 AGDT
3756	23-1	1535	8S1Shch 78380 LYeShchOTORF 94519379. Time mark after the message
3756	23-1	1603	8S1Shch 15114 NAVALIVAN'Ye 52366747. Time mark after the message
3756	23-1	1652	8S1Shch 33011 DVOJNYaShKA 64244428. Time mark after the message
3756	23-1	1710	8S1Shch 25158 MAJNOSYeUL 83051401. Time mark after the message. Error in the repeat
3756	23-1	1756	'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V
5448	25-1	1223	8S1Shch 90437 DINA 03487826. Time mark after the message
3756	25-1	1541	5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN
3756	25-1	1541	MUDR 7VNSHch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch
3756	29-1	1432	8S1Shch 75553 VYKUP 97871366. Time mark after the message

Freq	Date	UTC	Message
3756	29-1	1457	79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch
3756	29-1	1708	8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E



S32 - Squeaky Wheel

Mode: USB

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

Freq	Date	UTC	Message
5473	2-1	1359	AL'FA-45 00710 KLIKOSVISHch 50309751
3828	4-1	1426	AL'FA-45 75897 ADORANT 60359496. S30 in the background
3828	5-1	1858	Squeaky Wheel channel marker
3828	23-1	1656	AL'FA-45 66113 OTSTAVKA 51455451. S30 in the background
3828	24-1	1536	ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYezINA-38 BURKA-37
5473	25-1	1521	AL'FA-45 71436 DRAPOVATT 24006663. S30 in the background



V15

Via Radio Pyongyang

Moomin reports that V15 is now also on FM 92.5 92.8 93.6 103.7 MHz. He copied V15 at 1615 UTC



V24

Token published the latest V24 schedules on his website. Check for updates regularly
http://www.tokenradio.net/Radio/SharedFiles/NumbersTfer/V24_M94_latest_sched.JPG

MORSE STATIONS



M01

5465 kHz, 22-01, 0700 UTC. Many (intentional?) errors

197 (R) 801 801 30 30 = =
 12815 12815 09253 97169 29529 61109 62663 25543 25543 67376
 87376 90584 90584 37068 37068 010116 01016 62237 93387 93387
 11072 75286 75286 07647 07647 81929 11181 11181 52055 52055
 14285 14285 53520 53520 00945 00945 885 4885 14423 85
 53504 53504 3. 06 36106 54001 54001 43888 74372 67527 = =
 801 801 VE 30 30 00000



M12

10547/9047/7547 kHz, 11-01, 1400/1420/1440 UTC

505 505 505 1 2713 49 2713 49
36213 36588 55062 89770 31765 29053 39337 29160 60210 66981
87871 80534 18075 48729 99472 33752 54031 62963 24757 08139
68076 73146 49332 60180 84073 95727 95107 23084 74626 45653
50157 64495 26012 73991 66373 85772 61275 95948 83460 59791
16807 22420 36411 90644 46359 18114 59494 01255 56803
000 000

5838/7438/9238 kHz, 14-01, 0600/0620/0640 UTC

842 842 842 1 9047 139 9047 139
83308 78319 04964 11076 37726 47246 37914 40561 98755 28794
93911 52833 61532 48088 70049 62679 63451 43700 08013 49640
13130 36976 84477 55235 25221 44848 31657 25061 58991 55935
33773 76741 85552 21692 86235 92053 01139 94943 88791 50295
73164 88890 36828 85184 22516 21774 83055 61251 27254 09615
88133 45857 72148 60412 39585 38159 39756 65900 57617 56743
39865 07633 69088 83415 91930 74027 15733 16536 35922 53390
79929 18285 09936 89108 35760 22863 45393 30428 60421 17172
31994 64806 06962 47692 35884 12277 75583 19509 70641 48126
24770 86014 45851 73736 91021 68103 15666 31148 27882 22439
03513 80576 14047 39831 81168 12697 42138 40271 60750 96154
38742 90886 49598 01787 06425 72013 06646 90501 02491 80074
13825 74248 89465 49825 94711 30785 45598 24516 66603 60022
67402 58766 23777 11641 33939 54581 30149 49781 56640
000 000

10547/9047/7547 kHz, 14-01, 1400/1420/1440 UTC

505 505 505 1 5576 57 5576 57
54642 61599 54298 41785 43599 43719 10940 03964 15931 03998
40752 29904 21041 41228 49982 29808 67978 32126 13055 92553
95439 77250 06604 99962 81487 75192 74845 54040 11821 61955
70758 92355 32757 27978 04106 07315 52090 80397 54627 64336
54282 04434 45962 56139 10304 78636 75799 38598 97779 27660
14299 73498 07705 46197 52963 62952 41679
000 000

13369/14669/15969 kHz, 15-01, 1010/1030/1050 UTC

369 369 369 1 5304 193 5304 193
21604 46105 52015 07837 86611 53022 21050 50732 54046 77794
67103 48776 00110 55119 83238 04367 79623 42610 80947 67556
86064 72530 51855 86319 50164 59916 78651 34631 64209 08098
95237 99418 67870 68628 32856 29734 80813 81321 09644 57002
25339 33341 62050 97234 93545 33483 92136 39111 07357 52045
39943 70982 56780 06596 99510 65312 84031 00910 42192 23462
96491 25613 08988 34713 77964 04466 80111 76617 76544 62195
30376 27871 80151 01037 93401 86686 71103 92640 17896 06665
46177 98711 17585 22056 21088 86187 48675 98520 92689 01412
43894 84252 83231 75411 89540 45335 60474 23387 24880 73314
96115 63038 63894 69187 31521 52019 71748 92864 81849 26708
84257 11018 62417 55058 59244 26227 68740 59774 73094 46037
84076 79356 80063 61758 60487 86323 31370 21641 70604 61481
68958 90535 21045 51872 83620 38439 72054 94409 48710 60042
51588 75066 90453 00360 82934 03469 39582 20993 59325 20271

00780 39445 37882 71024 31937 44579 81413 67360 24578 77472
87162 71541 67692 30388 93797 48451 83097 59616 52025 29156
79647 27852 20316 46355 47688 31978 27300 90463 73466 83833
35057 28186 36418 74362 78538 06356 57688 29277 52694 39844
99411 47405 69244
000 000

13386/12189/11491 kHz, 17-01, 1300/1320/1340 UTC

725 1 9051 60 9051 60
58885 91650 58421 07959 44666 82687 01014 40904 23113 20064
37015 94514 38250 84593 02962 15061 87015 42504 57825 56669
56262 22820 16906 32068 08050 58858 42024 52193 76752 07941
09741 67171 58160 71722 47769 55703 45943 49641 24179 27042
74220 65532 35272 93902 03078 40376 74402 22975 25008 33523
58550 52364 71077 82346 89130 99720 41870 72802 94041 11789
000 000

13369/14669/15969 kHz, 19-01/22-01, 1010/1030/1050 UTC

369 369 369 1 3985 157 3985 157
92408 57669 85484 44796 41854 13646 18181 18757 20951 98030
39111 78194 60239 28692 65303 54734 58267 21375 33888 50764
15031 67072 99998 14870 76159 55520 22258 46319 07667 65486
10275 50679 60761 87978 73360 53763 47097 15869 88654 34586
86703 90874 94282 04209 60698 38607 29412 54048 06379 47097
44376 40518 50070 43385 55800 99879 50544 14713 55622 10084
69649 66073 29509 94017 43896 91706 36787 73792 59473 45522
37495 06178 80435 74774 48227 19190 09192 00103 49246 01919
25883 10263 36752 22753 43259 81358 09837 48233 57513 19152
21020 35792 11928 26699 51512 02347 67540 70700 05896 35060
86330 55174 48806 59031 96040 66338 27641 00053 94131 32875
95778 64104 77999 92285 80686 64092 96702 30739 51309 53896
06909 26703 78453 08623 15895 70875 22871 50292 42749 81122
25230 65819 10722 18152 78793 34995 85718 17468 10691 86050
05347 27685 38743 22504 30121 26980 68222 48583 09680 27759
00070 20153 77187 64742 12382 86994 91714
000 000

14377/13461/12114 kHz, 19-01, 1230/1250/1310 UTC

317 317 317 1 518 44 518 44
91980 50487 90978 62875 96180 03951 74718 80728 49534 21210
28634 70953 68026 30700 06338 21827 80391 71758 63262 11701
18836 94898 78013 95482 36531 56564 05033 87601 03505 67823
53219 13548 59397 24039 39762 09394 41157 26871 36570 81645
10587 30863 08668 60324
000 000

Note: There was a break during the 1250z transmission. After that there was a restart.

10547/9047/7547 kHz, 23-01/25-01, 1400/1420/1440 UTC

505 505 505 1 5576 57 5576 57
54642 61599 54298 41785 43499 43719 10940 03964 15931 03998
40752 29904 21041 41228 49982 29808 67978 32126 13055 92553
95439 77250 06604 99962 81487 75192 70845 54040 11821 61955
70758 92355 32757 27978 04106 07315 52090 80397 54627 64336
54282 04434 45962 56139 10304 78636 75799 38598 97779 27660
14299 73498 07705 46197 52963 62952 41679
000 000

6904 kHz, 25-01, 1840 UTC

257 257 257 1 8054 147 8054 147
18839 09949 04530 80092 98582 03451 69000 70384 63376 64430
12816 40970 88138 54873 61173 54717 00606 59539 27214 39242
96592 57751 65260 75147 63542 03656 13359 26883 92198 21304
58333 53928 00584 8??72 56382 68863 3??24 90992 43802 18343
72399 07949 87279 47733 92683 33961 80064 77584 24785 58755
06518 33589 14804 44685 53401 26508 44779 21091 88871 72289
41360 18257 13183 41888 05778 50334 13993 31508 22689 03771
65405 70?95 30336 81961 80657 46257 23720 74566 2489? 26538
40614 42633 51017 19236 15963 85458 04752 17408 58236 13669
11?29 68131 83754 74604 47711 4?613 78333 87025 65127 47801
61415 43209 22470 90248 91704 12285 07948 44728 91697 07066
86023 42417 38522 10707 02578 14045 02638 39437 65830 78302
72532 27347 36051 12702 14272 63488 76897 12493 388?3 19?26
05495 50904 28476 02586 58310 67904 04787 38878 37602 45481
06286 72275 30399 77322 84490 76332 22101
000 000

5361/4461/4061 kHz, 25-01, 2200/2220/2240 UTC

340 340 340 1 3892 155 3892 155
53378 52478 58866 00477 66270 16603 07499 16218 11793 53674
09927 75270 45688 38003 80175 49479 43961 00979 02840 10087
42443 96916 19514 28637 27363 96212 76052 13360 96797 31631
61106 78058 70135 70374 89273 90532 97955 48459 19898 70605
81753 66788 44802 22279 47603 76678 48953 36087 03329 92563
36993 24226 71011 89503 36291 59493 46273 24063 50622 28187
11777 21077 22757 28915 91501 62208 20644 12426 07363 12484
23120 08179 27199 61645 93511 66092 97584 61283 18595 68402
22765 10047 90617 93843 53069 40494 41335 34408 33044 18934
93910 01845 49150 86031 43567 51670 77670 39293 33096 89161
50848 98753 10549 70424 16859 08129 88760 55702 46187 52189
70405 21492 86587 04645 66290 87585 59117 75713 08975 74081
40891 26918 50477 64058 44935 88114 29096 90830 46515 60683
41776 39656 87862 14996 11921 01875 85905 96677 60860 29685
04817 94501 95355 01981 17139 15336 10924 30085 59569 96284
67280 76920 38871 47695 55634
000 000

7692/6792/5892 kHz, 26-01, 1310/1330/1350 UTC

678 678 678 1 3546 71 3546 71
83613 85499 04939 01512 61536 80439 69077 92657 01956 07291
79188 36449 16672 36022 02840 15923 90828 35822 76060 66256
88534 43938 05679 12480 72145 88165 39012 23737 89361 30576
37109 37817 53957 86093 81667 80357 02379 22355 60884 85623
46398 99924 88355 83520 57849 39306 57663 45446 36954 91392
91699 64956 72078 24444 42191 04795 20694 23385 76404 53653
51752 96046 54185 35080 71717 18970 88658 02906 18963 00134
52462
000 000

5838/7438/9238 kHz, 28-01, 0600/0620/0640 UTC

842 842 842 1 3892 155 3892 155
53378 52478 58866 00477 66270 16603 07499 16218 11793 53674
09927 75270 45688 38003 80175 49479 43961 00979 02840 10087
42443 96916 19514 28637 27363 96212 76052 13360 96797 31631
61106 78058 70135 70374 89273 90532 97955 48459 19898 70605
81753 66788 44802 22279 47603 76678 48953 36087 03329 92563
36993 24226 71011 89503 36291 59493 46273 24063 50622 28187
11767 21077 22757 28915 91501 62208 20644 12426 07363 12484
23120 08179 27199 61645 93511 66092 97584 61283 18595 68402
22765 10047 90617 93843 53069 40494 41335 34408 33044 18934
93910 01845 49150 86031 43567 51670 77670 39293 33096 89161
50848 98753 10549 70424 16859 08129 88760 55702 46187 52189
70405 21492 86587 04645 66290 87585 59117 75713 08975 74081
40891 26918 50477 64058 44935 88114 29096 90830 46515 60683
41776 39656 87862 14996 11921 01875 85905 96677 60850 29685
04817 94101 95355 01981 17139 15336 10924 30085 59569 96284
67280 76920 38871 47695 55634
000 000



M14

4975 kHz, 06-01, 1758 UTC

382 382 382 00000.
Operator chat after the transmission at 1803 UTC:
37 18 A10 Azimuth 75

4636 kHz, 10-01, 1820 UTC

186 (R) 2222 518 518 86 86
3258 53500 12865 21208 51810 31717 255 1665 86113 221
58500 8532 281 26650 0033 51526 3366 76712 8162 58500
5115 10200 37501 2338 15271 6358 61772 5718 32551 8721
36515 826 33876 25237 50630 53732 11737 3850 2351 27136
5373 25850 8070 30012 5123 5815 50601 2553 27575 173
53850 72185 1612 51078 01276 53850 0308 2518 53500 02561
53718 5531 7816 85162 7335 6172 5161 83501 01561 73282
5200 71058 58512 63501 0207 6570 25078 80825 52727 8621
53712 6350 82310 2053 57286 61220
518 518 86 86 00000

Again with Russian voices after the transmission:
3rd, transmitter 22, antenna 19, azimuth 272
4-th, transmitter 23, antenna 23, azimuth 290
? transmitter 37, antenna 63, azimuth 250.

5430 kHz, 14-01, 0800 UTC

171 (R) 2222 28 28 58 58
37612 37505 806 806 32250 32250 72880 72880 72115 72115
55586 55276 1735 185 8731 8731 50653 50653 058 058
10100 1010 53082 53082 26 563 51771 61770 22058 22058
5855 5862 305 305 88105 88105 0058 00038 72530 75530
55051 52050 5880 63871 255 555 610 610 82070 82070
51860 51860 030 000 82630 82630 55215 52215 2657 5628
51161 51160 8255 8255 0871 0871 21505 21505 520 520
52751 52751 15081 15081 805 705 53801 5801 26331 260
5062 50362 7705 7705 83210 83210 63051 63051 1000 1010
62085 55085 8360 83630 58501 58501 537 5887 62181 65080
52750 52760 0080 0080 53117 53118 8052 71055 3871 3871
52850 55851 05528 15257 55050 55021 58501 58501 00500 01500
??? 2855 87000 87000 2050 2050 8005 8005 53052 5055
26061 26051 6671 6670 20800 20800
28 28 58 58 00000

4639 kHz, 24-01, 1820 UTC

186 (R) 5522 518 518 86 86
3268 5500 12865 21208 51810 31717 255 1665 86113 221
5850 8532 281 26650 0033 51526 3366 76712 8162 58500
5005 10200 37501 2338 15271 6358 50885 61772 5718 32551
8721 36515 826 33876 25237 50630 53732 11737 3850 2351
27136 5373 25850 8070 30012 5123 5815 50600 2553 27575
53850 72185 1612 51078 01276 5850 0308 2518 53500 02561
53718 5531 7816 85162 7335 6172 5161 83501 01561 73282
5200 71058 58502 63501 0208 6570 25078 80825 52727 8621
53712 650 82310 2053 57286 61220
518 518 86 86 00000

5240 kHz, 29-01, 2300 UTC / 5825 kHz, 30-01, 0000 UTC

376 613 613 82 82
76251 82420 63321 84762 90001 63191 53772 48291 80345 76619
37281 44882 00655 27163 85524 04072 74541 73392 56012 31062
63880 93652 61710 87201 85491 63881 42608 90701 40027 55217
63381 93671 53122 70436 62117 70239 55411 61901 63888 92441
53790 84151 39959 00466 72261 84255 05003 77282 56201 60942
52771 43902 33735 72431 88465 72209 00512 31210 62091 50544
60011 74109 62420 52883 74507 54637 23110 63908 52260 74091
52081 43309 70551 10103 40622 82146 70336 42801 63035 62091
76351 82240
613 613 82 82 00000



M22 - 4XZ

6607 kHz, 05-01, 1838 UTC

VVV DE 4XZ 4XZ == AR AR
NW QTC 1 NR 801 == NR 801 FU V LK50 942150 HB7U GR 34 ==
HUHUH XIDDC GCOIA TYBYB KKZNM PWPEU DTAER WUCQA SSFIU NNKTS
UEXNQ LIFNK CDFSI MAMAG HKLQS BEZOK ALSCO CYBJI KELLC RAQBQ
WICZY OJNRN NRWSN WMWRI MLURN QKXQU CBSOX SKUSE KKCAN FNGLI
KOMNG ZDLKO JHHAB GWWIJ KSLXF ECMQK OHILD PYQBD GGOSU MQELJ
== AA GR 04 ==
HQYNK IZNCJ XIDDC ==
NR 801 FU V LK50 942150 HB7U GR 34 ==
HUHUH XIDDC GCOAA TYBYB KKZNM PWPEU DTAER WUCQA SSFIU NNKTS
UEXNQ LIFNK CDFSI MAMAG HKLQS BEZOK ALSCO CYBJI KELLC RAQBQ
WICZY OJNRN NRWSN WMWRI MLURN QKXQU CBSOX SKUSE KKCAN FNGLI
KOMNG ZDLKO JHHAB GWWIJ KSLXF ECMQK OHILD PYQBD GGOSU MQELJ
== AA GR 04 ==
HQYNK IZNCJ XIDDC ==
NR 801 FU V LK50 942150 HB7U NR 34 == AR AR
VVV DE 4XZ 4XZ ==

6607 kHz, 18-01, 2208 UTC

i.p. DAGGP LSNRF KKSMZ CMITU EYKRZ FSZLU
CRURM IIZJM UYMIO WMZPH MCIDM MYDIZ BDTRW JZKWX SUWSR GRALY
DKKCU KRUAX JSWKR CMLUW ZTFEN LAKWU FXYZW HBJRS FTYSA GHBJJ ==
NR 214 UT V ZH0F 909181 YD9K GR 33 == AR AR
VVV DE 4XZ 4XZ ==

VVV DE 4XZ 4XZ == AR AR
NW QTC 1 NR 714 == NR 714 OT V UA9U 520281 TO2J GR 01 ==
TJTJT QZIFJ GRAZG YXDQE YTSWO CWCDT ILTEW CGBIW TOFRO QZIFJ ==
NR 714 OT V UA9U 520281 TO2J GR 01 ==
TJTJT QZIFJ GRAZG YXDQE YTSWO CWCDT ILTEW CGBIW TOFRO QZIFJ ==
NR 714 OT V UA9U 520281 TO2J GR 01 == AR AR
VVV DE 4XZ 4XZ ==

VVV DE 4XZ 4XZ == AR AR
NW QTC 1 NR 614 == NR 614 CT V SQ4T 420281 RM0F GR 01 ==
RFRFR WPPAI WMUPW ISGDR MPPMF RTCMW IONXK DXCIJ DXDTJ WPPAI ==
NR 614 CT V SQ4T 420281 RM0F GR 01 ==
RFRFR WPPAI WMUPW ISGDR MPPMF RTCMW IONXK DXCIJ DXDTJ WPPAI ==
NR 614 CT V SQ4T 420281 RM0F GR 01 == AR AR
VVV DE 4XZ 4XZ ==

VVV DE 4XZ 4XZ == AR AR
NW QTC 1 NR 514 == NR 514 MU V ZH0F 420281 ZH1G GR 01 ==
ZGZGZ NPULK UPIKX NESUN LHGIY PFGLK BISQO SKHMQ ULJGC NPULK ==
NR 514 MU V ZH0F 420281 ZH1G GR 01 ==
ZNZGZ NPULK UPIKX NESUN LHGIY PFGLK BISQO SKHMQ ULJGC NPULK ==
NR 514 MU V ZH0F 420281 ZH1G GR 01 == AR AR
VVV DE 4XZ 4XZ ==



M41
Russian Air Defence Forces
Во́йска ПВО Voyska PVO

4542 kHz, 27-01, 1424 UTC

1518 7145 0189 1088 23 =
1518 714 2655 25 K =
1518 714 2652 27 =
1518 714 2647 91083 28 =
001518 71456 43910 08836 =
0015 187 1456 33910 1736 =
1518 7145098 91088 41 =
1518 7145095 43 =
1518 7145064 45 =
1518 7145061 47 =
1518 7145084 49 =
1518 7145082 51 =
1518 7145018 53 =
1518 7142655 55 =
1518 7142659 57 =
1518 7142647 59 =
1518 7142694 00 =
1518 7182783 90 02 =
00 1518 71426639 1 088 03 =
00 1518 714266391 18 03 =
1518 7142658 04 =
PWZW =
1518 718276190 06 =
00 1518 714501191 088 07 =
00 1518 7145011 91 18 07 =



M89 - Chinese military

4769 kHz, 06-01, 1210 UTC, i.p.

CK 19 57 EEEEE
R 7G NR 0340 EEEEE
R EEEEE
R 7G GA
NR 034 CK 99 57 0106 2010 RMKS .138 TO 643. K
RR OK
R 7G GA =
UD75 476T A36T 43TU DT6U 74T5 A3TD DNAT TT4A TTAA (Cont'd)

5829 kHz, 06-01, 1116 UTC, i.p.

HR NR 118 HR NR 118 K
QSL ?
QSL (All station on this frequency, but mostly unreadable)
WNIQ WNIQ DE WECJ WECJ K
R QSA .. ?
QSA ?
QSA ? K
OK HR NR 1010 K

R OK NIL SK GB
VV K
R QSA 4 QSA ? K
QSA 1 K
R QSA ? K

6743 kHz, 06-01, 1108 UTC, i.p.

U6AN 7545 A5D5 5TAD (Cont'd)
26W = = DAT. (Other station also on this frequency)
R QSL 1.10 K
R HR NR 1.. K
R HR NR 1570 K
R NR 1010 K
R .. SK GB

3757 kHz, 10-01, 1238 UTC, i.p.

VVV KFLH DE UFT8 QSY 0257 QSY 0257 K K
VVV KFLH DE UFT8 QSY 4636 QSY 4636 K K
..86 DE KFLH KFLH F QSA 2 QSA ?K (Appears that QSY 4637 refers to this frequency - 3757!!!)
RRR QSA 4 ... K
R R = = 543 EEEEE AR =
3655 AR
R HR WK NR 312 K
HR WK NR 312 K
R R HR NR 106 K
R R HR MSG GA K
R OK
MSG NR 4079 CK 50 35 0110 2020 RMKS .832 TO 9.62 K K
NR 4079 CK 4. 35 0110 2020 RMKS
R TIME K
R R .. = 2020
R OK K
R GA
= = = AR
R RPT 14 K EEEE RPT 14W K
RPT 32W TO 35W K
R RPT 41W K (
R OK QSL 2054 K
R AS AS
HR 7G GA
NR 4089 EEEEE
HR 7G GA
NR 4089/K EEEEE
HR 7G GA
NR 489 CK 41 35 0110 2020 RMKS 9462 TO 4832 K
R GA
R R 7G GA
7N4T ATTA A75A A764 (Cont'd)

3844 kHz, 13-01, 1655 UTC, i.p.

7ZZ DE JVG QSA ? VVV
7ZZ DE JVG QSA ? K
VVV 7ZZ (x3) DE JVG (x2) QSA T QSY 28
VVV 7ZZ DE JVG QSA T QSY 47 QSA T QSY 28
VVV 7ZZ DE JVG QSA T QSY 28 QSA T QSY 28 K
VVV 7ZZ DE JVG QSA T QSY 28 QSA T QSY 28 QSV QSV K
VVV 7ZZ DE JVG QSV QSV
VVV 7ZZ DE JVG QSA 1 QSV QSV K
VVV 7ZZ DE JVG QSA 1 QSV QSV K

4609 kHz, 13-01, 1608 UTC, i.p.

ANA3 4A4N A75U 7DDA (Cont'd)
III BT AUAD A3T4 7ND6 AT6N 67NU (Cont'd)
III BT N7AN 53A6 (Cont'd)
7G NR 053 CK 499 44 0114 0000 =
UT63 A3NT UAD7 6DTA 7A3T 6TA7 (Cont'd)

5535 kHz, 16-01, 0907 UTC, i.p.

R R MSG GA K K
R R MSG NR 0509
NR 021 CK 21 89 0116 1506 RMKS = 1610 TO 1613 AR K
MSG NR M EEEE MSG
NR 021 CK 21 89 0116 1506 RMKS = 1610 TO 1613 AR K
R R = =
56N7 4A5T DN7T 456T 7DNU UU43 5N74 3D47 ND7T 4567
DNTU DTU3 44DN 4D.N .3N4 N... .7NA DADU DNT4 7DTU
UU56 AR K
R R .. SK

5566 kHz, 16-01, 1336 UTC, i.p.

PSE U MSG
QSA ? K
R QSA 3 PSE U MSG PSE PAJ
R QSA 3 PSE U MSG PAJ
HR VA S PSE U QSY TE
R U . QSA 1 PSE U QSY .. 02
CY
.Y HW ?
QSA ? K
R HR CY .. U . PSE .. RPT 2 NW .

5801//10180 kHz, 16-01, 0928 UTC, i.p.

4355 ANDD 745T 3TT5 TT33 DT5N
III BT 6A6U DA7U 6AU6 AU67 (Cont'd)
III BT 65N7 D4U7 3T55 5437 5TT4 (Cont'd)
AR QSL ? HR WK NR 430

5308 kHz, 17-01, 1409 UTC, i.p.

A4DN D73T 65NA NTU4 (Cont'd)
III III = = D5A6 ..4D T6UD 546A AUTN (Cont'd)
III III = = UD3T T75D 7N36 5D7N U465 56TA TA64 (Cont'd) AR
MSG NR 001 CK 299 13 0117 22.. =
HR MSG ..1 EEEE
NR 0001/CCK CK299 14 0117 2200 RMKS 018. TO 0111 0112 =
6D. 3U7N 4NA6 DTU7 73AN 4N5A 3N4U D7U6 TTTT TTTT 37UD (Cont'd)
III = = D5A6 3T4D T6UD 54.A TTTT TTTT (Cont'd)
III = = UD3T T75D 7N36 5D7N U465 ..TA TA64 T7U5 TTTT TTTT (Cont'd)
(Note: 9th and 10th group in each section sent as TTTT TTTT)
AR AR AR SK GB

7610 kHz, 21-01, 0307 UTC, i.p.

691 DP91 QSA NIL SK
SK GB
DP6891 DP91 QSA 4 NIL SK
SK GB
DP6291 DP91 QSA 4 NIL
SK GB
DG 6 89 1

3678 kHz, 22-01, 1442 UTC

91 0122 1040 RMKS 7790 TO 7667 K

RMSK 7790 TO 7667 K

R

NR 0158 CK 101 91 0122 1040 RMKS 7790 TO 7667 K

R =

R

NR 0158 CK 101 91 0122 1040 RMKS 7790 TO 7667 K

K

= R =

N3A5 AD6T UN47 446T A5U4 AU3A DDNN 3667 A3NT TTA6 (Cont'd)

5801/10180 kHz, 22-01, 0242 UTC

755T 67UN 6AAT UTT7 6346 (Cont'd)

III = 3TUA 4N6N UNA7 NA36 (Cont'd)

III = 5.D4 (Cont'd)

HR WK NR 430 E

7610 kHz, 22-01, 0300 UTC

DP6291 QSA 3 NIL

SK SK

N DP6291 QSA 3 NIL

SK GB

DP6891 QSA 3 NIL

SK GB

=

X N DP8391 QSA 3 NIL

SK GB

== =

7931 kHz, 22-01, 0933 UTC

H29M DE CZTA

NWQT DE CZTA K

WWKW DE CZTA K

9OFF DE CZTA K

K86J DE CZTA K

3145 kHz, 29-01, 1726 UTC

VV 5PUM DE D8YF K

OK QSL QSL 0125 0125 K

HW NR 109 109

R NIL SK GB

VV 5PUM DE 7THR K

R OK QSL QSL 0128 0128

R HR NR 012 012

NIL SK GB

3412 kHz, 29-01, 1742 UTC

U6NA 3546 U45A U57D NT6U (Cont'd) AR

HLR. K (Other station also on this frequency)

RPT 04.. EEEE 04

R RPT K

NPT 1. 04W TO 15W K

R Q AS

QSL K

QSL EEEE QSL 0154 EEEE QSL 0153 K K

R SK SK SK SK

7610 kHz, 29-01, 0257 UTC, i.p.

DP85 DP8391 QSA 3 NIL

SK GB

= =

DP.191 QSA 3 NIL

SK GB E

=

DP6291 QSA 3 NIL

SK GB

=

DP6.91 QSA

DP6.91 QSA . NIL

SK GB

= = = = = =

DP6691 QSA 3 NIL

SK GB

= =

DP6691 QSA 3 NIL

SK GB

3642//7602 kHz, 30-01, 0247 UTC, i.p.

5U6N 5U7U A36D UU6U UAN5 ... AR

QSL ? HW QSL ? EEEE HW WK NR 01 EEEE

HR WT EEEEE HR WK NR 100

7610 kHz, 30-01, 0300 UTC, i.p.

DP6191 QSL NIL

DP6191 QSL 2 NIL

DP6991 CK S 2 NIL

DP6991 QSA 2 NIL SK GB

E DP6291 QSA 2 NIL SK GB

E E IK GB

DP62 DP6891 QSA 2 NIL SK GB

E DP6191 QSA 2 NIL

SK E GB E

DU.8391 FM 5? T2 E

DP8391 QSA 2 NIL SK GB

= LL LL

DL

6622 kHz, 31-01, 1035 UTC, i.p.

R RPT 1P 51W K

R QSL 1.35 K

R HR WK NR 111A

R DE 38EW K

R RPT 1P .12 K

OK

R RPT 1P 71W K

R RPT 2P 21W K

R RPT 2P 21W K

R RPT 2P 21W K

R RPT 5.W TO 59W K

R OK QSL 1839 K

R HR WK NR .2 K

OK

DE J..L K

RPT 71W TO 7.W K

RPT K

R RPT 1P 90W K

R OK OK QSL QSL 1844 AIIIII R QSL 1844 K
OK OK
R HR WK NR 107 K
DE Q2C. K

6865 kHz, 31-01, 1104 UTC, i.p.

R QSL 1904 K
HR F GA K
R FF NR NR 3162/EX 1905 RMKS 7414 TO 7556 K
R FF NR NR 3162/EX K
R F GA = =
Q2X5/D4L3 AR
BT Q2X5/D4L3 AR K
R F BT Q2X5/D4L3 AR =
Q2X5/D4L3 AR K
R OK
R GA K
AS AS

7932 kHz, 31-01, 1015 UTC, i.p.

6NA7 635D T3N3 74U4 54UN (Cont'd)
III = NDT3 5NA7 4D6U N57U 3T57 (Cont'd)
AR K
R HR /205 K
R HR NR 205 EEEEE R HR /205 K
R NIL SK GB



M95

4243//9054 kHz, 01-01, 1148 UTC, i.p.

HR 7G TO YR PSE CY
NR 026 CK 20 35 OAT
NR 026 CK 20 35
NR 026 CK 20 35 0101 ..10 =
... TTT 3U6 3A4 353 36. 4AA N3D (Cont'd) AR
7G AGN
NR 026 CK 20 35 0101 1510 =
5TD .TT TTA 3U6 3A4 353 36A 4AA N3D 4A5
UT. UN4 T44 53DA TTU TT3 773 446 3D3 4DD AR
A HR 7G GA
NR 02 CK 166 35 0101 1600 =
UTU TTA 3U6 3A4 TTU 773 353 N3D .5U NUD (Cont'd) AR
A HR 7G GA
NR 024 CK 19 35 0101 1640 =
UT5 TTA 3U6 3A4 TTT TTU TT3 773 353 N3D
35. 36U 4AA 336 N3D 4TA 435 4D4 3DA AR
7G AGN
NR 024 CK 19 35 0101 1640 BT (Repeats message) AR
A HR UP SB WK

4243//9054 kHz, 01-01, 2344 UTC, i.p.

NR 02. CK 19 35 0102 ..2. =
UT6 A. U T3 (Cont'd) AR
7G AGN
NR 025 CK 19 35 0102 06.. =

UT5 T.. (Cont'd) AR
A HR 7G GA
NR 2. CK .9 35 .00.. =
(mostly unreadable) AR
7G GA
NR 02. CK .9 35 0102 0650
.TD ... (Cont'd) AR (
7G GA
NR .06 CK (Cont'd)

5500 kHz, 01-01, 1036 kHz, i.p.

AR HW NR ..
AS
HR CQ MSG GA
MSG NR 01/CCK CK 55 53 90 RMKS CQ =
N65. N.84 D7.T (Cont'd) AR

8073 kHz, 01-01, 1142 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 0003 CK 288 35 0101 1550 =
TTA 3U6 3AN 3U7 TAU 773 353 45N 4T3 NN3 (Cont'd) AR
A HR 7G GA
NR 0004 CK 30 35 0101 1553 =
TTA N5U TTA N53 TAD N54 7TT TUT 746 7T5
77T DN3 7T7 TUU 773 TA4 773 TU5 773 TU6
773 TU7 773 TUN 773 7AN 7AD N47 3AN 7U5 AR AR

4243//9054 kHz, 02-01, 1149 UTC, i.p.

V HR MSG TO YR PSE CY
21 2. 35 0102 1526 =
UTT TTU 3U6 3U63 A43 533 5D4 A5D N3D
4AA U7U N4A 434 3DA TTU TT3 773 446
3DU 4D3
A HR
ODUA AKTTA EEEEE AK =
CK 170 35 0102 1620
TTU 3U6 3A4 TTU 773 (Cont'd)

5120 kHz, 02-01, 1204 UTC, i.p.

HR VC GA
SVC GA
= 689 NR . 58 NR 8316 /12/21/ EEEE 89/X.. DE 8306/12/21/71/XL157A/COMM/8865 AR
= 689/X6558/8316/12/21/71/XL158A/COMM/8865 AR
HR NR 1030 HR NR 1030
NIL SK
VV HPQS HPQS DE RTLC RTLC
HR 7G GA
MSG NR 04/CCK CK 28 39 0102 2000 RMKS 8865 TO 898. 9965 3505 0297 35DE.
NT73 5D7T 467A A46T 6UU4 AD4U 3UAT 374D TUTD TTAA A4ND (Cont'd) AR
MSG NR 04/CCK CK 28 39 0102 2000 RMKS 8865 TO 898. 9.65 3505 0297 3567
NT73 5D7T 467T A46T 6UU4 AD4U 3UAT 374D TUTD TTAA (Cont'd repeat message) AR
HR NR 1030 HR NR 1030 NIL SK NIL SK

8073 kHz, 02-01, 1137 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0007 CK 239 35 0102 1559 =
TTU 3U6 3AN 3U7 TAU 773 TA7 773 353 35N (Cont'd)

4243//9054 kHz, 03-01, 1147 UTC

HR MSG TO YR PSE CY
NR 030 CK 22 35 0103 1448 =
5TU (Cont'd) AR
NR 06 CK AR
7G AGN
NR 030 CK 22 35 0103 1448 =
5TD UTT TT. 3UD 4A4 35U N3D 353 36T 4AA
N3D 4TA U7U N4A 444 3DA TTU TT3 773 435 3D. ... AR
A HR 7G GA
NR 06 CK 132 35 0103 1625 =
UTU TT3 3U6 3A4 TTU 773 35A U4T 353 DN7 (Cont'd) AR
7G AGN
NR 06 CK 132 35 0103 1625 =
UTU TT3 3U6 3A4 TTU 773 35A U4T 353 DN7 (Cont'd) AR
A HR MSG GA
NR 030 CK 19 35 0103 1652 =
UT5 TT3 3U6 4A4 TTA TTU 773 .5U U4T 35.
4.A 4AA 436 N3D 4T3 445 4D4 3DA AR
7G AGN
NR 030 CK 19 35 0103 1652 = (Repeats message) AR
A HR UP SB WK AR AR

4364//8073 kHz, 03-01, 1138 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0009 CK 180 35 0103 1552 =
TT3 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 TU3 773 353 (Cont'd)

4243//9054 kHz, 04-01, 1149 UTC

VV HR 7G TO YR PSE CY
NR 032 CK 18 35 0104 1525 =
5TD UTT TT4 3U6 3A4 353 35D 4T3 U7U ND4
445 3DA TTU TT3 446 3D3 4D4 AR
MSG AGN
NR 032 CK 18 35 0104 1525 =
5TD UTT TT4 3U6 3A4 353 35D 4T3 U7U N4A
445 3DA TTU TT3 773 446 3D3 4D4 AR
A HR MSG GA
NR 08 CK 122 35 0104 16.3 =
UT. TT4 3U6 3A4 TTU 773 353 (Cont'd) AR
MSG AGN
NR 08 CK 122 35 0104 1613 =
UTU TT4 3U6 3A4 TTU 773 353 U4T 354 DN7 (Cont'd) AR
A HR MSG GA
NR 033 CK 15 35 0104 1631 =
UT5 TT4 3U6 3A4 TTA TTU TT3 773 356 75D
36T 4A7 445 4D4 3DA AR
MSG AGN
NR 033 CK 15 35 0104 1631 =
UT5 TT4 3U6 3A4 TTA TTU TT3 773 356 75D
36T 4A7 445 4D4 3DA AR
A HR UP SB WK

8073 kHz, 04-01, 1136 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG
NR 0011 CK 162 35 0A04 A... =
TT4 3U6 4AN 4U7 TAU 773 (Cont'd)

4243//9054 kHz, 06-01, 1148 UTC

V HR 7G TO YR PSE CY
NR 036 CK 20 35 0106 1506 =
UTT TT6 3U6 3A4 35U N3. 354 373 4T4 U.U
N4A 444 3DA TTU TT3 773 435 3DU 4D3 AR
A HR 7G GA
NR 039 CK 21 35 0106 1639 BT
UT5 TT6 3A4 TTA TTU TT3 773 357 37U 36U
4AD 445 33U N3D 4T3 446 4DU 3DA N3D 3DU AR
A HR 7G GA
NR 12 CK 146 35 0106 1624 BT
UTU TT6 3U6 4A4 TTU 773 35A N3D 353 (Cont'd) AR
A HR UP SB WK

8073 kHz, 06-01, 1136 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0015 CK 149 35 0106 1648 =
TT6 3U6 3U7 TAU 773 TA7 773 TAD 773 TAN 773 TU3 773 353 (Cont'd)

5555 kHz, 08-01, 1230 UTC, i.p.

00G RR..
WDEA WDEA DE KRSY KRSYK
YK7/6 EEEE
000005 EEEE EEEOKR KLT KLWZ SYPO ORWXHMOWOP K N? R TKS T QSV K
WOJS JIY WYOX NSYEOCPHFWYZ NJSO XKREEFOPMSHE KGOW =
EBAY DSLU RKOB Q FXR I FXRW PORZ XBLO WIOK CKOR HSRU
XESY UNOM LHYT KOBQ QFXR W MSHEKGOW .. YDEI EFOP MSHE
KGOW BAYD PORZ XBLO WIOK CKOR HSRU XESY UA EEEE UNOM
LHYT KOBQ FXW MROH FOLG YOGS PIQG XVJO OPTV OQSG NHMQ
UOGNF (Appears to be 4 letter coded message - Very rare)
OCPH FWYZ NJ.O
HR 7G GA K. HR 7G GA K
R R XX (Appears to be another station)
37N4 6TU7 7U3D ... DU4D 46AA (Cont'd)
PI QZXVJOOPTVQSG
HH NR 7G M QSR 7N
5 02. UAA. 7G GA K

5555 kHz, 08-01, 1335 UTC, i.p.

X.. AS
= 6 = 3AU5 E DE XNU3 TU56336 74A4 5U4T 7D56 NT77 TADD AU.6 TADT 7AUN DU6D NSN34A ? 4S EEEE DN6 T45 NU3T U563
3674 A45U 47D5 6NTT 7TAD DAUN 6TAD 7AUN DU3T N34 A5DN6 T45U U674 37D5 AD63 5NT7 4DN6 4DAN 37TD 6T3A 7A4U
5NUT DU53 T475 A5D6 U6D7 53N6 64TA T57. 6A3 N364 N734 AN56 UT67 TND4 54UD63A7D 3T76 UN65 5UND 63TN 3AD 774A
TN63 UTT ? T743 UD5U 4A3U U543 3654 4765 D5UA 5D76 7T7N NA5D 6ND7 T3UA NUAT UT35 ANU3 4365 536D 3A36
R NR 0002 ND NR 0023 CK N6 = CK CK N
R NR 0023 CK 96 24 09133 08235 =
5DN
CK = 0000
CK CK
R NR 0023 CK N CK ///C
NR 0023 CK 96 24 09A1 130
CK =
5NU6 N5UT TU3A 45N7 3T7D T46A (Cont'd)
CK =
X... QT.. VVV U5T
S5555AE AH 3 ... 00 ... K
HAHBT..V UH 55US ES AA5A 6 ES AS EEEEEEE
F5555 NS 0000 SHF 0 0 0
EUI H (Two stations now sending)

05 AH555S. SISA55555 0
467 AU. 4T4 5T57UNT

7553//9153 kHz, 09-01, 0934 UTC, i.p.

TTD 773 3AD 353 N3D 354
III 446 467 4D3 75D (Cont'd)
III 4A7 N3D 4T7 446 (Cont'd)
MSG AGN
NR 027 CK 207 35 0109 1615
7A7 UT3 TTN 3U6 TT4 773 3AD 35A U46 353 (Cont'd)
A HR 7G GA
NR 025 CK 96 35 0109 0710
7A7 UT3 (Cont'd)
MSG AGN
NR 025 CK 96 35 0109 0710
7A7 UTE TTN 3U4 3A4 TT4 773 353 U46 (Cont'd)
ZNN SK

4243//9054 kHz, 11-01, 1200 UTC, i.p.

446 336
MSG AGN
III NR 22 145 35 0111 1612 =
UTU TAA 3U. 3A4 TTU 773 35A (Cont'd)

8073 kHz, 11-01, 1151 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 0032 CK 47 35 0111 1617 =
TTA N5U TAA N53 TAD N54 7TT TT7 746 7T5 (Cont'd) AR
A HR 7G GA
NR 0033 CK 218 35 0111 1627 =
TAA 3U6 3.3 U.. (Cont'd)

4243//9054 kHz, 19-01, 1151 UTC

VV HR 7G TOYR PSE CY
NR 062 CK 22 35 0119 1526 =
5TD UTT TAN 3U6 7TA N44 3A4 354 377 4TA
U7U N4A 447 46D 3AU TTU TT3 773 44D 47T 3D5 4D3 AR
7G AGN
NR 062 CK 22 35 0119 1526 =
5TD UTT TAN 3U6 7TA (Cont'd) AR
A HR 7G GA
NR 38 178 35 0119 1548 =
UTU TAN 3U6 3A4 7TU 7TA 7T7 73U (Cont'd) AR
A HR MSG GA
NR 080 30 35 0119 1641 =
UT5 TAN 3U6 3A4 TTA TTU TT3 73354 377 N3D
353 U.6 35U 4TA 44D .6N .3U (Cont'd) AR
MSG AGN
NR 080 30 35 0119 1641 =
UT5 TAN 3U6 3A4 TTA TTU TT3 773 (Cont'd) AR
A HR MSG GA
NR 081 17 35 0119 1643 =
UT5 TA. 3UD 7TA TTA TTU TT3 773 4TA 44D (Cont'd) AR
7G AGN
NR 081 17 35 0119 1643 =
UT5 TAN 3UD 7TA TTA TTU TT3 773 4TA
44D 46N 33U 34U DUU DA5 N3... AR
R DN SB WK AR

8073 kHz, 19-01, 1143 UTC

V BNGC (x3) DE XSV85 (x2)
HW MSGS PSE CY
NR 0064 CK 331 35 0119 1546 =
TAN 3U6 3AN 3U7 TAU 773 357 4T3 (Cont'd)

7553//9153 kHz, 20-01, 0918 UTC, i.p.

MSG AGN
NR 059 CK 104 35 0120 1545
7AN UT3 (Cont'd)
MSG GA
NR 060 CK 193 35 0120 1545
7A7 UT3 TUT 3U6 TT4 773 3AD 353 (Cont'd)
MSG AGN
NR 060 CK 193 35 0120 1545
7A7 UT3 TUT 3U6 TT4 773 (Cont'd)
A HR MSG GA
NR 058 CK 124 35 0120 0714
7A7 UT3 TUT 3U4 (Cont'd)

4243//9054 kHz, 21-01, 1149 UTC

VV HR 7G TOYR PSE CY
NR 066 CK 21 35 0121 1512 =
5TD UTT TUA 3U6 7TA N.4 3A4 354 377 4A6
U7U N4A 446 3DU TTU TT4 773 447 46D 3D4 4D3 AR
A HR 7G GA
NR 42 CK 158 35 0121 16.. =
UTU TUA 3U6 3A4 7T7 76T 757 N44 756 33A (Cont'd) AR
7G AGN
NR 42 CK 158 35 0121 1605 =
UTU TUA 3U6 3A4 7T7 76T (Cont'd repeat message) AR
A HR 7G GA
NR 089 CK 20 35 0121 1654 =
UT5 TUA 3U6 3A4 TTA TTU TT3 773 353 75T
377 N3D 4TA 447 335 34U 446 4D6 3D3 AR AR
A HR UP SB WK

8073 kHz, 21-01, 1142 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 0072 CK 368 35 0121 1550 =
TUA 3U6 3AN 3U7 TAU 773 TA7 773 443 4T3 (Cont'd)

7553 kHz, 22-01, 0913 UTC

BNEC (x3) DE XSV70 (x2) V
HR MSG TOYR PSE CY
NR 065 CK 102 35 0122 1535
7A7 UT3 TUU 3U6 3A4 TT4 773 35A U46 (Cont'd)
MSG AGN
NR 065 CK 102 35 0122 1535
7A7 UT3 TUU 3U6 3A4 TT4 773 35A U46 353 (Cont'd)
A HR MSG GA
NR 066 CK 179 35 0122 1535
7A7 UT3 TUU 3U6 TT4 773 3AD 355 4UT N3D (Cont'd)
MSG AGN
NR 066 CK 179 35 0122 1535
7A7 UT3 TUU 3U6 TT4 773 3AD 355 4UT N3D (Cont'd)
A HR MSG GA
NR 064 CK 100 35 0122 0722

7A7 UT3 TUU 3U4 3A4 TT4 773 (Cont'd)
MSG AGN
NR 064 CK 100 35 0122 0722
7A7 UT3 TUU 3U4 3A4 TT4 773 (Cont'd)
ZNN SK

4243//9054 kHz, 22-01, 0852 UTC, i.p.

NR 0NS 8 CK 26 35 0122 1533 =
5TD UTT TUU 3U6 (Cont'd) AR
A HR MSG GA
NR 44 CK 133 35 0122 1536 =
UTU TUU 3U6 3A4 TTU 773 35A U4T (Cont'd) AR
A HR 7G GA
NR 092 CK 20 35 0122 1630 =
UT5 TUU 3U6 3A4 TTA TTU TT3 773 35U 4T
353 4UT 446 DA5 N34 445 4D6 3DU N3D 3DA AR AR
A HR UP SB WK AR AR AR

7553/9156 kHz, 23-01, 0915 UTC

BNEC (x3) DE XSV70 (x2) V
HR MSG TO YR PSE CY
NR 068 CK 94 35 0123 1553
7A7 UT3 TU3 3U6 3A4 TT4 773 35A U46 353 (Cont'd)
MSG AGN
NR 068 CK 94 35 0123 1553
7A7 UT3 TU3 3U6 3A4 TT4 773 35A U46 353 (Cont'd repeat message)
A HR MSG GA
NR 069 CK 181 35 0123 1553
7A7 UT3 TU3 3U6 TT4 773 3AD 353 4A7 445 (Cont'd)
MSG AGN
NR 069 CK 181 35 0123 1553
7A7 UT3 TU3 3U6 TT4 773 3AD 353 4A7 445 (Cont'd repeat message)
A HR MSG GA
NR 067 CK 105 35 0123 0711
7A7 UT3 TU3 3U4 3A4 TT4 773 35A U46 353 (Cont'd)
MSG AGN
NR 067 CK 105 35 0123 0711
7A7 UT3 TU3 3U4 3A4 TT4 773 35A U46 353 (Cont'd)
ZNN SK

4243//9054 kHz, 23-01, 0857 UTC

VV HR MSG TOYR PSE CY
NR 070 CK 17 35 0123 1531 =
5TD UTT TU3 3U6 3A4 356 4TA U7U N4A 434
3DA TTU TT3 773 446 3D3 4D6 AR
A HR MSG GA
NR 46 CK 129 35 0123 1605 =
UTU TU3 4U6 3A4 TTU 773 (Cont'd) AR
A HR MSG GA
NR 095 CK 15 35 0123 1622 =
UT5 TU3 3U6 3A4 TTA TTU TT3 773 35U DN7
353 4UT 445 4D6 3DA AR
A HR UP SB WK

4243//9054 kHz, 31-01, 1150 UTC

VV HR MSG TO YR PSE CY
NR 086 CK 29 35 0131 1518 =
5T. UTT T3A 3A6 7TA N44 3A4 35U N3D 353
4AA N3D 4TA U7U N4A 434 3DA N3D 446 3DU
TTU TT3 773 4.. 3DU N3D 447 3D4 4D6 AR

7G AGN
NR 086 CK 29 35 0131 1518 BT
5TD UTT T3A 3A6 7TA N44 3A4 35U N3D 353
4AA N3D 4TA U7U N4A 434 3DA N3. 446 3DU
TTU TT3 773 446 3DU N3D 447 3D4 4D6 AR
HR 7G GA
NR 62 CK 182 35 0131 1629 BT
UTU T3A 3U6 3A4 7TU 7.A 7T7 73U 7UT TTU 773 (Cont'd) AR
7G AGN
NR 62 CK 182 35 0131 1629 BT
UTU T3A 3U6 3A4 7TU 7TA 7T7 73U 7UT TTU 773 (Cont'd) AR
A HR 7G GA
NR 027 CK 23 35 0131 1632 BT
UT5 T3A 3U6 4A4 TTA TTU TT3 773 45. 35U
U4T 353 4AA 345 N3D 4TA 447 4.. 34U 446
4D6 3D3 N3D 3DU AR
7G AGN
NR 027 CK 23 35 0131 1632 =
UT5 T3A 3U6 TTA TTU TT3 773 (Cont'd) AR

4364//8073 kHz, 31-01, 1140 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 0110 CK 240 35 0131 1521 =
T3A 3U6 3TT 3U7 TTU 773 TA7 773 357 4TU (Cont'd)



UM10 - 10-minutes net

3207 kHz, 03-01, 1811 UTC OBCD
3115 kHz, 03-01, 1816 UTC L6YC //3860 UTC
3192 kHz, 04-01, 1742 UTC OBCD //3207 kHz
5880 kHz, 04-01, 0645 UTC 4DAG
3115 kHz, 05-01, 1418 UTC L6YC //3680 kHz
3115 kHz, 05-01, 2047 UTC L6YC //3680 kHz
3207 kHz, 05-01, 2047 UTC OBCD
3115 kHz, 05-01, 1821 UTC L6YC //3680 kHz
3860 kHz, 06-01, 1619 UTC L6YC
3860 kHz, 07-01, 1953 UTR L6YC
5880 kHz, 16-01, 0718 UTC 4DAG
5880 kHz, 17-01, 0715 UTC 4DAG //6782 kHz
3192 kHz, 20-01, 1010 UTC OBCD //3207 kHz
3207 kHz, 29-01, 1718 UTC OBCD
3860 kHz, 29-01, 1718 UTC L6YC //3115 kHz
3860 kHz, 29-01, 2119 UTC L6YC //3115 kHz

DIGITAL MODES



HM01 Dirección General de Inteligencia

Modes: AM voice and RDFT

HM01 oddities in January.

11435 kHz, 10-01, 1555-1645 UTC missing
11530 kHz, 10-01, 1655-1715 UTC missing
16180 kHz, 10-01, 2055-2115 UTC missing

11435 kHz, 08-01, 1603 UTC

Radio Habana Cuba in Spanish, then dead air till 1606 UTC, into HM01: 50103 50167 05006 51846 44111 58823

17480 kHz, 10-01, 2205 UTC

Abruptly (back) into groups after a false start of today's groups & data: 50105 30031 72231 51848 44112 58825

9065 kHz, 29-01, 0758 UTC

Short fragment of Radio Habana Cuba, then into 44213 53128 22161 62181 04084 60027



HM02

Modes:
FSK-19.8Bd/129Hz and FSK-CW

4761 kHz, 02-01, 0520 UTC

932 46 =
68055 80101 87012 47405 50884 24823 50236 16117 57623 02507
43607 45405 33372 16834 53313 36727 48731 84805 82686 38243
05821 61800 46536 27322 40366 06688 13644 87721 27256 84262
38262 04326 38586 26776 18204 67586 61304 60583 00423 03032
22208 71588 40818 48378 16555 34267 =
932 46 932 46 = repeats message = 932 46 000

4761 kHz, 03-01, 0520 UTC

247 49 =
68336 42480 47648 01712 53686 06355 50518 24732 20178 86554
75676 88020 57002 14046 05103 83420 42418 40487 14340 66851
14661 21372 56732 53714 86355 02623 02505 25577 58614 53576
16551 37146 42776 82363 36508 50436 71366 52811 33322 22582
20802 35338 22775 71342 44552 10060 87206 55055 54528 =
= 247 49 247 49 = repeats message = 000

4761 kHz, 04-01, 0520 UTC

535 48 =
64338 50490 78303 87093 64474 66713 57512 16321 13919 29524
63890 94284 77858 73811 31485 41825 74442 66834 43871 14023
25752 10616 39620 50151 44490 21953 91997 14019 64026 54857
54297 95778 92894 35927 42217 16390 78083 51169 34227 59548
84438 82035 51102 83448 37070 05840 56961 46339 =
= 535 48 535 48 = repeats message (no 000 sent)

4761 kHz, 05-01, 0520 UTC

951 41 =
27687 30547 88377 14662 33342 11420 02613 83878 02707 37142
86855 31584 36628 55818 61787 00702 55671 84427 85281 41427
80244 67471 81872 46458 17022 55612 10835 77611 78464 33048
84415 75678 22612 55867 53352 12761 61656 72526 35123 56258
03203
= 951 41 951 41 = repeats message = 951 41 00000

4761 kHz, 06-01, 0520 UTC

968 43 =
10770 78155 08811 17553 51473 34004 78471 48312 68413 14054
30072 14043 57813 41861 53155 83488 72461 04263 15250 37305
16137 72440 56083 70043 36658 33555 03360 38607 01166 08824
58125 11072 45820 10310 38700 81211 31001 25714 44024 67133
40335 56082 26382
= 968 43 968 43 = repeats message = 968 43 000

No transmissions on 7, 8 and 9 January.

4761 kHz, 10-01, 0520 UTC

344 47 =
10770 78155 08811 17553 51473 34004 78471 48312 68413 14054
30072 14043 57813 41861 53155 83488 72461 04263 15250 37305
16137 72440 56083 70043 36658 33555 03360 38607 01166 08824
58125 11072 45820 10310 38700 81211 31001 25714 44024 67133
40335 56082 26382 56783 54612 89023 56109
= 344 47 344 47 = repeats message = 344 47 000

No transmission on 11-01.

4761 kHz, 12-01, 0520 UTC

159 44 =
64002 15146 23227 37602 03367 34545 50311 17644 15126 23077
85317 88112 16235 28370 46138 52564 41141 04641 64111 71743
38457 57762 28106 84683 86537 87054 14848 63186 56853 13353
41747 24066 26628 33118 58176 11018 44274 21250 56238 27348
88321 64584 10676 00876
= 159 44 159 44 = repeats message = 159 44 000

Unreadable transmission on 13-01. Ends with 82272 76007 72646 = 915 47 000

No transmissions on 14, 15, 16 and 17 January.

4761 kHz, 18-01, 0520 UTC

927 43 =
58656 11821 53505 73554 34045 35081 43500 70302 25761 60006
16853 36461 28778 12318 23044 80205 21708 71555 51453 15567
44182 52676 42732 37040 46681 85464 67286 83537 82486 78121
00335 45104 61466 38353 56757 62150 36308 30436 64005 28254
54485 22488 00788
= 927 43 927 43 = repeats message 926 43 000

No transmissions on 19 and 20 January

4761 kHz, 21-01, 0520 UTC

257 42 =

03400 32973 77141 88604 28903 38525 51718 29205 37282 99365
66523 02876 11810 65819 01967 34035 82417 79434 61239 37686
99428 85995 62498 75153 57102 53424 65934 91852 62259 84490
86504 88735 43011 81254 43776 73680 01152 39353 34380 66667
42792 15139

= 257 42 257 42 = repeats message = 257 42 000

4761 kHz, 22-01, 0520 UTC

FSK intro, 3 mins pause

817 43 =

77304 47605 32502 14547 22854 66148 15872 70700 05372 02788
13156 32783 53718 51358 84262 22407 10085 64367 52318 06423
50154 86348 35600 73427 63308 23387 56005 73257 40775 67320
84304 05658 42547 71662 80824 22600 71545 78772 83483 33218
53718 51358 84262

= 817 43 817 43 = repeats message = 817 43 000

Note:

The message on Tue 10 Jan is the same as that sent on Fri 06 Jan - but with 4 additional groups added to the end. There were no transmissions on the days between these messages .

No transmission on 23 January

4761 kHz, 24-01, 0520 UTC

921 48 =

54427 28177 54544 30100 65112 74634 75638 27540 21627 17606
61204 12261 11362 66025 64243 03068 18874 68471 30416 55353
04257 13463 88142 08615 05064 27888 41771 27726 61563 20186
35533 41616 55840 70325 55385 63746 28146 16272 75560 76136
65446 51021 50787 36114 10420 82240 87121 41638

= 921 48 921 48 = repeats message = 921 48 000

4761 kHz, 25-01, 0520 UTC

307 41 =

37833 68734 87336 24418 06611 20062 90960 59378 89886 13669
61284 95565 76559 43055 54588 14852 25485 07524 37854 33857
69785 57398 84510 52680 06656 96735 33704 70771 87646 97841
27504 77447 63537 78682 29336 90313 07619 97772 09913 68619
79284

= 307 41 307 41 = repeats message = 307 41 000

4761 kHz, 26-01, 0520 UTC

462 44 =

37833 68734 87336 24418 06611 20062 90960 59378 89886 13669
61284 95565 76559 43055 54588 14852 25485 07524 37854 33857
69785 57398 84510 52680 06656 96735 33704 70771 87646 97841
27504 77447 63537 78682 29336 90313 07619 97772 09913 68619
79284 34891 45678 40561 =

462 44 462 44 = repeats message = 462 44 000

Note:

Same message as 25-01 with three additional groups.

No transmission on 27 January

4761 kHz, 28-01, 0520 UTC

975 47 =

28822 08572 84536 71532 62318 27054 51740 53067 81113 62411
10605 27103 68218 85512 16155 05764 73841 61852 45521 11217
86541 57041 07110 70341 30536 00676 53012 75026 65275 24618
47214 51628 44353 27213 57088 61654 13665 32411 01562 46580
24784 50026 16315 03270 07866 74431 21012

= 975 47 975 47 = repeats message = 975 47 000

No transmission on 29 January

4761 kHz, 30-01, 0520 UTC

807 42 =

26227 71071 36820 55841 81068 50806 76217 02771 63647 05054
44072 27755 12285 55670 38123 42777 55803 58625 23176 23735
45561 00476 85356 44486 33758 04374 77101 63521 03857 51467
27631 72346 04140 07348 47520 65751 01761 74026 18613 12413
21582 34333 =

807 42 807 42 = repeats message = 807 42 000

No transmission on 31 January

M42 & X06



Modes:

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

Russian Government & Intelligence



M42 – various modes

16156 kHz, 27-01, 1330 UTC

Op chat in CW:

QSA4 QR Q75 QBN K K

BK BK BK QRV K

Message in FSK 75/500

44991 03916 86005 09414 94290 98116 40747 27854 40540 51445
77077 54342 79082 84344 90847 11266 12559 38510 07992 90576
87131 51761 27637 13087 07714 27930 40313 63250 30636 93964
82190 04127 57198 61415 11299 02199 76532 34515 16646 16749
?25 32022 96197 33474 04121 15021 64629 47018 49768 37869
76809 22128 18924 64474 77938 88101 49559 17094 16287 46230
22813 49838 79469 94913 07322 64068 40191 02142 40367 07880
22401 80018 19272 26853 23797 41038 01495 58259 55617 40774
36852 85915 85646 36687 80300 97864 95393 17735 58732 14086
87354 84467 90201 76397 03323 84298 79043 17771 39663 31642
35294 53209 70498 67601 91876 59412 14746 38887 17972 35386
07939 00674 52021 61201 64764 73059 02793 97085 43271 05831

A list of M42b callsigns and frequencies, compiled by Benka. I will update the M42 database shortly.

2ÂNH 6JI1 7GZR
 BEMS BEZX BOPK BUHN BV6K
 Churm ChYRP
 DEPS DHUP d1Chs
 EBCW
 F8PW FILT FKLS FLJW
 G3WM G50P GDVA GENP GFAR GLJX GONU GTGV
 HDKR HL7D HXMT
 IK7R
 JOXQ JXEN
 K4MT KBAN KE4T KOGW KOLV
 L2RS L47D LEQR LGDF LKDW LM7K LOPR LQDF
 M8TK MAST MERG MI4A MJFQ MNBV MSAÖ
 NLAT NQOR NT9P
 OBRA OCFN OREN
 P6OZ P8RK PLXW PRAT PRBO PZAK
 RION RNSP RWKJ RZVY
 S3MF S9IZ SFDZ SK8I SN7D SNC4 SONG
 TC8D TI40 TKLI TZ9X TZBP
 UILG UL2G UOZG UTPR UW9M
 VBTW VGKE VGTR
 W7AD W9SP WDAK WPAD WS1C WVXZ WYGL
 Y4MY YDEW
 Z4NF ZE3Q ZE4K ZOLK

K4MT=PRAT (see log)

NT9P=LKDW

9050 kHz, 12-07-2016, 0501 UTC, CW. Handkeyed "NT9P eeeeeeeee LKDW DE PRAT QSA NO QSY 35176 K

Frequencies (cf) in kHz:

2678 2718 2821

3161 3171 3181 3191 3211 3212 3231 3254 3261 3261 3310 3356 3364 3544 3643 3653 3811 3817 3823
 3825 3838 3841 3869 3871 3879 3881

4012 4016 4019 4026 4028 4032 4035 4036 4044 4046 4052 4061 4241 4361 4440 4441 4455 4461 4467
 4502 4511 4521 4524 4538 4552 4554 4558 4561 4562 4592 4596 4618 4621 4628 4641 4691 4757 4765
 4768 4781 4792 4797 4816 4829 4847 4856 4871 4874 4946

5064 5065 5076 5078 5095 5100 5112 5114 5115 5128 5131 5158 5161 5164 5171 5220 5254 5268 5286
 5318 5332 5336 5342 5362 5371 5372 5376 5420 5421 5428 5451 5464 5469 5471 5738 5751 5762 5774
 5819 5821 5852 5857 5867 5876 5880 5897 5903 5946

6037 6300 6453 6463 6473 6623 6766 6767 6769 6771 6772 6776 6779 6780 6781 6784 6791 6803 6817
 6837 6855 6857 6867 6872 6874 6882 6884 6892 6907 6918 6925 6941 6956 6971 6987 6989 6992 6993

7341 7349 7395 7404 7414 7426 7491 7527 7612 7625 7651 7694 7708 7749 7751 7811 7891 7924 7978
 7983

8010 8037 8072 8121 8141 8151 8157 8160 8163 8181 8192 8288 8345 8463

9050 9052 9070 9090 9091 9092 9124 9135 9161 9184 9206 9227 9242 9300 9354 9453

10152 10153 10163 10177 10178 10180 10181 10352 10447 10510 10516 10550 10672 10672 10810 10824
 10951 10955

11137 11155 11423 11445 11453 11535 11627
12072 12089 12115 12121 12151 12176 12181 12189 12221
13371 13374 13410 13417 13441 13457 13518 13538 13631 13810 13850 13853 13892
14354 14358 14362 14381 14422 14428 14441 14456 14532 14534 14568 14637 14668 14681 14721 14789
14813 14876
15214 15612 15621
16120 16203 16321 16331
17505
18536
19119

Graham sent us his daily M42b logs. Thanks for that. Some of the messages are a bit garbled.

5112 kHz, 17-01, 0012 UTC, FSK 50/500

157 100 17 0757 0677
25637 76832 98065 89032 32165 78932 56432 74856 45378 43298
32768 32768 43765 45098 32675 23167 47238 45098 32768 21654
43678 45789 43768 67348 43768 80912 21809 21890 67218 26718
12678 43789 43809 65809 45789 57489 45779 75489 45789 54789
72615 21675 72389 78392 34890 48093 32678 47839 21675 28093 =50=
23789 37826 45890 54809 54809 45809 47589 54789 43768 67843
21890 80921 21098 09821 21789 21789 21789 27819 78921 21789
23789 34789 43678 67834 76843 65743 65423 23890 78932 98023
72368 32809 26157 41235 34512 67281 89021 98201 21654 89012
89021 12675 38940 43789 43678 43675 89043 23678 34809 45890 =100=
0017

5371 kHz, 18-01, 0012 UTC, FSK 50/500

481 100 18 0000 3453
59972 52685 68444 52836 44191 68852 10120 492-0 9UEY WIIWQ
TIYIU ORIUQ WPWET WOYYE YUEYP PPPPE RUQWT QEQOE EQEUY PQIOO
QUYUR YURO 27"1#44065 31888 69140 06763 14282 19582 13811
54233 22436 45431 7191 73643 98891 95630 1278 0556 83336
03977 38737 93474878/17)/08 64328 92191 04987 718&17/0 =50=
35431521655 42&7&297 18661 27286 41186 53060 577#7598
51839 9868 47278 82305 38213 88268 01186 00463 32359 35268
79622 9013DQWT PWTRP OWEY QYRTW WTRIO IOQQQ WWITR ETYIW
IIEPW PRPYQ EIIYO UUTOO OEQOI YQR W YEPOT RQQTU EPUEO EQYQW
TOQ EUTOQ UUYOO RYPTQ PPUR WEUIY QYPYT EQWIE TUPGY OPWWT =100=
0015

5112 kHz, 18-01, 0012 UTC, FSK 50/500

147 130 18 0000 2581
99468 97905 33626 94120 13801 41881 78236 04516 15977 87499
42425 58859 12747 56108 81599 47808 95339 80085 90984 63293
27597 66666 55300 50258 74884 46795 21393 27983 55097 04741
61761 13702 32582 82192 55056 78252 33601 93473 82762 14434
60167 96511 06688 77126 60858 29362 95223 91974 29089 06838 =50=
59056 98546 95117 53062 49367 26329 37065 87541 15859 52278
63799 73725 86584 08174 48023 99536 69950 02577 25375 99306
84706 09582 34329 52401 12662 35185 08178 99967 19361 31573
60646 89117 81890 68066 79518 86935 51517 11842 72653 62360
96149 94717 26099 92076 44000 59405 69375 29990 83882 79496 =100=
23026 07569 02860 50960 16596 86525 15029 64911 84590 56063
27986 68432 15929 90502 88649 89608 93503 48102 32936 84654
04468 46907 71033 59469 61376 97282 88637 49341 01426 79517
0018

Op chat in CW: CFM NL K. SK SK

5112 kHz, 20-01, 0010 UTC, CW: PLF3 PLF3 PLF3 DE KUWF KUWF K. R 567 0037 K
5371 kHz, 20-01, 0010 UTC, CW: KUWF DE PLF3

5112 kHz, 20-01, 0012 UTC, FSK 50/500

210 130 20 0000 3241
99468 97905 33626 94120 13801 41881 78236 04516 15977 87499
42425 58859 12747 56108 81599 47808 95339 80085 90984 63293
27597 66666 55300 50258 74884 46795 21393 27983 55097 04741
61761 13702 32582 82192 55056 78252 33601 93473 82762 14434
60167 96511 06688 77126 60858 29362 95223 91974 29089 06838 =50=
59056 98546 95117 53062 49367 26329 37065 87541 15859 52278
63799 73725 86584 08174 48023 99536 69950 02577 25375 99306
84706 09582 34329 52401 12662 35185 08178 99967 19361 31573
60646 89117 81890 68066 79518 86935 51517 11842 72653 62360
96149 94717 26099 92076 44000 59405 69375 29990 83882 79496 =100=
23026 07569 02860 50960 16596 86525 15029 64911 84590 56063
27986 68432 15929 90502 88649 89608 93503 48102 32936 84654
04468 46907 71033 59469 61376 97282 88637 49341 01426 79517
0019

5371 kHz, 20-01, 0034 UTC, FSK 50/500

567 100 20 0010 6921
KFVPQXXH AXQJFK.XX AJCQWSIP 3704 &W KT
QUWHG78991973 65640 75609 93636
33223 45433 45654 91956 04184 299
3875 43307 84449 85172
79608 23911 28535 29979 85521 42679 86167 10003 35100 95982
08050 11281 38767 47(60;23 28125 35873 91477 13700
73240 61367 70504 24901 50419 44214 20064 05553 42315 73?83 =50=
03576 41072 51270 87590730 22530 85662 20337 70117 19664
06399 53106 11497 62727 79981 69047 74304 28738 661;61
75083 16430 10643 08101 18938 51679 7667, 10053 18'.4 9121
5395692;62 1382 UUQU R LNWCYQTRRUYY YQOY I EYUSNWUO TWQO EIUUY
567 100 20 0010 6921;
;!12/4?

5112 kHz, 25-01, 0010 UTC, CW: NEK'A clg MJE1 VICE MJS1. Op chat: R 120 0015 K
5371 kHz, 25-01, 0010 UTC, CW: NEK'A (3X) DE MJS1 (2X) K OP CHAT R 149 0020 K

5371 kHz, 25-01, 0013 UTC, FSK 50/500 (garbled decode)

120 100 25 0000 2398

0 0 &64 26"10 48740 99671 41587 7001',67;14863226 36502 51150128 89102
56077 64386 93465 642)(080542 81808 86436 0406117;:87ROO Q/G&6 09262)97875 1688" 097&# &229;10 79996 30531
05003870907
274 85595 76485 23877 90290
72364 0:;6;2/810 5345315"58PTPUYU OTPOO RTQRY
VTVV
WQHU EGWIC ITYOY OUYUT EYPTU OOEQE QETQQ WYPYYIRXPYKXIIOPE UOTWP IETTU S EIT VWQ
PQOWIWZWETIHWGEA029 9-9
82424 32447 98413 9964 22847 93818 99231 96532 42286 67723
2672 RSFPBGIGJO IUREY PQTOT IAUITWD97 53112 0:87
8714&429 83911 6575 44075 38316 71587 97321 6"6&807 =100=
-0015

5112 kHz, 25-01, 0017 UTC, FSK 50/500

149 136 25 0000 0677
63527 35461 89564 43865 62534 48901 24356 24378 00925 34433
74659 03546 27118 45638 45639 00872 24322 35467 17645 45536
83544 35526 11764 00876 45633 45629 45637 46628 00916 56574
7467 45637 46219 56003 45637 56228 56440 60075 45622 17387
53627 58400 56721 56738 56108 56748 56738 29110 56390 35433 =50=
64738 56218 46738 45627 45680 45312 21534 56748 50387 56440
75849 56732 34551 26354 56784 56004 56387 56740 56110 56311
74533 56478 69003 45627 45611 45388 56719 56730 40921 45337
64738 45677 35299 47219 45638 56105 46739 58290 400 45175
75649 67219 56745 56773 45274 56106 56485 45637 38201 34521 =100=
65764 54637 36782 34251 23189 56748 56749 56739 56700 21154
65748 56129 45638 56195 46729 57210 59943 33923 24117 56834
74537 46621 48392 35217 56328 56732 24154 36678 45321 78309
65748 39920 45175 56473 38764 52175
-0020

5112 kHz, 27-01, 0010 UTC 4AI2 (3X) DE 47NO (2X) K. QTC 1 ZCZ ZVP SLD K R 737 0015 K
5371 kHz, 27-01, 0010 UTC 47NO (3X) DE 4AI2 (2X) K. QTC 1 ZCZ ZVP SLD K R 384 0018 K (2017Jan27) (GNL)

5371 kHz, 27-01, 0012 UTC, FSK 50/500

464646 464646 464646 464646
737 100 27 0000 4977
19420 65956 11437 27339 24449 93832
19420 65956
19420 65956
19420 65956 11437 27339 24449 93832 95439 49557 39072 72905
04179 36212 53918 87052 79196 36846 67274 10064 43734 72179
56895 52159 91621 05321 97682 06433 69048 51297 38092 31874
16385 50126 48562 52691 33152 69446 07437 90022 69035 58717
06041 30296 09354 36431 91094 56259 17741 19138 74931 38793 =50=
88400 86823 85059 26852 83678 72662 97037 23517 89416 43548
73350 10 78993 946559506 26992 96553 86736 02693 08765
24006 85494 68323 62247 04965 46425 16137 71210 89013 48582
20636 10574 20033 90433 42453 81131 58133 97544 96721 01377
63910 41186 43477 07453 07299 30279 95208 35965 63020 74730 =100=
-0015

5112 kHz, 27-01, 0018 UTC, FSK 50/500

384 100 27 0000 6483
31873 33968 40607 39189 03485 04315 44644 27916 78630 38168
37277 97220 78552 99981 77132 39045 07247 23647 73520 73093
36262 49165 86531 25689 45499 49240 77693 85411 00053 19897
93535 49494 46328 93354 57652 18397 10385 82523 18060 85513
28085 50381 31269 94448 75672 87961 28138 78828 25061 95550 =50=
33712 92210 33868 63676 79377 58204 46729 93314 36035 80079
84021 77119 58722 74527 26621 30137 22324 41163 23108 37201
14996 12946 87029 48174 69099 84824 03995 72787 57459 59788
4484"09&7260959 64243 11077 12801 74770 1606 26641 80626
93810 5)452 52951 18068 60554 83565 15096 26062 34629083781 =100=
-0018

5112 kHz, 28-01, 0010 UTC, CW I5'AJ OP CHAT R 145 0017 K. NIL SK SK
5371 kHz, 28-01, 0010 UTC, CW BJ9U (3X) DE I5'AJ (2X) K. R 146 0114 K NIL SK

5112 kHz, 28-01, 0011 UTC, FSK 50/500

146 167 28 0001 0776
33354 65759 13367 61316 21863 85349 87532 99965 89026 90923
55433 93157 03756 16515 29423 21536 88143 64679 60455 06477
90734 28681 28253 53941 02147 86325 11707 22702 84101 48452
77601 39963 69549 46416 61074 33278 65525 85693 06372 21864
63782 11658 63547 34494 81238 45144 70950 36194 18792 52693 =50=
29542 30074 64679 60870 21810 28280 71127 48065 62939 19999
13216 23564 73588 42640 11226 33752 66780 42310 78446 21107
11063 69744 12393 35786 88444 28558 59957 44830 35486 71171
75931 47995 74682 34618 66504 10727 91486 52564 25083 41705
78121 83357 26085 85961 58687 12005 58590 67612 53961 66672 =100=
95153 06507 28787 76658 81199 57537 03238 53725 45515 20188
99130 08073 79612 78540 30783 23541 35248 56876 44507 89555
58559 09285 51188 15622 26888 56003 57232 35253 90700 54536
96474 42244 72215 64009 60230 20603 49987 55199 69100 86517
67780 91283 52271 14634 71511 51702 69157 37055 31788 09462 =150=
06559 61063 52260 20725 28696 60538 03659 52080 53289 22994
53435 02785 78845 91719 77427 46958
-0013

5371 kHz,28-01, 0015 UTC, FSK 50/500

145 100 28 0000 7867
50159 70628 95027 28177 97988 98052 02437 30015 80004 75314
20130 04822 02458 40842 54275 75228 66009 12694 82827 86770
94542 23965 74394 40602 28431 11900 02576 91987 65114 85766
91436 76976 09076 68776 65376 97264 07540 12801 52071 64953
51100 70816 41498 62252 32739 01506 97928 99893 63604 49664 =50=
19804 90550 16028 84983 44917 57624 25505 29776 81203 28746
38049 79751 37809 52132 73323 86160 91915 09496 82465 34747
14048 33461 55466 96756 43002 53850 56673 40808 15351 14011
85785 16091 24901 44325 13260 69680 86754 46055 39150 49674
30966 04582 86853 40177 80897 83972 50248 06265 66341 71308 =100=
-0017

5112 kHz, 30-01, 0010 UTC, CW FMG9 R 877 0015 K
5371 kHz, 30-01, 0010 UTC, CW NGE4 R 473 0012 K
5112 kHz, 30-01, 0011 UTC, FSK 50/500 473 100 30 0000 4334. Did not send a message, but NGE4 confirms receipt
5371 kHz, 30-01, 0013 UTC, FSK 50/500 877 100 30 0000 4554. Did not send a message, but FMG9 confirms receipt
5112 kHz, 31-01, 0010 UTC, CW OKJI (3X) DE 7YaJH (2X) K
4461 kHz, 31-01, 0551 UTC, FSK 50/500 PZAK wkg PLXW
5555 kHz, 31-01, 0620 UTC, FSK 50/500 NO4K: 666104 31 0610 6660.. (=50= separator)
6925 kHz, 31-01, 0646 UTC, FSK 50/500 i.p. (QSX 7397)

15621 kHz, 31-01, 0759 UTC, FSK 50/500 FE3C wkg N1ZE
11553 kHz, 31-01, 0821 UTC, FSK 50/500 JONP wkg NWLM
14713 kHz, 31-01, 0840 UTC, FSK 50/500 i.p.
6875 kHz, 31-01, 1010 UTC, FSK 50/500 i.p. (=50= separator. Incorrect shift: 475Hz
7811 kHz, 31-01, 1026 UTC, FSK 50/500 QSX 8157 (31-Jan-17) (Benka)
9353 kHz, 31-01, 1103 UTC, FSK 50/500 i.p.
10180 kHz, 31-01, 1235 UTC, FSK 50/500 Msg (=50= separator). Op chat in CW: nil sk
11553 kHz, 31-01, 0821 UTC, FSK 50/500 JONP wkg NWLM

M42c (F01) – FSK 200/500

17411/15956 kHz, 06-01, 2230/2240 UTC: Link ID 00116, Date 6th, Serial #1, Groups 157

11177 00116 49138 06001 01579
75654 22172 41657 85927 36479 72216 30215 65003 46602 58950
60837 82105 85507 38230 77769 11908 98803 70692 17797 62715
88456 56848 83875 24505 73272 13494 19574 12216 20229 74356
14031 27798 10760 10251 97131 20687 49244 59128 96064 09454
66399 52130 99134 58573 38955 38603 36187 05110 30045 42499
94981 63933 46156 17229 28124 78637 72372 53768 13640 35850
99802 49012 00639 08387 31005 03180 17910 35948 46929 03033
79499 19420 65956 11437 27339 24449 93832 95439 49557 39072
72905 04179 36212 53918 87052 79196 36846 67274 10064 43734
72179 56895 52159 91621 05321 97682 06433 69048 51297 38092
31874 16385 50126 48562 52691 33152 69446 07437 90022 69035
58717 06041 30296 09354 36431 91094 56259 17741 19138 74931
38793 88400 86823 85059 26852 83678 72662 97037 23517 89416
43548 73350 14570 78993 94645 55606 26992 96553 86736 02693
08765 24006 85494 68323 62247 04965 46425 16137 71210 89013
48582 20636 10574 20033 90433 01155 00000

17411/15956 kHz, 13-01, 2230/2240 UTC: Link ID 00116, Date 13th, Serial #2, Groups 145

11177 00116 31278 13002 01459
06155 47656 93745 25474 43078 68843 14920 68926 64950 48717
27226 10615 94909 17711 59776 73656 39481 29390 88509 63856
11598 48103 04444 76317 59621 78574 18597 53883 18964 33386
04888 97764 30309 25405 94692 24775 48128 93680 21051 10850
64625 86284 72406 29908 13110 34039 19693 38056 64004 62675
69872 82996 02761 32159 91491 07587 04804 29610 42220 55290
28380 40919 62544 99360 50294 35174 31469 42264 12889 28886
83833 38047 68906 87903 33732 65265 87960 41048 70862 47939
28301 78915 49257 49945 93570 81997 82534 90201 96212 07311
90567 74064 74858 26066 46289 60701 01377 26452 02909 94510
37886 04676 09759 78533 83793 78741 90988 58437 13809 79932
43712 20217 51741 71117 04085 16621 96480 81022 97564 63797
49170 60853 94154 15549 83852 22703 46363 34439 72589 02476
57133 38510 87635 08041 13593 41508 35659 90763 76150 65081
22691 04274 03280 02143 00000

17471/14421 kHz, 18-01, 0000/0100 UTC: Serial #14, Groups 245

45477 57506 84779 57499 31415 20276 24487 87581 50782 18036
98671 89226 31661 80919 81603 26829 36240 95913 63467 02558
06581 04461 82118 33883 46037 78284 45952 86683 78500 84371
02574 37342 52663 75054 32959 62297 83498 64130 75788 78459
48120 74944 11645 82957 78240 71399 61762 65630 16384 07795
81013 92710 28066 58461 49822 85139 87114 13118 94689 39950
76322 48887 92021 68149 70619 14908 34943 47543 94951 90479
67788 13944 74059 02690 17958 39190 16329 14441 79820 69421
98917 18829 30360 22046 46342 00809 81240 64834 19702 52081
96990 25585 58737 50137 33988 05786 43911 37403 79928 96721
70695 61421 98472 21465 53245 62000 08761 51172 99671 16280

54468 69146 26065 77636 42111 81078 01486 69384 53266 94928
41101 19187 60411 18869 89649 45140 01068 50726 62422 29444
89924 57378 35959 40615 73640 67513 05637 90169 58016 26218
52331 34717 62207 84813 85361 59401 79682 24387 53883 03627
50603 36445 43927 15009 75320 09144 03274 42478 23669 92511
61342 04495 19752 41122 36290 93282 06902 57643 46504 01052
22499 85699 68678 79115 37350 25492 09658 65868 39301 70609
84235 44541 65769 89468 16107 16682 14899 99816 04141 02295
90011 09742 21179 02581 57047 23626 37543 86209 19680 36473
86431 85065 41796 65055 13400 10402 72024 89314 77114 25347
50008 02451 93556 34693 99093 93148 40880 77905 35140 08355
67090 36296 46127 70079 67749 90292 22255 44621 25889 87742
41211 87679 31314 09190 38307 13784 21492 41061 16170 63475
11206 92706 73657 66675 03173 14245 00000

17471/14421 kHz, 20-01, 0000/0100 UTC: Link ID 00116, Date 20th, Serial #3, Groups 164

11177 00116 79236 20003 01649
10251 97131 20687 49244 59128 96064 09454 66399 52130 99134
58573 38955 38603 36187 05110 30045 42499 94981 63933 46156
17229 28124 78637 72372 53768 13640 35850 99802 49012 00639
08387 31005 03180 17910 35948 46929 03033 79499 19420 65956
11437 27339 24449 93832 95439 49557 39072 72905 04179 36212
53918 87052 79196 36846 67274 10064 43734 72179 56895 52159
91621 05321 97682 06433 69048 51297 38092 31874 16385 50126
48562 52691 33152 69446 07437 90022 69035 58717 06041 30296
09354 36431 91094 56259 17741 19138 74931 38793 88400 86823
85059 26852 83678 72662 97037 23517 89416 43548 73350 14570
78993 94645 55606 26992 96553 86736 02693 08765 24006 85494
68323 62247 04965 46425 16137 71210 89013 48582 20636 10574
20033 90433 42453 81131 58133 97544 96721 01377 63910 41186
43477 07453 07299 30279 95208 35965 63020 74730 16757 88907
80310 36732 21533 82858 08693 37437 13964 20295 74649 12318
13892 45100 13300 02224 79854 78600 64375 81093 02643 86708
19816 48501 03162 00000

17471/14421 kHz, 27-01, 0000/0100 UTC: Link ID 00116, Date 27th, Serial #4, Groups 186

11177 00116 19375 27004 01869
41912 68218 24090 82530 85486 29031 70463 83116 13215 41704
70138 95891 97365 64075 60993 63633 22345 43345 65491 95604
18429 98353 87543 30784 44985 17279 60823 91128 53529 97985
52142 67986 16710 00335 10095 98208 05011 28138 76747 76012
54253 96328 12535 87391 47713 70073 24061 36770 50424 90150
41944 21420 06405 55342 31573 98303 57641 07251 27087 53289
73022 53085 66220 33770 11719 66406 39953 10611 49762 72779
98169 04774 30428 73866 10686 08875 08316 43010 64308 10118
93851 67976 67410 05308 49491 20153 95692 06213 88231 25758
71740 86224 63143 54976 46661 98683 66730 74826 28952 21938
77655 74363 92968 15299 04799 24019 10975 47905 29937 74416
41033 15748 65854 32152 67183 05769 50056 37321 29826 28843
02232 55854 70696 25567 80662 50056 38163 31118 50912 74720
42030 40055 70386 91005 85796 96288 43268 21836 50818 50170
67767 55386 42969 99292 04485 45752 74260 92740 38447 53872
27966 42147 63380 39233 46481 16693 13309 16340 00460 41984
52192 42803 43673 78002 22568 52270 62493 75778 01180 55077
39906 07826 10050 34702 52570 64761 41043 86198 90805 05086
25092 17806 95721 32761 04184 00000

17416 kHz, 16-01, 1604 UTC

Header: 11100 00125 28465 16002 10969

Link 00000

Link 16404 / 16405

10856/8174/6988 kHz, 03-01, 1500/1510/1520 UTC

Link ID 16404, Null message

10856/8174/6988 kHz, 10-01, 1500/1510/1520 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 16404 : 10th of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4

17896 00000 00000 03197 55396 36567 00893 25925

20735/18037/16250 kHz, 11-01/12-01, 0900/0910/0920 UTC

Block No 0 : Total Message Size 28 blocks : This transmission contains one message.

7f,12,b0,e6,00,00,00,00,30,00,60,00,10,00,00,00,00,01,20,0e,00,06,00,09,10,00,70,09,e0,04,50,07,90,09,30,07

Block No 1 : Link ID 16405 : 11th of month : Msg Number 020 : Msg Type 07145 : Group Count (?) 180

05220 19810 64683 33228 05092 02723 58127 06658

1be94015114646e140b4e

be4d 6288 f0cf d7ab 9570 a6a2 61c6 ab48 c627 5802
8d59 192b f6e4 616b 54e6 fbdd 8cc6 88f6 d1bf 6c7d
4822 c52d fb30 1843 b205 6c3f 8063 872a 7f92 1ba2
b559 be00 99e5 5c18 3066 10d6 74f8 db08 2d57 2715
cef3 9158 6997 3146 7879 7fc7 caab 389b 4698 4416
c659 6c6c ac16 d5b4 e4a0 9907 6356 5eeb 5873 aea5
0b1d 5d2e 9466 0cdd bc30 70cd e5c6 6e45 b96d b16f
2b6c 25db d395 6f98 ea10 8c77 6b65 1633 7d08 ceb4
eb0e 20ec 3450 d67f beee c640 c970 04d6 649f 077c
c798 f169 6b65 4f3c 81ba 291f 8263 75f5 00bb 3f29
8630 2fb4 3772 3273 3087 8a41 40bc 8d82 c211 188a
387f 243f e4ad 784d f96e 5f06 87cf a255 c0e7 babd
901d 0c29 aea8 c322 e61c b29c 8a24 1877 6a6b 9a99
0c36 9da0 ca0b 82a7 c531 2a05 907d 587e 1671 28fa
5992 fda3 7336 7624 b8f9 8c53 7951 c667 1d13 bbc8
6e80 b3a5 553a 70b6 39ff 757a 2959 3113 a42e 1da0
31c6 486c 2885 4c15 bb48 9812 d7b2 7cdd 3e40 d618
2547 0dcf 5ba2 decd 423a 47ac 1828 05f4 51c3 0000

10856/8174/6988 kHz, 17-01, 1500/1510/1520 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,18,00,00,00,00,0c,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 16404 : 17th of month : Msg Number 122 : Msg Type 07145 : Group Count (?) 4

64404 00000 00000 02889 55396 35920 00893 44267

10856/8174/6988 kHz, 24-01, 1500/1510/1520 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 16404 : 24th of month : Msg Number 145 : Msg Type 07145 : Group Count (?) 4

64404 00000 00000 03260 55396 03854 00893 50045

20735/18037/16250 kHz, 25-01/26-01, 0900/0910/0920 UTC

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

7d,12,b0,e6,00,00,00,00,40,00,20,00,10,00,00,00,00,03,20,07,00,09,00,08,50,0c,a0,00,d0,0f,e0,06,20,0f,40,0b

Block No 1 : Link ID 16405 : 24th of month : Msg Number 022 : Msg Type 07145 : Group Count (?) 222

40248 21890 32068 33267 11934 32966 05600 52616

Link ID 16405, Date 24th, Serial #9, Groups 222

1be9401529d38f0168dee

4155 8288 c8cf d025 fd41 28a2 5b86 aa1c e066 c102
2959 07e7 faa9 a35e 0758 62ea 04e0 9ad8 91a4 78ee
3f84 74f6 2680 3e90 d726 c001 2302 29ea d563 c7f4
bc74 2b22 524e 4a0b e56b 7b1b 1e85 0b1f 7fc5 dc11
80ac b7c9 1ded b616 63f4 b7b8 475e f926 55af 2a76
bfd2 14d2 7b29 56c3 4f66 326f cd18 a33b 6858 8e45
8418 5708 383a 2e02 50b2 9bef 3f57 f169 e469 3798
684e 2906 907a 7a47 4c9e 980d b231 39f4 11ed 8d09
f584 5e82 54c0 ff5c 2b19 924b 4b7e 3765 87e9 1b1a
ed69 eca3 cfd8 175f 6955 c655 88f6 3405 bd65 e13c
2449 ce3f d8c6 e6ae 5a7d 6da5 1e16 c086 1456 Ofac
c8d4 f09d 6c3b f30c 7fe4 bd04 8ef2 7c52 ec82 9e2b
6525 ce1a ae65 c965 1f9c 096f 41ef d260 e85d a483
e0d3 2ead 521d 767b e0ab 24df 9dc6 4247 8ca8 7b46
4486 a067 cf17 7d2b 2038 6cfc f138 ae65 7ca9 02a4
4449 fcc1 3009 86c6 5be2 129c 8d9f 71be 94dc c0ef
bb9e 047c 9eed e569 96d3 dd7b f44d 74cd d65a a937
7929 01fc f413 d1b6 2b0a f0aa e024 108a dd8e e536
0654 efc5 a079 a9c7 b32f 9a37 970a 2aa5 4366 add5
bf31 f4a0 78a3 7e57 f601 98f5 4863 9a47 63cc 0328
d1c1 20a7 a041 f45c 3800 35da aab9 510b 8fca ba2e
0723 714c b857 9496 e363 92de 92f6 0aec 91bb 28d0
6800 0000

10856/8174/6988 kHz, 31-01, 1500/1510/1520 UTC

Block No 0 : Total Message Size 20 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,20,00,60,00,10,00,00,00,00,09,20,00,00,07,00,09,90,02,a0,07,90,05,20,01,40,0a,70,05

Block No 1 : Link ID 16404 : 30th of month : Msg Number 047 : Msg Type 07145 : Group Count (?) 118

32769 05720 16756 12586 51160 35519 43099 63845

Link ID 16404, Date 30th, Serial #19, Groups 118

1be94014c80012c2f876f

4a16 583b b967 ea8c 3ae2 c3cc 899d 4875 907a f341
cea4 fb33 e2ac 4d13 d414 8fdd b958 3ec9 e838 13e7
9bdf 83e3 89b7 4766 135f 28b7 7271 bbd9 7fa3 e9c5
2512 1197 1b49 4074 0972 389b 1ffa d100 13b9 3a20
2b8a 391a 0ed2 66af 5391 9614 397a 5370 0649 2e51
9530 7b15 27ae 04b0 6ab4 7c24 4653 fc14 90ff 10d3
00f9 6987 190e bd67 09ea 8e10 f02c 729a b07a c780
2f55 0b3e c237 142f 7df6 e6ec 543d 2526 6ba0 6344
c745 4153 80e1 7b10 c7ed a127 1325 769f 18ed 3fd7
772a c2b3 7224 01e8 5d55 8b24 3ad2 d19a 6606 c887
e111 5ee9 7259 7cbb 0a08 77cf 6e02 a1bd 3672 26ab
6f9c 5435 26c6 2dc8 4b5e 14b9 1280 0000

Link 20492

20735/18037/16250 kHz, 11-01/12-01, 0900/0910/0920 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20492 : 11th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

47328 00000 00000 03751 31284 36704 00893 28984

20735/18037/16250 kHz, 25-01, 0900/0910/0920 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20492 : 25th of month : Msg Number 065 : Msg Type 07145 : Group Count (?) 4

23380 00000 00000 00745 28441 01376 00893 64917

Link 20501

10378/9169/7419 kHz, 01-01, 1530/1540/1550 UTC

10383kHz 1650z 03/01 [Link ID 20501, Null message] Danix TUE

9046kHz 1700z 03/01 [Link ID 20501, Null message] Danix TUE

7313kHz 1710z 03/01 [Link ID 20501, Null message] Danix TUE

7313 03-01-2017 1710 M42d FSK 200/1000 (MPJ)

Msg no 002/3rd Type 07145 on Link ID 20501: 39180

00000 00000 03109 12857 35127 00893 40655

10378/9169/7419 kHz, 08-01, 1530/1540/1550 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 8th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

51652 00000 00000 00443 21447 36315 00893 11319

Test run heard at 1520-1521z on 10378 kHz; contents: '46464646' in 8-bit ASCII

10378/9169/7419 kHz, 10-01, 1530/1540/1550 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 10th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 00852 12857 35946 00893 11281

10378/9169/7419 kHz, 15-01, 1530/1540/1550 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 15th of month : Msg Number 150 : Msg Type 07145 : Group Count (?) 4

58804 00000 00000 00651 12857 02814 00893 20261

10383/9046/7313 kHz, 17-01, 1650/1700/1710 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 17th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

01476 00000 00000 03766 26517 33237 00893 51810

10378 kHz, 22-01, 1520/1521 UTC: 4646464646464646

10378/9169/7419 kHz, 22-01, 1530/1540/1550 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 22nd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 03789 12857 34943 00893 20548

10383/9046/7313 kHz, 24-01, 1650/1700/1710 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 20501 : 24th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
01476 00000 00000 01091 26517 32771 00893 38909

10378/9169/7419 kHz, 29-01, 1530/1540/1550 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 20501 : 29th of month : Msg Number 152 : Msg Type 07145 : Group Count (?) 4
22333 00000 00000 00708 16418 34785 00893 27040

10383/9046/7313 kHz, 31-01/01-02, 1650/1700/1710 UTC

Block No 0 : Total Message Size 18 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,20,00,20,00,10,00,00,00,00,00,20,0b,00,0c,00,0b,d0,0e,00,0f,30,0f,c0,0e,60,0a,50,00
Block No 1 : Link ID 20501 : 30th of month : Msg Number 160 : Msg Type 07145 : Group Count (?) 104
03949 18680 23843 13216 21447 00355 54653 39475

Link ID 20501, Date 30th, Serial #64, Groups 104
1be9501550f6d2ca0068e
3d48 f838 82e3 9029 1e87 ada1 4ded bdf9 c6d2 571e
ac7e 393c 0ee8 53d1 d287 8b4d 7053 4c86 63b6 912b
dbd5 abc6 1fc4 6e8c b39c 5a27 eb9e 6bf8 7adc 1f9b
51a7 19d5 337c f212 b833 b7c9 3577 d5a6 7d54 c383
7fa8 f65c 6d1b d98a 0528 644a d8d6 023a 0818 1054
52e9 cde5 a5e6 a25b b9b4 3d2c 5de2 b93e 7c1d 2be8
e31b 6a36 207d fd50 e36c 6579 1252 e743 9607 c020
26e2 26d9 b249 f889 cbdb 6986 d404 4a76 7625 a0a2
d26d 00e5 98a8 fec1 2bb6 463c 7d31 2ee3 f36e 1929
031d 7546 4c39 54ea 3e61 333b eb16 df29 ab93 7fea
9853 8681 0500 0000

Link 32816/32817

20154/18304/16156 kHz, 11-01/12-01, 0600/0610/0620 UTC

Link ID 32817, Date 7th, Serial #2, Groups 469

1be980311d9dc46051d5e
cbb5 1944 da9e a6f9 2160 2e91 ba29 4664 07e7 466b
8cea 4c1a c814 2721 0aa3 1a8f 99a2 8e6a 20f6 8155
1365 0e57 257f 89d1 a63b c91f 01d4 abce 1fd8 ac4a
028f 5a51 181a 2905 0f1d 8746 5deb fc57 a2a2 7838
34c5 9330 6d94 bc27 8a5b acd7 2815 f49a 2025 4220
eb0c c0f4 395d 6f9f f4c2 9d86 95bf 1dad 4667 aaba
29c7 a130 4657 3145 d7fd b9c7 72d4 2df8 9dd2 8bd4
38fe f234 f2bd 082e 1a83 3140 dd0d 4f16 1409 b98c
2acb 8b72 8de6 04ae 3dba 5620 d92b eca8 69b2 3a9a
b70a d4be 3831 209d 7635 ec5f 3508 1629 ad3d ad73
f766 8f0c 107c 0d0c cab4 bc87 0693 86d3 f276 30cb
b870 eb7c c7af 7164 d86b 5300 5f52 1fad 0209 9ebf
34e3 dbe3 231b 1821 f254 d178 8901 7267 c493 0fdf
dce7 5276 aac1 1468 4663 66a9 e9f6 7bb6 b923 3e02
77c5 9107 44e2 ef06 d9c3 262e 9656 e3c0 356c 59db
64f8 606e 6530 5c05 6e88 27d0 fded 659c 8e76 3b69
6372 741d 6330 e925 54dc 7549 53e6 9e5f 34e1 557a
98f3 d3c4 230e edd0 6d4f 1cc9 8ae9 4b4f a0b5 dcc5
84bb 2e94 4b3f 3406 787b 617c 5b13 03bd 56a0 61ef
4279 7112 9c53 0665 0892 bf62 103c bf40 b69c c5a5
b412 3cd2 3b4e 771f 666f 22b0 37e0 95c5 c34a 89ee
8d39 d5dd aa38 c916 0261 c09a 4a87 11c3 687f 439d

5eba c55a 1a84 9405 a078 4318 74bd 6b76 ac3c f154
48d3 d017 63e5 05a2 b206 b42f 6bf1 1df4 bd40 55d5
55f0 51a4 b404 7c66 3356 388a f0d1 6bd3 0b20 58bb
c868 fc21 0f0a c7aa e0e1 99b5 381f d4b0 3e96 0cd8
bf2a 1977 3ee4 7f13 84e5 f642 ba0b 919f 5464 d49b
2f6f c50f 69e5 47f2 0158 35e8 64ad 2f3e 29ab ef6b
9d21 6b89 e364 74c7 c385 e4a5 ce6c c96e e0c3 755e
1d8a 47b1 721f 16ab 4691 2775 f24a 3d84 87b4 0f1c
7943 dcaf 7469 f0ba 35b9 d330 01e0 40eb e763 706a
2348 e195 7c87 5231 c66a 73dc 9e78 70b9 b2ac 1f30
3165 27d4 0e76 5b7b 18a0 0000

16174/14855/12214 kHz, 21-01/22-01, 1100/1110/1120 UTC

Block No 0 : Total Message Size 54 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,60,00,a0,00,10,00,00,00,00,01,20,0c,00,0d,00,0c,10,07,50,0a,b0,00,a0,07,c0,04,d0,08

Block No 1 : Link ID 36882 : 20th of month : Msg Number 200 : Msg Type 07145 : Group Count (?) 108

52844 48440 57948 36938 43092 05070 23101 36689

Link ID 36882, Date 20th, Serial #80, Groups 364

1be99012ace6cc8c816ce

c5bd 3890 8835 0326 89f0 194f e97a 85fb a081 237a
1a39 0bfb f329 7a63 83bb 64cc 6d54 92af 68ac f080
f49d 2268 55d0 ecc5 648a a4f1 27d8 7ac7 02cf a10f
e3bc 5da7 22d4 2f62 1990 c2e1 5a93 284f 0755 2a93
e9de 9f0d ad5e 18e4 6b08 b51c 18fb e256 930e 3dd3
5c46 2eb2 ba4b 9f77 fd13 1453 c04c c07d f83f a8c1
2f19 cdd9 407d 4209 57d3 272a 9279 0e5e a6ba 7244
9246 b96f a40c b2fe 6b18 a7cb 9d7f cd52 853e 8b0b
355d 1b4b 4442 bdfd 96af f63e 2f2e 4935 387c 5d73
7a7d 8816 73e6 212e dc0b 5c9e 88ad d0f7 759d 057b
179b 5c63 a5a4 6e4a 6b55 948e a256 0d9d 7147 536a
c306 9eb0 0544 07a4 480f 6413 606b 8665 8ade 75fe
b376 80a9 dfa4 8078 9866 3b26 194c 5dc0 1bd1 dc39
ca34 66aa 0456 def8 c775 37af 03f0 4810 e9b3 7aab
d4f5 29a9 0fa5 cb62 ecd5 82a5 9159 1b59 72a9 5b2c
9ff8 bc17 9f50 6955 8918 c6a8 b450 42ab 13d7 2584
26dd a745 caf4 2f2d 7af8 bcaf e0af 5bdb 6f40 f22a
3290 4be2 ffcc e3d4 31bb 4e88 c2d6 38b7 3291 174d
f1eb 2a9d 0b5c c3a1 0088 6113 8833 804c 866b 0c19
0fd7 4074 5868 90f4 6576 26be 39b3 b9c9 84ae fdf1
6d14 d37f 4c21 ede3 0517 805f b456 6d2c 5db9 2649
9f0c 16e3 30bc 9dbb 876c d52d 5ead e467 14a6 fc25
4477 01b4 92e8 1a35 8377 94a7 2d9d bcb2 6344 d104
72ed 7ae4 2374 618a 051b be62 ef2b 4453 d56a 2808
9d44 6007 7b49 66a5 11a9 0bc3 0b3b 2dbe d55f 1d40
f8c0 3550 a650 3c27 d7ab 0489 7899 7b7b 594a f684
8330 e2f5 02ec 30ae d0c0 0e49 c5a0 8dc2 4e1b 3b1a
4b53 c226 d6de d12d 7e4b a591 4208 daa4 dd92 d110
a7d7 1eb7 03d7 8b9d 714f 931a 3dd4 42b5 320a 8d11
2325 3205 a4c4 c4b2 572a 9dba b16d d6fa 8471 138c
1d1a 0e9c d7b3 7efb 2a04 5d09 9797 a011 6d19 bc84
a6a4 024e 624b 6454 0d7f c581 bc9e 8578 0ef9 59c0
b3e1 4f77 26bc 9ec3 8f34 da9b dd77 1e6d 87e3 188c
6060 a4bd 19ef 0dcc 09a0 2ceb 494e dd92 0497 21f7
cc52 9348 7997 5ad9 9631 4b96 38eb 0b2e c025 6410
9908 112e d5e7 0abc 0f6b e6cc f71f 7e92 34e1 613d
a97d bbe0 90c8 0000

Link 41018

16321/14881 kHz, 18-01, 0200/0300 UTC

Link ID 41018, Date 18th, Serial #8, Groups 245

1be9a03a58000b4140f5e

7f05 9949 fba4 cd0f 17f9 133e 9c6c 6603 1c81 d32e
0909 d9b8 a021 f6da 7ec1 171a e0e1 432f cc76 e413
0f77 3066 b636 ed9f 876a 6a58 8031 12e9 1d40 e51d
b2eb 97b6 09d6 a86f 2f11 ecea a36f a5ff d057 b499
8789 67b2 d7c5 7296 c7dd 8796 dd68 027a 3b32 340d
0b47 dd0c 13ed 3122 0ad9 87a0 0c0d fe50 67e7 9288
7299 f7f4 3013 da0c a22c bd8d 51ee 11e3 4478 777a
0d15 577c 04aa d42b 0769 78a2 78ea 16f5 67e6 073d
3761 fa83 844a 9d35 4d1d 6977 9463 d566 a413 6999
5968 c4e6 85e5 3303 b034 818f 11f5 c4ea 4a3c 4ef9
6532 f95c af64 172c ccc2 b19d 8787 8230 5846 c2c8
5003 5cc0 d517 28fc a53c ce39 5c77 a6af 446b f74f
a83c 32ba e42d b62e c82b b4fe 7a92 b30f 1f2f 84b9
c6a5 1400 fbc4 0fb0 f5d8 c577 12f9 4edb c361 3b87
37d5 8b3a c503 9fcd 56a0 1226 3376 b0a5 7f10 f3b5
ee59 4f1d 5a51 3c31 6878 00a9 4854 49c8 a16e 83a3
45a7 4650 7c00 a687 49bb 1710 9233 9562 f921 1896
c9b4 7be9 8569 e2d5 f1bb b008 ed33 0e48 22d6 1413
be1d 17c1 6ce4 a9c3 7719 7c79 a9dc af44 1feb f1ce
1656 f941 2841 486e cf83 9b2a 37cd e6bf a574 85c3
152c 5e4f 1f32 18e1 7c1a 3a2a 7d7c f28e 6f66 8422
6cb0 1e6f 2a38 56c9 da44 375b a360 f3fb e907 a635
0406 9e2a e06f 26d2 b420 cf1b b49b 6036 99b0 b399
557b 233e 6233 64c3 4726 d492 55ed fe38 183a 9ea6
c1e1 ca52 8703 b4d2 0000

16321 kHz, 27-01, 0150 UTC

Block No 1 : Link ID 41018 : 27th of month : Msg Number 037 : Msg Type 07145 : Group Count (?) 245

32769 04035 46421 03073 21694 36239 15364 32011

16321 kHz, 30-01, 0150 UTC

Block No 1 : Link ID 41018 : 30th of month : Msg Number 040 : Msg Type 03065 : Group Count (?) 245

32769 21507 19973 07603 23743 01966 11422 60531

7d,12,b0,e6,00,33,08,f5,b0,54,f0,e0,91,33,a2,41,0c,ed,32,0b,a8,53,50,2e,c7,cc,ba,97,fe,e3,f9,c5,31,54,b2,00

Link 45057

20973/18736/16328 kHz, 14-01/15-01, 1000/1010/1020 UTC

Block No 0 : Total Message Size 11 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,10,00,40,00,10,00,00,00,00,00,00,00,5a,7e,02,12,3b,87,a2,22,20,7f,80,11,40,16,20,0e,60,06

Block No 1 : Link ID 45057 : 13th of month : Msg Number 227 : Msg Type 07145 : Group Count (?) 57

07556 56757 37398 01153 44730 33534 51658 41189

Link ID 45057, Date 13th, Serial #91. Groups 57

1be9b001a1d8482e3839f

6cdd b50e ba7e 9a9d 86f1 1ee3 a82e f56f 856a d67e
9546 6036 ab30 5212 36cd fde2 7402 262c 4736 ca87
15a1 ad13 2c8b 553a 192e 0afa 8b1a 4ca8 7eb6 2bda
b8c9 1953 5000 7f63 7a4d 1b74 4ac9 2f2b 2da6 f3e7
fd11 2e17 322c 5e25 0522 929d 0722 c48b 4f0a cbee
52ad 9d5c 9251 6019 eb30 57d0 0000

20973 kHz, 28-01, 0950 UTC: 46464646464646464646464646464646

20973/18736/16328 kHz, 28-01, 1000/1010/1020 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 45075 : 28th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
37641 00000 00000 03249 49814 36831 00893 39627

Link 45075

19928/17489/15914 kHz, 04-01, 0800/0810/0820 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 45075 : 4th of month : Msg Number 095 : Msg Type 07145 : Group Count (?) 4
18300 00000 00000 03711 14597 00841 00893 36527

19928/17489/15914 kHz, 11-01, 0800/0810/0820 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,02,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 45075 : 11th of month : Msg Number 237 : Msg Type 07145 : Group Count (?) 4
55520 00000 00000 00907 09055 33855 00893 37153

19928/17489/15914 kHz, 18-01, 0800/0810/0820 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 45075 : 18th of month : Msg Number 087 : Msg Type 07145 : Group Count (?) 4
54324 00000 00000 02353 09055 33117 00893 04750

19928/17489/15914 kHz, 25-01, 0800/0810/0820 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 45075 : 25th of month : Msg Number 132 : Msg Type 07145 : Group Count (?) 4
54324 00000 00000 00357 09055 32917 00893 42234

Link 45114 / 45115

14534/12149/10483 kHz, 15-01, 0900/0910/0920 UTC

Link ID 45114 : 13th of month : Msg Number 117 : Msg Type 07145 : Group Count (?) 224
38300 65139 13043 27760 65008 36216 37425 15552

Link ID 45114, Date 13th, Serial #47, Groups 224
1be9b03af959c82758e0f
39fe 736c 472c d21e 109f 00a1 c5e4 ca32 bded a782
e4e1 a491 250f 7032 3ccf ba5e 9455 48b4 bc78 89ab
83d1 e9ff 21bc c52f a846 d30a 2178 7b80 f298 6aad
ccbe 0c41 573d ced0 2d1b c646 3b74 2763 d34e ab80
b366 5d10 18cb 3ba6 c185 d2b5 2dae 4085 9232 1691
7d3d 1614 9263 225e f1b2 7c0d 6175 ddc8 21f6 4ee5
226e 43f3 4006 7c9c 111c d198 329c 4a37 cbc2 3ecf
4b03 50b9 031b 9b1e f622 52dd 5005 38d9 9b73 a01f
042c 168b f727 d8d9 6207 f75d d35f 21ac 366c 421a
99b5 095e 7202 1280 c5d0 056b 4a55 b459 f8b1 3e17
1321 9c60 d5a3 2937 a2b0 86d8 f033 a3b4 e020 6dc9
a577 0301 5bbb e694 6ba8 e853 3796 d0b1 3aef 149a
0aec f0f9 d823 6336 3d48 5827 c5dc 7d2b bd9a c13d
26a0 3b44 66cc a294 8901 6dd3 4a84 0658 6683 5c5d
1df2 3876 ab8c 4a7b e226 886e b32a fef4 4d03 7084
8186 3820 d353 26c8 84c8 2a14 1348 2466 1cc5 c739
27c0 b64d fb15 c5c6 c18c 8a4c 4d8e 90a6 7c0a 6581
e952 3684 3347 c2de 4055 dd01 f1b5 2b89 88ed fa56

Link 49237

12186/10243/8175 kHz, 05-01, 1330/1340/1350 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49237 : 5th of month : Msg Number 097 : Msg Type 07145 : Group Count (?) 4
12804 00000 00000 02992 54891 36728 00893 40072

12186/10243/8175 kHz, 12-01, 1330/1340/1350 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49237 : 12th of month : Msg Number 062 : Msg Type 07145 : Group Count (?) 4
21424 00000 00000 01319 58545 36414 00893 41024

12186 kHz, 19-01, 1321 UTC. Test: 46464646464646464646464646464646

12186/10243/8175 kHz, 19-01, 1330/1340/1350 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49237 : 19th of month : Msg Number 137 : Msg Type 07145 : Group Count (?) 4
09588 00000 00000 03885 44260 33030 00893 10348

12186/10243/8175 kHz, 26-01, 1330/1340/1350 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49237 : 26th of month : Msg Number 142 : Msg Type 07145 : Group Count (?) 4
36333 00000 00000 00688 49619 33714 00893 26920

Link 53277

16329/14826/12166 kHz, 04-01, 1230/1240/1250 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 53277 : 4th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
01476 00000 00000 03564 25896 36238 00893 44986

16329/14826/12166 kHz, 18-01, 1230/1240/1250 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 53277 : 18th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
41836 00000 00000 00701 25896 33029 00893 28030

X06 - Mazielka

Code	Freq	Date	UTC	Sequence
X06	16153	12-1	0815	Mazielka. Sequence: 153624
X06b	14663	7-1	1343	Mazielka sequence: 1--6-- before XPA2
X06b	16138	8-1	1153	Mazielka. Sequence: 1--6-- before XPA2
X06b	16138	8-1	1205	Mazielka. Sequence: 1--6-- before XPA2
X06b	16138	8-1	1228	Mazielka. Sequence: 1--6-- before XPA2
X06b	16138	8-1	1237	Mazielka. Sequence: 1--6-- before XPA2
X06b	16138	29-1	1213	Mazielka. Sequence: 1--6--
X06b	16138	29-1	1216	Mazielka. Sequence: 1--6--
X06b	16138	29-1	1218	Mazielka. Sequence: 1--6--



XPA

Mode: MFSK-20/10Bd

9108/10908/12208 kHz, 04-01, 0700/0720/0740 UTC

192 192 192 000
03623 00001 00000 10140

9108/10908/12208 kHz, 07-01, 0700/0720/0740 UTC

192 192 192 000
05694 00001 00000 10140

9108/10908/12208 kHz, 11-01/14-01, 0700/0720/0740 UTC

192 192 192 1 192 192 192 1 192 192 192 1
01680 00213 84196 70395 47078 00748 47719 70359 12802 26387
09886 66767 98374 61859 22430 84438 34251 31026 39258 88887
12934 12498 56503 11316 73935 10655 72871 85508 37289 10547
61794 29290 93396 22997 77631 67971 54764 74090 92788 86140
97082 61031 84821 04226 95493 71044 44487 72098 43007 70104
92923 73090 55252 92558 84561 79912 87026 41233 79632 76450
43068 72356 34123 21516 45527 04799 19799 33202 93460 10318
22894 88166 40403 95174 65547 90961 44651 07129 43306 74692
22245 59019 59303 67039 67404 56726 05603 22085 14311 00765
88801 49955 04312 41007 16481 03566 46039 90271 65124 95916
40092 87953 19134 49183 23801 48720 84046 15865 73551 33803
67460 82047 37156 92766 91326 80057 52017 25768 18063 88023
85966 85683 98738 47200 31381 07884 93170 69054 57812 79206
35891 02094 36292 42792 86123 21755 33891 32279 97383 16805
66559 85405 82298 10167 89695 50424 14492 97097 84506 97864
68914 75508 86386 73153 23879 44284 75503 33069 13722 46511
69048 44486 56392 93305 99705 20257 33721 57995 75748 08255
04976 15804 59757 66700 85293 01589 02012 70826 16840 09955
20781 50031 13921 84708 78464 87856 06809 71930 17488 37653
95250 55485 39055 05832 85854 10154 25882 06049 04649 57596
24419 06995 89621 95741 62661 63558 40964 75474 28102 83905
57874 94861 60313 55312 50484 03736

9108/10908/12208 kHz, 18-01, 0700/0720/0740 UTC

192 192 192 000
09405 00001 00000 10140

9108/10908/12208 kHz, 21-01, 0700/0720/0740 UTC

192 192 192 000
06702 00001 00000 10140

9108/10908/12208 kHz, 25-01/28-01, 0700/0720/0740 UTC

192 192 192 1 192 192 192 1 192 192 192 1
03616 00195 38305 48377 91922 55355 14461 42295 58028 17690
68745 71629 73454 30210 62150 76304 60894 87454 42996 96962
53612 11232 57319 19694 94080 12214 76974 28780 29486 00017
65860 54324 89354 59134 38777 47429 36028 56873 64492 40662
81241 32312 01432 04958 35589 94584 82072 65106 33968 38655
67239 69082 26693 47223 91029 20827 35133 97589 86754 55952
09439 41316 10018 54244 03372 35765 61994 46168 25096 68416
49456 08678 82648 69835 82180 01142 61644 12082 24002 36879
39046 74522 11325 50306 08706 54089 36780 77709 67669 23778
95059 25640 67956 25720 03372 77294 32539 31449 59932 39955

53639 95079 54565 13826 33997 73933 46815 51834 80917 75558
40994 72123 09971 63247 30135 15316 49060 66194 73512 43648
73801 07896 22608 25427 50786 67336 25597 43726 16958 49213
63342 59504 40404 55433 96103 58133 13425 00784 44943 11409
93592 42035 26476 51549 04448 43385 58963 01427 73986 26380
17439 54531 14858 97496 09936 40875 14893 26741 17042 19809
19922 92467 70643 88818 93887 25402 73164 54588 69045 02478
33426 67139 21633 64840 03529 53947 38873 32310 21767 61058
96869 57275 70531 01071 35213 61071 76677 50336 20290 13631
32814 82803 35156 47327 50729 51895 65938 05066



XPA2

Mode: MFSK-16/20Bd

16138/14438/13438 kHz, 01-01, 1300/1320/1340 UTC
01732 00001 00000 10140

15978/14978/14378 kHz, 02-01, 0800/0820/0840 UTC
06890 00001 00000 10140

13472/14772/16272 kHz, 03-01, 0700/0720/0740 UTC
05738 00001 00000 10140

16138/14438/13438 kHz, 031-01, 1300/1320/1340 UTC
05271 00001 00000 10140

15978/14978/14378 kHz, 04-01, 0800/0820/0840 UTC
02409 00001 00000 10140

13472/14772/16272 kHz, 06-01, 0700/0720/0740 UTC
07917 00001 00000 10140

16167/14663/13923 kHz, 06-01, 1400/1420/1440 UTC
09455 00001 00000 10140

16167/14663/13923 kHz, 07-01, 1400/1420/1440 UTC
03531 00001 00000 10140

16138/14438/13438 kHz, 08-01, 1300/1320/1340 UTC
02510 00001 00000 10140

15978/14978/14378 kHz, 09-01, 0800/0820/0840 UTC
05260 00001 00000 10140

13472/ 14772/ 16272 kHz, 10-01/13-01, 0700/0720/0740 UTC
02140 00063 93131 13212 75851 48490 60455 37579 53896 23108
20938 05023 94538 32509 47707 30670 41852 50612 56677 43038
94584 32715 23894 20818 81551 92184 45006 67679 34232 66357
90343 92864 27883 92027 24270 12170 04438 19993 79680 88384
47549 24038 40004 85566 71463 44558 48890 83736 08220 66433
88561 11188 28660 87831 33075 04001 32820 84468 60473 83272
09066 87435 60773 96445 89273 70156

16138/14438/13438 kHz, 10-01/15-01, 1300/1320/1340 UTC

07929 00069 99363 95753 56957 79130 00953 22454 46909 65214
76009 27944 53640 85791 69499 04141 85857 16977 04390 65796
52708 92860 85173 96131 61180 86933 77944 14016 06134 15271
19259 65048 35162 27379 95763 46495 99400 86816 57006 68209
27345 01663 37382 99074 41618 96882 58769 49771 54996 29175
63686 01822 85436 60739 71155 43788 08048 12599 42284 20498
36611 63940 48084 11178 62838 01882 22223 57858 14766 23154
18597 46613

15978/14978/14378 kHz, 11-01, 0800/0820/0840 UTC

05830 00001 00000 10140

16167/14663/13923 kHz, 13-01/14-01, 1400/1420/1440 UTC

02393 00061 47400 96332 96751 54877 42939 16320 34698 43562
14275 95575 07176 82391 25430 50439 68224 53727 01023 15704
66460 07769 77759 89945 70505 83003 60008 12712 25552 52876
98280 61124 34924 08635 04318 67655 26149 36709 48602 41144
97605 62229 11185 15381 19833 49927 39402 00709 47116 28185
94831 10258 60394 60976 07869 89297 64481 10109 40202 39514
57864 96105 14733 42525

15978/14978/14378 kHz, 16-01/18-01, 0800/0820/0840 UTC

04492 00193 22333 35863 70965 05763 21014 56244 95740 91413
15380 41957 98002 95361 67123 29271 08498 00389 12071 04844
99375 26414 10867 69046 36592 48155 59500 94711 87324 30142
76254 90703 81747 87009 48803 15960 39313 70138 40377 94610
78302 77951 35035 67454 84228 74521 96396 36849 77292 89097
87340 61388 89956 66220 58561 93494 87036 42382 16754 48250
39835 26985 07335 53061 19137 44297 54059 19252 52234 69321
01757 75312 41654 35099 30603 28119 58139 74544 88707 96084
15118 34455 37366 17613 58178 11264 06871 73611 26088 41038
07796 81703 81198 95608 14674 00396 03931 28486 37314 59085
82846 02319 61383 68978 95190 37085 07907 82896 68131 40579
57029 29203 10973 65828 03907 25812 99159 36252 06876 50818
47852 17594 18176 10878 66747 48283 29963 39001 47559 38523
77411 42961 27616 24086 26074 03361 30211 26174 99177 34091
33033 95759 04741 32603 33291 78530 26559 88518 76686 08359
08865 85838 56207 66598 30532 16436 26733 77689 89736 43594
58273 41134 26906 43657 67255 26057 60976 76385 79571 00158
71625 85384 71410 40709 98660 40661 12173 33337 54574 13635
21290 17035 19094 18394 98712 67380 43609 17535 69026 33601
45456 73737 05662 23251 27040 51117

13472/ 14772/ 16272 kHz, 17-01/20-01, 0700/0720/0740 UTC

00408 00079 91712 31517 67918 61919 11148 67853 42720 07777
37461 01836 20112 22203 78257 46986 62911 52906 58825 44077
34089 81449 36778 92425 05590 88430 16000 44104 44549 97732
45770 43283 01062 53946 25228 13427 13768 88075 00248 21861
64307 36877 14798 59378 58464 30396 95782 64665 85290 71831
32632 68104 91372 47214 32170 64796 36564 22092 26008 64080
85322 83038 06172 21434 21520 09798 55897 48607 98331 40480
33007 80654 51652 82900 16724 28828 38898 80340 69837 18967
12718 01242

16138/14438/13438 kHz, 17-01, 1300/1320/1340 UTC

02072 00001 00000 10140

16167/14663/13923 kHz, 20-01/21-01, 1400/1420/1440 UTC

01973 00077 82671 49186 65975 67716 70291 21014 88688 23152 80769
88456 09161 90516 83321 50803 30201 83962 75943 08886 71336 12883
17034 35186 89745 68343 36726 51956 05994 65126 76963 00009 43940
06498 09996 86586 77197 70634 31138 77997 08710 00984 59099 11044
81422 06304 37145 68956 47207 61855 46750 29840 75092 56537 14839
21317 81374 44857 74431 46120 38323 90929 58881 22235 41326 36634
00081 88851 94600 56333 88037 16639 41132 78874 73009 69750 20816
84806 85705 30251

16138/14438/13438 kHz, 22-01, 1300/1320/1340 UTC

03700 00001 00000 10140

15978/14978/14378 kHz, 23-01, 0800/0820/0840 UTC

07977 00001 00000 10140

13472/ 14772/ 16272 kHz, 24-01, 0700/0720/0740 UTC

01722 00001 00000 10140

16138/14438/13438 kHz, 24-01/29-01, 1300/1320/1340 UTC

07221 00081 61432 77327 16071 17669 71209 42948 78377 96539
98786 90298 56665 80347 41314 40402 01607 29822 94605 89239
79397 31821 54701 82546 58009 28595 65279 23412 54354 70050
81333 33626 75240 99094 17491 62290 84821 67765 36152 41055
15993 68565 58014 20087 03112 21606 13083 59737 17215 34882
12586 17841 43135 04656 02217 34141 56795 76869 10305 91981
63050 23169 48320 13527 36950 02178 91232 45204 88853 51200
10861 27209 86654 31857 65717 83174 78753 82359 98910 06529
57995 46753 76055 10644

15978/14978/14378 kHz, 25-01, 0800/0820/0840 UTC

07860 00001 00000 10140

13472/ 14772/ 16272 kHz, 27-01, 0700/0720/0740 UTC

04428 00001 00000 10140

16167/14663/13923 kHz, 27-01, 1400/1420/1440 UTC

03051 00001 00000 00140

16167/14663/13923 kHz, 28-01, 1400/1420/1440 UTC

03403 00001 00000 00140

15978/14978/14378 kHz, 30-01, 0800/0820/0840 UTC

03568 00163 57863 19976 58694 88961 46114 59207 64476 10470
87557 89640 30808 21579 82416 80541 79323 12826 50018 45763
32994 02315 37246 56917 80659 70265 18618 50833 99301 22113
61474 38358 75467 66988 21355 63140 68224 96685 51446 98757
22018 17512 27632 40289 31543 39383 07517 31365 58578 33363
05948 86545 94339 68609 70221 37676 11361 51497 77892 26730
71871 25548 50085 86125 57258 96027 71535 05333 90806 29356
67468 49511 24966 14444 00577 77363 63302 31274 49688 11782
37745 97549 26507 90215 06410 13637 37569 61475 63676 35544
94295 65211 63707 55595 50781 28420 06688 08826 43948 79036
99665 34898 80693 41895 52636 77940 56473 59996 10345 64710
02948 05439 46536 62833 42836 48539 06811 69072 10015 08781
39187 79488 87090 45968 21983 40671 73120 08900 44071 32043
03183 26866 95696 81068 43656 21400 30759 45165 98106 29576
21109 76443 19612 19287 97747 65873 46358 19765 37427 42394
56650 96956 54230 92346 83706 27894 11101 04222 17688 21560
07360 83028 53642 64196 30881 61251

13472/ 14772/ 16272 kHz, 31-01, 0700/0720/0740 UTC

02357 00001 00000 10140

16138/14438/13438 kHz, 31-01, 1300/1320/1340 UTC

09267 00001 00000 10140



F11

Mode: FSK 100/620

6940 kHz, 01-01/05-01, 0515/0520 UTC

0446 0446 0446 0446 0446

88888 88888 48694 87200 45044 89749 16909 07704 75289 37728

20055 63054 46423 72581 23017 28328 19867 57298 66947 75060

20216 93757 90660 60624 42634 06289 74482 85230 79562 76725

05653 42486 28008 78160 11491 33874 07125 93043 97169 27066

61212 88888 88888

00043 00043

7772 kHz, 10-01/12-01, 0630/0625 UTC

0574 0574 0574 0574 0574

88888 88888 14240 41987 94713 10385 17045 82275 72513 69052

38457 54011 40189 90338 75312 36356 59583 22099 88123 73732

12118 73850 45065 43562 55391 59342 96465 31357 26132 00626

89659 63368 90467 00759 87944 30953 87231 48933 41293 80838

65348 88888 88888

00043 00043

6836 kHz, 16-01/19-01, 0800/0805 UTC

0434 0434 0434 0434 0434

88888 88888 87233 78042 55321 32884 06831 14969 02932 14766

93214 74514 24372 10179 81331 58243 33207 13298 51884 29663

43873 96434 75467 00810 54277 82969 59337 21795 48829 35390

68471 33241 02883 40278 23671 88888 88888

00037 00037

7863 kHz, 17-01/18-01, 1150/1155 UTC

0325 0325 0325 0325 0325

88888 88888 40259 32718 21349 81656 74677 29437 12141 41669

43091 72294 49453 03745 15355 15418 23058 03499 75993 31220

49823 71683 43259 70679 24138 61172 33463 89915 23673 82884

80311 81335 75871 28026 49052 72086 88888 88888

00038 00038

16388 kHz, 19-01, 0730/0735 UTC

0433 0433 0433 0433 0433

88888 88888 88361 93359 73744 93164 09057 77409 81181 54738

58928 43846 56496 85703 11792 93073 51035 37505 75600 39451

54233 39259 43333 15389 29325 58934 18178 70971 15955 42689

07480 29716 68694 66822 88888 88888

00036 00036

9370 kHz, 23-01/25-01, 0845/0850 UTC

0353 0353 0353 0353 0353
88888 88888 03778 52287 89459 35420 89391 72430 26220 25724
44533 28689 50251 00569 81041 50918 81743 47142 20742 79917
05211 74636 99761 11168 81606 39955 06031 10761 98429 03806
37968 86223 16398 83399 88888 88888
00036 00036

7499 kHz, 24-01/27-01, 0900/0905 UTC

0554 0554 0554 0554 0554
88888 88888 79875 91452 47396 71325 38362 87226 65554 78190
14243 35928 98501 54572 07698 32231 24932 48574 11136 74051
94854 91833 04328 79538 97940 92762 58530 89097 69184 25171
75744 37268 79701 36397 23641 61175 01951 50025 46615 88888
88888
00041 00041

17531 24-01/25-01, 1245/1250 UTC

0132 132 0132 0132 0132
88888 88888 74540 81002 33664 77475 92350 00053 88285 13872
54414 54031 55047 88214 34486 58538 32142 77517 32667 83160
47422 84141 83255 77388 77054 39834 87781 19997 00920 44953
83494 52376 09772 88888 88888
00035 00035

6836 kHz, 30-01, 0800/0805 UTC

0434 0434 0434 0434 0434
88888 88888 87233 78042 55321 32884 06831 14969 02932 14766
93214 74514 24372 10179 81331 58243 33207 13298 51884 29663
43873 96434 75467 00810 54277 82969 59337 21795 48829 35390
68471 33241 02883 40278 23671 88888 88888
00037 00037



Q26 - Chinese military

Mode: 4+4 QPSK 75/3000 LSB

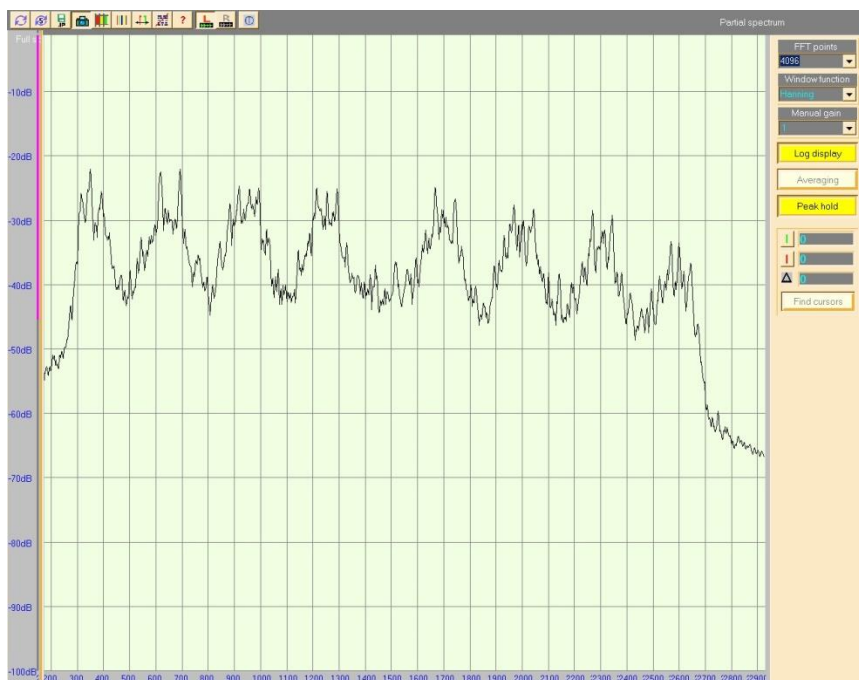
9153//7553 kHz, 20-01, 2008 UTC

NR024 CK143 35 0108 1535 --
717 203 008 326 004 773 318 353 420 445
486 338 483 319 353 420 938 418 445 486
338 483 005 773 318 353 420 446 486 319
353)(RT RIY PP6+**18 353 420 445
486 319 353 938 354 403 445 486 338 483
008 773 318 353 420 446 486 319 353 938
354 403 446 486 338 483 009 773 318 353
420 446 486 319 353 403 446 486 010 773
318 353 403 447 468 938 446 467 486 319
353 403 446 486 011 773 318 353 403 436-1
467 938 446 486 319 353 403 446 486 012
773 318 353 403 447 468 486 319 353 403
447 468 938 446 467 486 013 773 318 357
373 403 447 468 938 446 486 319 357 373
403 446 486
MSG AGN
NR024 CK143 35 0108 1535 --
717 203 008 326 004 773 318 353 420 445

486 338 483 319 353 420 938 418 445 486
 338 483 005 773 318 353 420 446 486 319
 353)(RT RIY PP6+**18 353 420 445
 RI6 319 353 938 354 403 445 486 338 483
 008 773 318 353 420 446 486 319 353 938
 354 403 446 486 338 483 009 773 318 353
 420 446 486 319 353 403 446 486 010 773
 318 353 403 447 468 938 446 467 486 319
 353 403 446 486 011 773 318 353 403 436-1
 467 938 446 486 319 353 403 446 486 012
 773 318 353 403 447 468 486 319 353 403
 447 468 938 446 467 486 013 773 318 357
 373 403 447 468 938 446 486 319 357 373
 403 446 486
 MSG AGN
 NRO24 CK143 35 0108 1535 --

7968 kHz, 16-01, 1403 UTC

XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 CJJ
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 NI
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 MSJJ
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 MAI
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX
 MAI



7708 kHz, 22-01, 1508 UTC

6YXYTYXYXY QSL 2311 AHR BOZ NIL SK
 XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
 XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
 J
 R DOUROEMQ EURO YQOR YTO
 7126 6849 1712 4901 6073 3503 2750?6580 9150 4:7!
 2515
 QSL LBTQWBUMK FUMK FUMK
 XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
 XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
 XYXYXYXYXYXYXY QSL KWEQQ AHR BOZ NIL SK
 R
 Y Q
 OQ EURO YQOR YTUI OUEP
 7126 6849 1712 4901 6073 3503 2750?6980T
 2515
 QSL ?*12IQQFUMK FUMK
 XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
 XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK

XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
IQXU GWROEQ EURO YQOR YTUI OUEP
7126 6849 1712 4901 6073 3503 2750#6440 9156 4!72
2515
QSL ?51
KKAYX AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
R
R OQ EURO YQOR YTO
7126 6849 1712 4901 6073 3503 2750?6980 91"6 4 7:
4
2515
QSL ?+:
TOJXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
TYEX
OUROAMQ EURO YQOR YTUI OUEP
7126 6849 1712 4901 6073 3503 2750?6TQT
QSL ?51
8?({
B
XYXYXCXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
RRTRE
FKOUROEMQ EURO YQOR YTUI OUEP
7126 6849 1712 4901 6073 3503 2750(6780 91"6 4:11
2515
QSL ?5
+8 FUMK FUMK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
I
Y QOX
GUROEMQ EURO YQOR YTUI OUEP
7126 6849 1712 4901 6073 3503 2750?6440TTQT QSL ?+
FUMK FUMK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
RR RJDOQ EURO YQOR YTUI OUEP
7126 6849 1712 4901 6073 3503 2750?**80TFTQT QSL ?
.1 SKYQ AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
RTY GUROMQ EURO YQOR YTUI OUEP
7126 6849 1712 4901 6073 3503 2750?&TQT
QSL ?5:
5* FUMK FUMK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
U LOUROEMQ EURO YQOR YTOUEP
7126 6849 1712 4901 6073 3503 2750#6580 91"6 4:7:
2515
QSL ?.
MK

XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
R
R LGUROQ EURO YQOR YTUI OUEP
7126 6849 1712 4901 6073 3503 2750?6580 9156 4#7=
2515
QSL ?).KFUMK FUMK K
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
RJTLGUROEMQ EURO YQOR YTUI OUEP
7126 6849 1712 4901 6073 3503 2750?6480 9156 4#7:
2515
QSL ?**IBXYXY QSL 2311 AHR BOZ NIL SK
XYXYXYXYXYXYXY QSL 2311 AHR BOZ NIL SK
XYXY



North Korean diplomatic stations

14348.5 kHz, 17-01, 0930 UTC, DPRK-ARQ 600/600 LSB



Egyptian diplomatic stations

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

16067.7 kHz, 12-01, 0924 TC, SITOR-A 100/170

MFA Cairo simplex tfc to unid embassy. Later calling OOVP (embassy Islamabad) ... 33361 huxd .. (QSY to 16333 kHz)

16334.7 kHz, 12-01, 0955 UTC, SITOR-A 100/170

MFA Cairo clg OOVP: Egyptian embassy Islamabad

16333 kHz, 12-01, 1432 UTC, CODAN chirp

MFA Cairo clg 66601 S

10220.7 kHz, 10-01, 2043 UTC, SITOR-A 100/170.

Egyptian diplo clg IPTX Egyptian embassy Havana i.p.

QJKD KFPD KDPCF KDKBSF JOR KDKAUKD HUXD

+?

+?

KDTJM DDR KYL KDMUO KDDR SGLF WDR HJKR HS 84 1 OMM KDKJQLOKH 84 KAUKD HJKJ KF 1 LKF 2 KDDR SGLF KDYFASH US +?

KDKHXKD KDKBSF

+?

+?

DK WDRK HJKJ LODS +?

KDOJLJ KDKHXKD KDKG WLSP KFPD YP DDHKWSM

+?

ADK KGK KPHJHRK HJKJ KSR KF WSL DDHKWSM YP KPHDJHRK HJKJ

+?

HJGGJ TYS WDR HJKJ

YS US KJKJ KDDR

KDDR SGLF SKQJKD

+?
YKKKKS
TX IPTX IPTX IPTXIPTX IPTX IPTX PTX IPTX IPTX IPTX IPTX IPTX IPTX IPTX IPTX IP
TX IPTX IPTX IPTX IPTX IPTX IPTX IPTX IPTX IPTX

9046.7 kHz, 18-01, 2029 UTC, SITOR-A 100/170
MFA Cairo clg RCVB Egyptian embassy Washington.

RCVB RCVB RCVB RCVB RCVB RCVB RCVB RCVB RCVB
(%%YKZZK GQFY 17 17101 LJFQOGK RGK HKFF+?
HUXD TYS +?%')#
K PSMMAAAAM
BNKD TJM K KT
KDKFYoke KTJM KSJG KSJG KM
KDQJOH KSJG OBBKSJG
QQ CKKAAA J DDODJ.
LDPSKMHWJ LKUF KDKTHFKJ LKDHAMS MMM WW V
LKZGCG
KDSKQOK KLKFCAFG SOBK AA BKBQQQAA AAA ABEBKQJKDS KDXKUSSASS
B YKDOD+?788HJKJ TYS KDLFMSR PS 2 KDKAUkd PS 3 LJSg JOKGK POH 200 LKDKHXKD POH
022 HUXD
+?HPDJ JG WD ZF US KJG KDDR HUXD
+?888'2- %%888:%%\$, ,,YFQKE KDKHXKD POH 022

9046.7 kHz, 18-01, 2041 UTC, SITOR-A 100/170
Egyptian diplo clg SSBT Egyptian MFA Cairo

UTILITY ROUND-UP



Japan Air Self-Defense Force

We received an extensive report from André (F5JBR) and logs from Hugh and Nils about the various Japanese Air Force nets. So far 6 nets have been identified. See also N&O #231.

5055 kHz, 0950 UTC, then at on 3195 kHz, 0955 UTC, simplex net
Net control: JJT88 (Tokyo)
Outstations: JJT20, JJT55 (Fuchu), JJS21(Misawa), JJV56 (Hamamatsu), JJZ37 (Kasuga), JJT44 (Irumagawa), JJU22 (Naha)

3210 kHz, 1000 UTC, simplex net
Net control: JJT88 (Tokyo)
Outstations: JJX25 (Miho AB), JJX36 (Bofu), JJZ59 (Ashiya Fukuoka), JJZ48 (Tsuiki), JJZ26 (Nyutabaru)

Traffic:
JJT88 sends "CQ de JJT88 QRK ?"
Each outstation, in a fixed order, responds with "JJT88 de JJ... QRK 3".
If a station does not answer, JJT88 asks another station to forward the message. When all stations responded, JJT88 transmits "CQ de JJT88 QRK 3/4 and QSY AR"

Other nets:
2685 kHz, 1000 UTC, simplex net
Net control: JJT44 (Irumagawa)
Outstations: JJT30, JJT88 (Tokyo), JJW35, JJV89, JJV40, JJW46, JJS76, JJT99

2671 kHz, 1000 UTC, simplex net
Net control: JJU22 (Naha)
Outstations: JJU33 (Yozadake), JJU55, JJZ44

3852.5 kHz, 1015 UTC, simplex net
Net control: JJZ37 (Kasuga)
Outstations: JJZ82, JJX58, JJX47, JJZ., JJZ50, JJZ93, JJZ60
Note: the net control stations sends "QRX 0900" (0000 UTC)
On 13-01 it sent "QRX 16 0900" (16 Jan 0000 UTC)

3650.5 kHz, 1030 UTC, simplex net
Net control: JJT88 (Tokyo)
Outstations: JJV34 (Miho AB)

Before making their daily QSO's, it is quite common to hear stations doing tests on other frequencies, including 2356, 3390, 3587.5, 3691, 4187.5, 4190, 4191, 4577.5, 5055, 5131, 5191, 5315, 5775, 6285.5, 6292, 6421, 6500.5, 6770, 6775, 7779.5, 8017, 8343, 8346, 8349, 8349, 8356, 8378 kHz

Station list:

Japanese Navy / Naval Air callsigns:

JJA20 Sapporo
JJB20 Sandai
JJC20 Tokyo
JJD20 Osaka
JJE20 Kumamoto

Japanese Air Force callsigns:

JJF3 Funakoshi
JJR20 Chitose
JJR31
JJR42
JJR53
JJR64
JJS21 Misawa Airbase, Misawa
JJS32 Matsushima
JJS54
JJS65 Otaru
JJS76
JJT20
JJT22 Kisarazu
JJT30
JJT33 Hyakurigahara
JJT44 Irumagawa
JJT46
JJT55 Fuchu

JJT66 Kumagaya
JJT72
JJT77
JJT88 Tokyo
JJT99
JJU22 Asahikawa
JJU33 Yozadake
JJU55 Miyaoshima
JJU66 Kume Shima
JJV23 Komaki
JJV34 Shizuhama Shiz
JJV40
JJV46
JJV55
JJV56 Hamamatsu
JJV67 Gifu
JJV78
JJV89
JJV90 Komatsu

JJW24 Nara
JJW35
JJW46
JJX25 Miho Air Base
JJX36 Bofu
JJX47
JJX58
JJZ26 Nyutabaru
JJZ37 Itazuke
JJZ44 Okinoerabu
JJZ48 Tsuiki
JJZ50
JJZ59 Ashiya Fukuoka
JJZ60
JJZ71
JJZ82
JJZ93



Unid stations

André copied this unid simplex net. He thinks that it is Japanese or from a country near to Japan. Any info is most welcome.

The net has fixed schedule at 1000 and 2315 UTC on 2421 kHz (1900 and 0815 hrs Japanese time).

Net control station: PÔÛR

Collective callsign for the stations in the net: PÂÂR

Other stations: PÛÂZ, PÇPÇ, PÛPÛ, PIÛG, PÛÇP, RÛÂM, RÛDÂ, RÛYÇ, PÂMP

Traffic :

PÂÂR DE PÛÛR QRK ? K
DE PÛÂZ QRK 4 K
DE PÇPÇ QRK4 K
DE PÛPÛ QRK 4 K
DE PÛSÇ QRK K
DE PIÛG QRK 4 K
DE PÛÇP QRK 4 K
DE RÛÂM QRK 5 K
DE RÛDÂ QRK 4 K
DE RÛYÇ QRK 4 K
PÂMP DE PÛÛR QRK ? K
DE PÂMP QRK 4 K
PÂÂR DE PÛÛR QRK 4 II QRX 0815 K

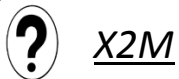
Each secondary station acknowledges receipt and VA

2421 kHz, 26-01, 1000 UTC

PÛÛR wkg 11 stations: PÛÂZ, PÇPÇ, PÂMP, PÂDÇ : PÛPÛ, PÛVZ, RÛSÛ, PÛÇP, RÛÂM, RÛDÂ, RÛÛÇ.

2590 kHz, 26-01, 1030 UTC

ÂOÇZ wkg 20 stations: ÂMÛÛ, ÂMÛÇ, ÂZÂM, Â..., ÂÛÇÂ, ÂÇPÇ, ÂDÇÛ ÂRÛM, ÂPÂR, ÂÛÇÛ, ÂMÇÇ, ÂÇKM, ÂZÇU, ÂÇÛD, ÂZÇR, ÂOÛR, ÂÂÂD, ÂSÛO, ÂÂÇD, ÂPÛZ, ÂJÂS (Collective callsign)



X2M reports submitted by JPL. Any info about this station is most welcome.

7920//8250//8411 kHz, 09-01, 0920 UTC, CW, i.p.

AR
.. 17 CK 190 CK 190 TIME 1619 TIME 1619 DATE 0901 DATE 0901 =
NT6U5 4NT6U T63T4 (Cont'd) AR
19 19 CK 190 CK 190 TIME 1625 TIME 16 DATE 0901 DATE 0901 =
73A4. .. N T7354 (Cont'd) AR
ZOM15

7920//8250//8410 kHz, 12-01, 0931 UTC, CW, i.p.

CQ (x3) de X2M (x2) VVV
MSG MSG ENG ENG
01 01 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1201 DATE 1201 =
546UN .UNT7 4TA75 6573A TU4A6D 3N475 D4NT6 (Cont'd) AR
03 03 CK 100 CK 100 TIME 1637 TIME 1637 DATE 1201 DATE 1201 =
D45A6 TDA7U 6U73N 4NT6A DAN46 AA3NT D34T7 U73N4 (Cont'd) AR
05 05 CK 100 CK 100 TIME 1643 TIME 1643 DATE 1201 DATE 1201 =
..... 73NT6 5T3A7 T576U 6NU53 ND4A5 76D43 5A6U7 (Cont'd)

7920//8250//8410 kHz, 14-01, 0906 UTC, i.p.

AR
.. .. CK 100 CK 100 TIME 16.6 TIME 16.6 DATE 1401 DATE 1401 =
3U4. (Cont'd) AR
.1 .1 CK 100 CK 100 TIME 1... TIME 1612 DATE 1401 DATE 1401 =
.3U4 3ATUD (Cont'd) AR
.3 73 CK 100 CK 100 TIME 1617 TIME 1617 DATE 1401 DATE 1401 =
ANUD6 ..A3. (Cont'd) AR
75 75 CK 100 CK 100 TIME 16.. TIME 1643 DATE 1401 DATE 1401 =
AN5A. DAN46 3NT64 (Cont'd) AR
.. 77 CK 100 CK 100 TIME 1.3. TIME 1618 DATE 1401 DATE 1401 =
TDU75 3NTD. (Cont'd) AR

79 79 CK 100 CK 100 TIME 16.3 TIME 1... DATE 1401 DATE 1401 =
D5..N 3TD.D (Cont'd) AR
CQ (x3) DE X2M (x2) VVV (x3)
MSG MSG ENG ENG
CQ (x3) DE X2M (x2) VVV (x3)
MSG MSG ENG ENG MSG ENG
81 81 CK 100 CK 100 TIME 1649 TIME 1649 DATE 1401 DATE 1401 =
T.A7U .U73D (Cont'd) AR
83 83 CK 100 CK 100 TIME 1645 TIME 1645 DATE 1401 DATE 1401 =
D5T3A UD5NT 3UTD6 N5A3U (Cont'd) AR

7920//8250//8410 kHz, 15-01, 0900 UTC, i.p. barely audible

7920//8250//8410 kHz, 17-01, 0918 UTC, i.p.

UA3NT 4TA75 7.D43 AR
17 17 CK 100 CK 100 TIME 1618 TIME 1618 DATE 1701 DATE 1701 =
.T6A5 3..DU T6374 U7D4. (Cont'd) AR
19 19 CK 100 CK 100 TIME 1624 TIME 1624 DATE 1701 DATE 1701 =
7.A4T 3A4TN A7.54 6.4UD 3NT7A (Cont'd) AR
7Z.W5
CQ (x3) DE X2M (x2) VVV (x3)
MSG MSG ENG ENG
CQ (x3) DE X2M (x2) VVV (x3)
MSG MSG ENG ENG
MSG ENG
21 21 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1701 DATE 1701 =
UNN5A 4.AD5 N5T63 7U43N A7UD4 (Cont'd) AR
23 23 CK 100 CK 100 TIME 1637 TIME 1637 DATE 1701 DATE 1701 =
4.6AD A6U74 DAN46 3NT64 7U53N U7D45 (Cont'd) AR
25 25 CK 100 CK 100 TIME 1643 TIME 1643 DATE 1701 DATE 1701 =
TUAD3 53UAN 7AD36 D46TA 6N7AD N465U 3NT64 (Cont'd)

7920//8250//8410 kHz, 18-01, 0950 UTC, i.p

11 CK 100 CK 100 TIME 1601 TIME 1601 DATE 1801 DATE 1801 =
AR
1. 1. CK 100 CK 1000 TIME 16.. TIME 1607 DATE 1801 DATE 1801 =
..... (Cont'd)
AR
.. .. CK 100 CK 100 TIME 1614 TIME 1614 DATE 1801 DATE 1801 =
..... (Cont'd)
AR
.. .. CK 100 CK 100 TIME 16. TIME 1... DATE 1801 DATE 1801 =
..... (Cont'd)
AR
.. .. CK 100 CK 100 TIME 16.4 TIME 1624 DATE 1801 DATE 1801 =
73A.. 3.3T. (Cont'd)
AR
Z..... (
CQ (x3) DE X2M (x2) VVV (x3)
MSG ENG MSG ENG
21 21 CK 100 CK 100 TIME 1632 TIME 1632 DATE 1801 DATE 1801 =
..... (Cont'd)
AR
23 23 CK 100 CK 100 TIME 1638 TIME 1638 DATE 1801 DATE 1801 =
4T6AD U6U.. (Cont'd)
AR
25 25 CK 100 CK 100 TIME 1644 TIME 1644 DATE 1801 DATE 1801 =
TUT.3 (Cont'd)

7920//8250//8410 kHz, 20-01, 0934 UTC, i.p
CQ DE X2M VVV
MSG ENG MSG ENG
21 21 CK 100 CK 100 TIME 1... TIME ..34 DATE 2001 DATE 2001 =
..... (Cont'd)

7920//8250//8410 kHz, 23-01, 0909 UTC, i.p
TIME 16.. DATE 2301 DATE 2301 = T6734 73

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by JPL, Ary, Wolfgang, Ron and long reports from André and Topol.



RMv/RNv/RNAv/RAv Russian military stations

Frequency: various Mode: USB / voice

RNAv – Russian Navy Air Transport

11354 kHz, 30-01, 1217 UTC

Priboj (Naval Air Transports Central Sector, Moscow) wkg Zarechnij (unid) confirming report by 84842 (Russian Navy prob AN-26) passing point (missed) at 1214Z at FL190 w/3,800 kgs fuel.

11354 kHz, 31-01

1307 UTC Priboj (Naval Air Transports Central Sector, Moscow) wkg 84851 (not heard) reporting departure from Ostafyevo at 1225Z w/7,000 kgs fuel, FL270 and ETA landing Eisk 1515Z.

1310 UTC 75125 (Russian Navy IL-18/20) wkg Novator (Naval Air Transports Northern Sector, Murmansk-not heard) reporting departure from (missed) at 1308Z

RAv – Russian Air Force

6685 kHz, 30-01

1611 UTC 78776 (IL-76MD) USB calling Korsar w/no response.

1811 UTC Davlenie wkg 78776 (IL-76MD) reporting 3 hrs into flt w/34 tons fuel & "ops normal".

1833 UTC Korsar wkg 76764 (IL-76MD) reporting departure from Pravdivnij at 2115 MSK w/32 tons fuel & next is Chkalovskij. At 1842Z 76764 reports landing at Chkalovskij.

11360 kHz, 30-01

1317 UTC Aircraft 779 USB calling Korsar & Davlenie (Russian Air Force 708th Air Transport Regiment, 6958th Air Base, Taganrog) for R/C. Answered by Korsar.

1324 UTC Korsar wkg acft 012 (prob AN-124-not heard) reporting landing at Raspiska (Russian AB Mozdok) w/50 tons fuel & "ops normal".

1335 UTC Korsar wkg 76764 (IL-76MD-not heard) reporting departure from Mudrets (Russian AB Khotilovo) at 1615 MSK and next is Pravdivnij (Russian AB Bryansk).

1422 UTC Korsar USB w/76724 (IL-76MD-not heard) reporting landing at Tai'mir (Russian AB Krimsk)

11362 kHz, 30-01, 1147 UTC

Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov) clg 78762 (IL-76MD) w/no response.

6685 kHz, 31-01

1639 UTC 76745 (IL-76MD) wkg Davlenie (Russian Air Force 708th Air Transport Regiment, 6958th Air Base, Taganrog) reporting landing at Kvartet (Russian AB Taganrog)

1705 UTC 78830 (IL-76MD) USB calling Korsar w/no response

11360 kHz, 31-01

1229 UTC Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov) USB w/78764 (IL-76MD-not heard) reporting 2 hrs into flt w/34 tons fuel & "ops normal"
 1503 UTC Korsar USB w/76724 (IL-76MD-not heard) reporting 3 hrs into flt & "ops normal"
 1510Z UTC Korsar USB w/76798 (IL-76MD-not heard) reporting 2 hrs into flt & "ops normal"

**M32****Russian / CIS Military CW Stations****5596 kHz, 09-01, 1507 UTC, i.p.**

2US2 DE P71R K
 BVF9 DE P71R K
 BVF9 DE P71R K
 1AQG DE P71R K
 1AQG DE P71R K
 1AQG DE P71R K
 9XLI DE P71R K
 QSA 2 QSA ? K
 R K

5319 kHz, 17-17, 1435 UTC, i.p.

== = N4.. QRU ? K
 QAP K
 == = QAP K
 A RPT K
 QSA ZDL QSY 6
 == = QSY 28784 QSY 28784 K
 = = ZLDK QSY 28784 QSY 28784 K
 = = MEH QSA ZADT QSY 28784 QSY 28784 K
 QSY 28784 QSY 28784 K
 VXMF VXMF VXMF DE P8IL P8IL K
 VXMF VXMF VXMF DE P8IL P8IL K
 VXMF VXMF VXMF DE P8IL P8IL K
 Q BK QSA 3 QA QSA ... QSA ? K
 NIL QLU AFI
 == = = QAP K
 QAP K K
 VXMF DE P8IL QSA .. QSY 28784 QSY 28784 K
 BK BK BK QSY 28784 QSY 28784 K
 VXMF DE P8IL K

7931 kHz, 23-01, 1558 UTC XXX XXX WEGI WEGI 87223 LION 61700 766 RIFOZU 66119 8729 K
 3517 kHz, 23-01, 1607 UTC X9WN DE KCLI K
 7859 kHz, 29-01, 1401 UTC XXX WEGI WEGI 50652 14795 FANTOTAZ 1031 6789
 XXX XXX WEGI WEGI 50652 14795 FANTOTAZ 1031 6789 K

17460 kHz, 25-01

0938 UTC RDL RDL RDL 43285 27727 43285 27727 43285 27727 K
 0958 UTC U U U XXX XXX WEGI WEGI 77220 52622 VESTOKRIK 8130 3761 HLEDOTEMP 0804 0156
 XXX XXX WEGI WEGI 77220 52622 VESTOKRIK 8130 3761 HLEDOTEMP 0804 0156 K
 1056 UTC U U U RDL RDL RDL 24896 50888 24896 50888 24896 50888 K
 1115 UTC U U U U XXX XXX WEGI WEGI 82271 15444 UBEGOSLOJ 82271 15444
 XXX XXX WEGI WEGI 82271 15444 UBEGOSLOJ 8128 5714 K
 1208 UTC U U U U RDL RDL RDL 89207 16526 89207 16526 89207 16526 K
 1209 UTC U U U RDL RDL RDL 21118 92665 21118 92665 21118 92665 K

1230 UTC U U U XXX XXX WEGI WEGI 21566 04946 KLADOVIK 8760 4507
XXX XXX WEGI WEGI 21566 04946 KLADOVIK 8760 4507 K
1314 UTC U U U RDL RDL RDL 65846 21740 65846 21740 65846 21740 K

12152 kHz, 30-01

1026 UTC WAAJ 244 27 30 1321 244 = 858 =
35967 76760 17755 58348 11695 49350 90144 27800 68594 12526
50192 94113 34908 75701 16496 54151 98083 38877 79671 20465
67259 11467 49123 89916 26573 30025 K
1028 UTC WAAJ K
1030 UTC 6TP5 DE WAAJ K
1031 UTC WAAJ QOC K
WAAJ 110 27 30 1330 110 = 858 =
89052 26708 67502 11434 59090 86746 27540 65196 12266 46784
85577 28372 66027 13098 50753 88409 29203 66759 10791 88447
86102 23759 80242 24175 64968 30025 K

7523kHz 27-01

0813 UTC XXX LR43 TEKHNICHESKAYA PROVERKA 592
0815 UTC RMW34 DE RMW32 ZSA1 R
0816 UTC RMW36 RKKK ZSA3 [not sent by RMW32]
RMW36 DE RMW32 ZSA4 R
RMW46 DE RMW32 ZSA1 R
0817 UTC RMW44 DE RMW32 ZSA5 R
1130 UTC XXX LR43 TEKHNICHESKAYA PROVERKA 540
1131 UTC RMW34 DE RMW32 ZSA3
1132 UTC RMW36 RKKK ZSA4
RMW36 DE RMW32 ZSA5 R
1133 UTC RMW44 DE RMW32 ZSA4 R
1134 UTC RMW46 DE RMW32 ZSA3 R



M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

RMCW: Russian Navy Ship Donuzlav
RFH70: Russian Navy ship DG Smetlivyj
RHY73: Russian Navy ship Admiral Kuznetsov
RHI99: Russian Navy ship Alexander Shabalin (110)

8345 kHz, 09-01

0606 UTC RCV DE RMCW 408 18 9 0903 408 = SML FOR RJE73 RJH45 RJH48 = 09061 99143 10417 429.....
0927 UTC RMP DE RGX80 OK QRR3 SK
1806 UTC RCV DE RMCW 567 16 9 2101 567 = SML FOR RJE73 RJH45 RJH48 =
09181 99143 10419 42998 01307 10269 40133 53019 22200 00264 20302 09011 =
+ RMCW K

8345 kHz, 10-01

0645 UTC RCV DE RFH70 QYT4 QLS K OK QYT4 QWH 8310 K

12464 kHz, 09-01

0612 UTC RIT DE RHY73 QSA? K
0658 UTC RCV DE RMCW 128 37 9 0952 128 = SML FOR RJE73 RJH45 = KKXXX 09017 0640/ 11428 04152 88870
0906 UTC RCV DE RMCW 227 18 9 1202 227 = SML FOR RJE73 RJH45 RJH48 =
09091 99144 10418 42998 01307 10258 40143 58003 22200 00266 20302 88000 80000 09013 =
+ RMCW K
0920 UTC RCV DE RHI99 QSA? K QYT4 QSX 10675 K

RCV DE RMBB QSA? K QRR3 QDW 9248 K
RIT DE RMMA QSA? K
RCIG 44138 WOKOPAH 6091 3415 K
RMCW 44138 WOKOPAH 6091 3415 K
RMCW 74862 BREDOLOG 9827 3669 K
RCIG 74862 BREDOLOG 9827 3669 K

1453 UTC RCV DE RMCW 901 39 9 1747 901 = FOR RJS RCV = 11111 88860 99953 42265
1505 UTC RCV DE RMCW 160 18 9 1801 160 = SML FOR RJE73 RJH45 RJH48 =
09151 99143 10418 42998 00908 10269 40114 56001 22200 00264 20302 88000 80000 09013 =
+ RMCW K
XXX XXX RVJ RVJ 44138 WOLKOPAH 6091 3415 K
XXX XXX RVJ RVJ 74862 BREDOLOG 9827 3659 K

3335 kHz, 19-01, 1826 UTC

RJP42 QSA ? QTC K
RJP42 631 14 19 2101 631 =
FM RJP42
FOR RJH48 RJH45 =
19181 99451 12451 41297 40902 01020 40050 57013 70222 8//// 22232 =
AR RJP42 K
RPJ42 OK QRU K

5066 kHz, 01-01, Simplex

0542 UTC VVV RCV DE RHI99 QSA3 [sets up QYT4]
0618 UTC VVV RCV DE RCJE QSA? QTC
0619 UTC RCJE 811 18 1 0905 811 = SML FOR RJH45 RJE73 =
01061 99??4 10261 43498 40303 10110 40240 54??6 70211 22211 00?? 20202 30000 88000 01014 = + RCJE

15586 kHz, 01-01

0830 UTC RIP90 DE RCV QTC 270 ??? 1 0110 270 = NAVIP 032 2??? KARTA 36129.... [Nav warnings]
0835 UTC RBE86 DE RCV QTC 628 27 31 1338 628 = NAVIP 034 757 KARTA 34257.... [Nav warnings]
0843 UTC RGX94 DE RCV QTC 833 38 31 1336 833 = NAVIP 034 757 KARTA 32339.... [Nav warnings]
0846 UTC RIP90 DE RCV QTC 265 144 30 1301 265 = NAVIP 032 2410 KARTA 32202.... [Nav warnings]
0903 UTC RIP90 DE RCV QTC 260 55 27 1609 260 = NAVIP 033 752 KARTA 31019.... [Nav warnings]
1034 UTC RMCW DE RCV QSA? QTC
1039 UTC RCV 314 35 1 1305 314 = SML FM RJS =
22222 68910 65245 31462 07994 38048 65946 78848 20089 59870
18236 11934 26568 72627 45147 53500 96049 68... [stepped on by Radio Station]
1204 UTC RCJE DE RCV QSA1 QRV
1206 UTC RCV QSL 871
1208 UTC RMCW DE RCV QSA2 QRV
1210 UTC RCV QSL 308
1217 UTC RMCW DE RCV QSA1 QRO
1221 UTC RMCW DE RCV RPT 314 35 1 1305 314 = SML FM RJS =
22222 68920 65245 31462 07994 38048 65946 78848 20089 59870
18236 11934 26568 72627 45147 53500 96049 68148 50191 18869
27405 82710 82801 87760 30753 01619 86154 89018 76894 80019
42646 10335 01032
1227 UTC RKZ DE RCV QTC 238 173 1 1415 238 = PROGNOZ POGODY OT 1800 1 [Weather warning]

5066 kHz, 02-01, Simplex

0606 UTC VVV RCV DE RCJE QSA? QTC [RCV replies, very faint]
0612 UTC RCJE 475 18 2 0905 475 = SML FOR RJH45 RJE73 =
02061 99397 10256 43898 33604 10100 40230 54020 70200 22282 00100 20202 30000 88000 02014 = + RCJE

15586 kHz, 02-01

0837 UTC RBE86 DE RCV QTC 630 120 2 0126 630 = [Nav warning]
0845 UTC RIP90 DE RCV QTC 280 100 2 0133 280 = [Nav warning]
0858 UTC RIP90 DE RCV QTC 278 30 2 0135 278 = [Nav warning]
0903 UTC RGX94 DE RCV QTC 834 43 2 0120 834 = [Nav warning]

0909 UTC RMCW DE RCV QSA1 QRV
0919 UTC RBE86 DE RCV QTC 631 96 2 0??? 631 = [Nav warning]

5066 kHz, 03-01, Simplex

0602 UTC VVV RHI99 DE RCV QSA?
0603 UTC RCV DE RHI99 QSA2
0604 UTC RHI99 DE RCV QYT4 QSX 5028.5 RHI99 OK QYT4 QWH 5028.5
0605 UTC VVV RCV DE RCJE QSA? QTC
0606 UTC RCJE DE RCV QSA2 QTC
RCJE 114 18 3 0905 114 = SML FOR RJH45 RJE73 =
03061 99398 10258 43698 32705 10120 40200 54000 70201 22282 00100 20201 30000 88000 03014 = + RCJE

8345 kHz, 03-01

0004 UTC VVV RCV DE RMCW QSA? QTC
0009 UTC RMCW 523 16 3 0301 523 = SML FOR RJE73 RJH45 RJH48 =
03001 99145 10416 42998 01410 10277 40138 57011 22200 00264 20402 03011 = + RMCW

15586 kHz, 03-01

0920 UTC RBE86 DE RCV QTC 630 120 2 0125 630 = [faded]
1008 UTC RBE86 DE RCV QTC 628 27 31 1338 628 = [Nav warning]
1010 UTC RMBB DE RCV QSA2 QRV
1043 UTC RCV QSL 226 [after many RPT's]
1044 UTC RGX94 DE RCV QTC 833 38 31 1335 833 = [Nav warning]
1050 UTC RIP90 DE RCV QTC 265 144 30 1301 265 = [Nav warning]
1138 UTC RKZ DE RCV QTC 167 191 3 1340 167 = [Weather warning]
1240 UTC RKZ DE RCV QTC 999 137 3 1355 999 = [Weather warning]

8345 kHz, 04-01

0055 UTC VVV RCV DE RMCW QSA? QTC
0056 UTC RMCW 262 16 4 0326 262 = SML FOR RJE73 RJH45 RJH48 =
04001 99145 10416 22200

8345 kHz, 22-01

0004 UTC VVV RCV DE RMCW QSA? QTC
0005 UTC RMCW 448 16 22 0302 448 = SML FOR RJE73 RJH45 RJH48 =
22001 99125 10447 42/98 90807 10258 40152 57012 22200 00266 20302 22011 = + RMCW

8460 kHz, 22-01

0736 UTC RMS95 DE RMP QSA1 QSX 4967 QWH 4282
0821 UTC REO DE RMP QTC 859 36 22 1111 859 =
11111 04794 08773 04798 35239 74388 33614 63152 66907 62971
65363 99022 21299 06639 13383 18432 24295 86022 87363 63852
24467 45690 50685 89842 06461 71479 08938 56103 92524 07164
40694 31896 69198 90828 75283 22035

3395.5 kHz, 22-01, Simplex

0006 UTC VVV RCV DE RBIZ QSA? QTC
0007 UTC RBIZ 994 14 23 0300 994 = FOR RJE73 RJH45 = 23001 99399 10256 22200 [very faint]
0010 UTC VVV RCV DE RCJE QSA? QTC
0011 UTC RCJE 643 18 23 0301 643 = SML FOR RJH45 RJE73 =
23001 99407 10273 43498 80110 10070 40320 54005 70211 22252 00060 20303 30000 88000 23014 = + RCJE
0024 UTC VVV RCV DE RMGZ QSA? QTC
0025 UTC RMGZ 688 18 23 0320 688 = SML FOR RJH45 RJE73 = 23001 99422 10295 42/98 [faded]
0331 UTC VVV RCV DE RBIZ QSA1
0333 UTC RBIZ OK QYT4 QWH 3809
0426 UTC RCV DE RCJE QSA1
0428 UTC RCJE OK QYT4 QSU1 QSX 4304 QWH 4273.5 [after RPT's]
0448 UTC VVV RMGZ DE RCV [faded]
0449 UTC RCV DE RMGZ QSA1
0453 UTC RCV DE RMGZ OK QSU RMNW

0454 UTC RMGZ OK QRR3 WRK

8345 kHz, 22-01

0002 UTC RCV DE RMCW QSA? QTC
0003 UTC RMCW 510 16 23 0300 510 = SML FOR RJE73 RJH45 RJH48 =
23001 99125 10447 42998 01005 10258 401?? 57013 22200 00269 20301 23011 = + RMCW

3395.5 kHz, 24-01, Simplex

0003 UTC VVV RCV DE RBIZ QSA? QTC. RBIZ DE RCV QSA3 QRV
0004 UTC RBIZ 116 15 24 0300 116 = FOR RJE73 RJH45 =
24001 99379 10255 42/98 /0504 10090 ?0240 57000 70202 22252 ?0140 24011 = + RBIZ
0005 UTC VVV RCV DE RCJE QSA? QTC. RCJE DE RCV QSA3 AS3
0009 UTC RCJE DE RCV QRV
0010 UTC RCJE 249 18 24 0301 249 = SML FOR RJH45 RJE73 =
24001 99399 10256 43497 73110 10090 40230 54045 70211 22200 ?0060 20303 30000 88000 24014 = + RCJE
0014 UTC VVV RCV DE RMGZ QSA? QTC. RMGZ DE RCV QSA3 QRV
0015 UTC RMGZ 291 17 24 0310 291 = SML FOR RJH45 RJE73 =
24001 99425 10306 42/97 /1807 10050 40023 54000 70202 8//// 22262 00110 318// 24013 = + RMGZ
0319 UTC VVV RCV DE RMNW QSA? QTC
0322 UTC VVV RMNW RCV QSA?
0323 UTC VVV RCV DE RMNW QSA? QTC. RMNW DE RCV QSA1 QRV
0324 UTC RMNW 757 46 24 0600 757 =
54338 27555 21916 54322 39873 31819 54787 70496 18115 73256
17399 95026 56550 05454 40969 14474 402?? 11428 59986 60593 [faded]
1800 UTC VVV RCV DE RCJE QSA? QTC
1801 UTC RCJE 716 18 24 2100 716 = SML FOR RJH45 RJE73 =
24181 99399 10257 43496 83008 10095 40180 54050 80266 22251 00060 20303 30000 88000 24014 = + RCJE
1804 UTC VVV RCV DE RMGZ QSA? QTC
1805 UTC RMGZ 888 18 24 2100 888 = SML FOR RJH45 RJE73 =
24181 99437 10325 41/97 /2805 10070 40023 54000 80202 8//// 22212 00106 20101 328// 24014 = + RMGZ
1808 UTC VVV RCV DE RBIZ QSA? QTC. RBIZ DE RCV QSA1 QRV
1809 UTC RBIZ 733 17 24 2100 733 = FOR RJE73 RJH45 =
24181 99363 10269 22231 [faint]
1812 UTC VVV RCV DE RMNW QSA? QTC
1813 UTC RMNW 736 16 24 2100 736 = FOR RJE73 RJH45 =
24181 99431 10313 41/98 63407 10070 40183 57010 70321 86//// 22212 00080 2//// 24013 = + RMNW
1817 UTC RMNW DE RCV QTC
1819 UTC RCV 118 103 24 1748 118 = SML =
11111 91476 06722 38885 68537 13027 [BK fm RMNW]
2035 UTC VVV RMNW DE RCV QSA?
2037 UTC RCV DE RMNW QSA NO

8345 kHz, 24-01

0015 UTC VVV RCV DE RMCW QSA? QTC
0016 UTC RMCW 506 16 24 0313 506 = SML FOR RJE73 RJH45 RJH48 =
24001 99125 10447 22200 [very weak]
0247 UTC VVV RIW DE RMMA QSA?
0811 UTC VVV RMP DE RHI99 QSA? [very weak, sets up QYT4]
1804 UTC VVV RCV DE RMCW QSA? QTC
1805 UTC RMCW 573 16 24 2102 573 = SML FOR RJE73 RJH45 RJH48 =
24181 99125 10447 22200 [Weak]
2107 UTC VVV RCV DE RMCW QSA? QTC
2108 UTC RMCW 318 16 25 0003 318 = SML FOR RJE73 RJH45 RJH48 =
24211 99125 10447 22200 [Weak]

3395.5 kHz, 25-01, Simplex

0003 UTC VVV RCV DE RBIZ QSA? QTC [RCV very faint]
0004 UTC RBIZ 984 14 25 0300 984 = FOR RJE73 RJH45 =
25001 99359 10273 22232
0008 UTC VVV RCV DE RCJE QSA? QTC

0010 UTC RCJE 913 18 24 0301 913 = SML FOR RJH45 RJE73 =
 25001 99398 10256 43496 80423 20080 40140 57040 72166 22211 00060 20506 30000 88000 25014 = + RCJE

0017 UTC VVV RCV DE RMNW QSA? QTC

0018 UTC RMNW 912 16 25 0300 912 = FOR RJE73 RJH45 =
 25001 99436 10320 41/98 93408 10070 40172 57008 70222 89/// 22212 00080 299// 25013 = + RMNW

0053 UTC VVV RCV DE RMGZ QSA? QTC

0054 UTC RMGZ 603 18 25 0350 603 = SML FOR RJH45 RJE73 =
 25001 99441 10330 42/98 /3610 10050 40022 54000 70202 8///// 22212 00106 20101 336// 25014 = + RMGZ

0223 UTC VVV RMNW DE RCV QSA?

0224 UTC RCV DE RMNW QSA1 RMNW DE RCV QSU1 WRK

0225 UTC RMNW OK QAP RMNW DE RCV QSU1 RMNW OK QSU1

0233 UTC VVV RCV DE RBIZ QYT4 QSX 6204.5

0248 UTC RBIZ DE RCV QYT4 QSX 4937

0310 UTC VVV RCV DE RMNW QSA? QTC

0311 UTC RMNW 203 38 25 0600 203 =
 92025 39587 76319 87840 78297 26668 03200 00669 97616 83420
 75270 48936 49574 35808 76450 33894 57354 96869 66353 65765
 09773 83224 96138 71535 57881 30107 23037 07298 94346 37166
 42334 98555 45423 15513 08353 08582 09028 25037 = + RMNW

0318 UTC RCV QSL 203

0322 UTC VVV RMNW DE RCV QSA?

0327 UTC VVV RCV DE RMNW QSA?

0328 UTC RMNW DE RCV QAP RMNW OK QAP

0335 UTC VVV RCV DE RBIZ

0336 UTC RCV DE RBIZ QYT4 QSX 6766

8345 kHz, 25-01

0003 UTC VVV RCV DE RMCW QSA? QTC

0005 UTC RMCW 425 16 25 0301 425 = SML FOR RJE73 RJH45 RJH48 =
 25001 99125 10447 42/98 90906 10257 40147 57012 22200 00269 20302 25011 = + RMCW

0137 UTC VVV RCV DE RCIG QSA?

0238 UTC VVV RCV DE RCIG QSA? QTC

0239 UTC RCIG 239 17 25 0526 239 = SML =
 52566 17696 13312 93128 98192 59773 96531 42792 81473 90603
 47970 29361 21863 58995 80242 25015 = + RCIG

15586 kHz, 29-01

XXX XXX RJV RJV 13214 ZAKUPOCHNYY 2704 0713 K
 XXX XXX RJV RJV 77766 ABAZOSTOK 5711 3924 K

12464 kHz, 29-07

RMCW: Navy Ship Donuzlav	RMCW 13214 ZAKUPOCHNYY 1804 0713 K
RMCW: Navy Ship Donuzlav	RMCW 77766 ABAZOSTOK 5711 3924 K
RMCW: Navy Ship Donuzlav	RMCW 56689 IKSODOK 2232 5697 K
RMYZ: Navy Tug MB-304	RMYZ 13214 ZAKUPOCHNYY 1804 0713 K
RMYZ: Navy Tug MB-304	RMYZ 56689 IKSODOK 2232 5697 K
RMCW: Navy Ship Donuzlav	RMCW 71864 LECHEBNITSA 8444 5518 K
RMYZ: Navy Tug MB-304	RMYZ 71864 LECHEBNITSA 8444 5518 K
RMYZ: Navy Tug MB-304	RMYZ 89866 MALOMEROK 7705 9890 K
RMCW: Navy Ship Donuzlav	RMCW 89866 MALOMEROK 7705 9890 K
RMCW: Navy Ship Donuzlav	RMCW 23712 AVIAZAVOD 2195 9404 K

3395.5 kHz, 09-01, 2136 UTC RCV DE RHM81 QYT4 QLS
 8345 kHz, 27-01, 0835 UTC VVV RMP DE RHI99 QSA?

3395.5 kHz, 27-01

0010 UTC VVV RCV DE RMGZ QSA QTC
 0011 UTC RMGZ 785 18 27 0305 785 = SML FOR RJH45 RJE73 = 27001 99447 10335 42/97 /0509 11052 70025 54000
 70201 8//// 22200 00070 20103 305// 27014 = + RMGZ
 0114 UTC VVV RCV DE RBIZ QSA?
 0115 UTC RCV DE RBIZ QYT4 QSX 4316.5



M32b
Russian Naval Aviation
Aviatsiya Voennno-morskogo Flota Rossii

8816 kHz, 13-01

0708 UTC RJF94 RJC38 DE 30840 QTO 0700 QRD XLAA XLMV QBD 5000 QRE 0840 K
 QTH 6607 3913 QTR 0807 QRE XLAA 0840 K
 QQM XLAA 0843 SK

0953 UTC RJF94 RJC38 DE 30840 QTO 0945 QRD XLWF XLAA QBD 5000 QRE 1150 K
 QTH 6117 3845 QTR 1050 QRE XLWF 1140 K
 QQM XLWF 1142 SK

1309 UTC RJF94 RJC38 DE 30840 QTO 1300 QRD XLMV XLWF QBD 5200 QRE 1550 K
 QTH 6313 3546 QTR 1405 QBG 6100 K
 QTH 6622 3334 QTR 1505 QRE XLMV 1555 K
 QQM XLMV 1555 SK

8816 kHz, 16-01

0815 UTC RJF94 RJC38 DE 30840 QTO.0805 QRD XLLV XLMV QBD 5000 QRE 1100 K
 QQL ULPE 0910 QBG 5800 K
 QTH 6152 3244 QTR 1010 QTR XLLV 1100 K
 QQM XLLV 1058 SK

1210 UTC RJF94 RJC38 DE 30840 QTO 1200 QRD XLAA XLLV QRD 5400 QRE 1400 K
 QTH 6256 3556 QTR 1310 QRE XLAA 1400 K
 QQM XLAA 1403 SK

8816 kHz, 17-01

0751 UTC RJC38 RJF94 DE 75126 QTO 0742 QRD ULLP XLMV QBD 19800 QRE 1010 K
 QQL ULPE 0848 QBG 2300 K
 QQL XLPB 0920 QBD 16000 QRE ULLP 1010 K
 QQM ULLP 1008 SK

1445 UTC RJC38 RJF94 DE 30840 QTO 1430 QRD XUMU XLAA QBD 5400 QRE 1730 K
 QTH 6041 3836 QTR 1535 QBG 6100 K
 QTH 5706 3742 QTR 1620 QRE XUMU 1700 K
 QQM XUMU 1700 SK

2150 UTC RJC38 RJF94 DE 30840 QTO 2140 QRD XLMV XUMU QBD 5400 QRE 0140 K

8816 kHz, 18-01

0720 UTC RJF94 RJC38 DE 30841 QTO 0705 QRD XLWF XLMV QBD 5000 QRE 1005 K
 QTH 6351 3519 QTR 0818 QBG 5800 K
 QTH 6029 3729 QTR 0900 QRE XLWF 0930 K
 QQM XLWF 0926 SK

1046 UTC RJF94 RJC38 DE 30841 QTO 1035 QRD XLMV XLWF QBD 5000 QRE 1425 K
QAY XLPB 1145 QBG 5500 K
QQL ULPE 1245 QBD 3400 K
QQM XLMV 1355 SK

8816 kHz, 20-01

1015 UTC RJF94 .. DE 42233 QTO 1000 QRD XSSS XSCG QRE 1030 QBD 11000 K
QQM XSSS 1023 SK

1212 UTC RJF94 RJC38 DE 42233 QTO 1200 QRD XLLV XSSS QRE 1500 QBD 14000 K
QTH 5912 4244 QTR 1307 QBG 3700 QBD 10000 K
QTH 5952 3512 QTR 1410 QBD 7500 K
QQM XLLV 1452 SK

8018.5 kHz, 21-01, 0622 UTC RCY7 wkg RJF95
8040.5 kHz, 04-01, 0741 UTC RFJ95 wkg RAO98 and RCF7
3257.5 kHz, 18-01, 0942 UTC RFJ95 wkg RAH99
9097.5 kHz, 25-01, 0533 UTC RAO98 wkg RJF95



Tu-95MS Bear H net

8112 kHz, 16-01, 0840 UTC W-markers:
8112 kHz, 17-01, 1020 UTC W-markers
8112 kHz, 17-01, 1032 UTC IWW4 = 470 528 774 8.7 715 218 C ? K
8112 kHz, 17-01, 1040 UTC W-markers
8990 kHz, 19-01, 0533 UTC 3BYR 959 164 772 699 733 K
8994 kHz, 19-01, 0538 UTC NGA5 de LOPX BLIND = 487 733 227 = K
8112 kHz, 24-01, 0617 UTC NGA5 wkg IPKR WYSY DAKA VYOR FYPR (comms checks and QTCs)

8990 kHz, 24-01

0621 UTC ZO4G DE FYPR QTC K
FYPR = 417 606 427 514 K
FYPR C K
0622 UTC NGA5 de IPKR QTC =
700 817 657 980 323 864 864 639 872 340 452 332 K =
819 817 271 255 323 993 980 058 872 340 427 502 K =
819 817 271 168 323 168 666 052 872 340 427 981 K
0628 UTC NGA5 R 700 817 657 980 323 864 864 639 872 340 452 332 K =
819 817 271 255 323 993 980 058 872 340 427 502 K =
819 817 271 168 323 168 666 052 872 340 427 981 K
0643 UTC NGA5 DE WYSY K
WYSY DE NGA5 K
NGA5 DE WYSY QSA 3 QTC K
WYSY 862 237 094 460 437 623 K
NGA5 = 862 237 094 460 437 623 K

8990 kHz, 24-01

0648 UTC NGA5 DAKA K
IWW4 DE DAKA K
NGA5 DE IPKR K
IPKR DE NGA5 K
IPKR QTC K
NGA5 QRV K

0651 UTC IPKR =700 817 212 353 423 713 168 052 872 340 427 554 K
 NGA5 DE VYOR QTC K
 NGA5 DE VYOR QTC K
 NGA5 QRV K

0654 UTC VYOR = 425 437 608 278 960 027 736 112 (QRM) ...= 323 713 (QRM) ...
 167 BLIND GUHOR = 700 817 222 329

0656 UTC FYPR DE NGA5 K
 ZO4G DE FYPR SK

0658 UTC NGA5 DE VYOR QTC K
 NGA5 QRV K

0700 UTC DE VYOR = 425 437 608 278 926 427 732 K
 NGA5 = 425 437 608 278 926 427 732 K

0703 UTC VYOR C K

8990 kHz, 25-01,

0912 UTC NGA5 DE 4FGX QSA ? QTC K
 ZO4G DE 4FGX QSA ? K

0921 UTC NGA5 DE 4FGX QSA ? K
 NGA5 DE 4FGX QTC =
 581 305 020 222 454 425 K 0948Z
 NGA5 DE 4FGX QSA ? K
 NGA5 DE 4FGX QSA 3 QTC K
 NGA5 DE 4FGX = 380 492 K

REA4 / 1QRF net

7314 kHz, 25-01

1118 UTC XXX 1QRF 92054 MALYUTKA 6039 2088 UYeZDOKHALL 5049 8448
 1121 UTC XXX 1QRF 68021 FAGOBUKS 9815 1278 1124z XXX 1QRF 75227 BANAN 0551 8985
 FILATELIYA 9433 3186 1129z XXX 1QRF 3 [stopped]

1131 UTC 1QRF 35586 PEYSOSLAD 3106 9209 SVANSKIY 7701 1536

1153 UTC XXX 1QRF 16744 POYENYY 8251 2125

1159 UTC XXX 1QRF 86012 SPOROSTIKH 7001 7297 SMUSHKOVYY 9824 0343

1227 UTC XXX 1QRF 49551 KDADOSHIK 8760 4507

1240 UTC REA4 = 25 110 99900 24130 62196 70996 83502 11145 21188 71022 80011 = REA4

7314 kHz, 26-01

0935 UTC XXX 1QRF 98729 BARKOSERB 6159 6402 LEROSKOP 3553 2579

0939 UTC XXX 1QRF 07310 STERTYY 2040 3974

0940 UTC REA4 = 26 080 99900 25120 62596 87994 53302 11164 21180 71012 84012 = REA4

0946 UTC XXX 1QRF 93495 OGRUBELOST' 3773 3890

1040 UTC [REA4 message corrupted by data]

1047 UTC XXX 1QRF 20100 RAMOKLICH 8292 2873

1105 UTC XXX 1QRF 94641 YEPITIMIYNY 4643 4926

1108 UTC XXX 1QRF 53328 GORNOKAPO 1928 9762

1115 UTC XXX 1QRF 38662 STAZOTSENT 4209 8661 RAZBITYY 7493 6707

1143 UTC XXX 1QRF 95984 AMPEL'NY 8306 6122

1152 UTC XXX 1QRF 96848 NEDOMYSL'Ye 2647 4363

1225 UTC XXX 1QRF 30295 OLUKHOFRA 0637 9281 DEREVYASHKA 8496 7971

1230 UTC XXX 1QRF 43892 OBOYMA 2360 6726

1240 UTC REA4 = 26 110 99900 25120 62596 87994 53302 11164 21180 71012 84012 = REA4

1244 UTC XXX 1QRF 31825 BESSONNITSA 6774 1172 [REVS ends 1305z]

7314 kHz, 27-01

0840 UTC REA4 = 27 070 99900 26120 73842 88495 83505 11168 21181 77171 88020 = REA4

0940 UTC REA4 = 27 080 99900 26120 73842 88495 83505 11168 21181 77171 88020 = REA4

1040 UTC REA4 = 27 090 99900 26120 62596 89996 51103 11166 21192 61022 83021 = REA4

1140 UTC REA4 = 27 100 99900 26120 625969 [sic] 89996 51103 11166 21192 61022 83021 = REA4

1240 UTC REA4 = 27 110 99900 26130 62596 89965 51003 11166 21192 71024 83023 = REA4

7313 kHz, 27-01

0810 UTC i.p. ЗКО?
 0811 UTC ZDS ГНГШ ZZT КЛЖЛККЖМММММЛЛКМЛММММЛЛМЛМЛ КЖЖМДХЧРФФХИАОЗХБНЬМ
 0814 UTC ZDS ГНГШ ZZT КЖМЛККЖЖКМЛМММММЖЛЖЖКМЖЖМЖЛ ЖЛЛЦФХИЬФНЧОЦЬЧЯОСКЩ
 0819 UTC ГДГВЙ БХЮЛГ ЪЛГЦ СШЧЮЙ ЯМВРП
 ЗГЧВЙ КЛКФЯ БОЙЗЫ ЪЬЧЧ НТУСН
 ГХСМД ЪНЫАН ГПЧУШ УСАКЛ НОЖЮЬ
 0833 UTC ТФФЙНЦВЫТЦИБХРШЬРШНМНФНЮОЫЗ [23 chirps 1.2 sec long] [1 tone 1.2 sec long] ПОШ
 0835 UTC ДХЬНИФЧЖНАТТД [25 chirps 1.2 sec long] [1 tone 1.2 sec long] ЯПМ
 0836 UTC ЯПАГВЫЙЯУЛТРТМТЖДЧ [25 chirps 1.2 sec long] [1 tone 1.2 sec long] ЯЯЬ
 0837 UTC ЗДНЗМЛКПВ [36 chirps 1.8 sec long] [1 tone 1.2 sec long] ЯВГ
 0838 UTC РБЩШН [15 chirps 0.8 sec long]
 0839 UTC ZDS ГНГШ ZZT ЛЖЖЛЖЖЖМЖЖЖЖКММЖЖККМЛКМ БЮДВЧБКШЮАВХЧ
 [19 chirps 1 sec long] [1 tone 1.2 sec long] ПЯЬ
 0840 UTC ЩУМТХАЫХБЬДХЬС
 0841 UTC ZKM
 0843 UTC ZCS ZKM
 0846 UTC ЙОУКЙС [24 chirps 1.2 sec long] [1 tone 1.2 sec long] ПВА
 0847 UTC ЪХНЦ [17 chirps 0.9 sec long] [1 tone 1.2 sec long] ПЕЧ
 0848 UTC ЛЬЛРКЛТПРДЩ

LOGS SECTION

Code	Freq	Date	UTC	Day	Details	Mode	ctrb
---	4294.5	8-1	2302	Sun	i.p. NR 5 CK 7 = 70227 84215 34099 33094 341.1 631584 8662 AR OK GB SK	CW	(JPL-J)
---	7920	9-1	0920	Mon	X2M i.p. 17 CK 190 CK 190 TIME 1619 TIME 1619 DATE 0901 DATE 0901 = NT6U5 4NT6U T63T4 ... on 7920//8250//8411 kHz	CW	(JPL-NZL)
---	8250	9-1	0920	Mon	X2M i.p. 17 CK 190 CK 190 TIME 1619 TIME 1619 DATE 0901 DATE 0901 = NT6U5 4NT6U T63T4 ... on 7920//8250//8411 kHz	CW	(JPL-NZL)
---	8411	9-1	0920	Mon	X2M i.p. 17 CK 190 CK 190 TIME 1619 TIME 1619 DATE 0901 DATE 0901 = NT6U5 4NT6U T63T4 ... on 7920//8250//8411 kHz	CW	(JPL-NZL)
---	7920	12-1	0931	Thu	CQ (x3) de X2M (x2) VVV MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1201 DATE 1201 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8250	12-1	0931	Thu	CQ (x3) de X2M (x2) VVV MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1201 DATE 1201 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8410	12-1	0931	Thu	CQ (x3) de X2M (x2) VVV MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1201 DATE 1201 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	7920	14-1	0906	Sat	X2M i.p. CK 100 CK 100 TIME 16.6 TIME 16.6 DATE 1401 DATE 1401 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8250	14-1	0906	Sat	X2M i.p. CK 100 CK 100 TIME 16.6 TIME 16.6 DATE 1401 DATE 1401 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8410	14-1	0906	Sat	X2M i.p. CK 100 CK 100 TIME 16.6 TIME 16.6 DATE 1401 DATE 1401 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	7920	15-1	0900	Sun	X2M i.p. on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8250	15-1	0900	Sun	X2M i.p. on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8410	15-1	0900	Sun	X2M i.p. on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	7920	17-1	0918	Tue	CQ (x3) DE X2M (x2) VVV (x3) MSG ENG 21 21 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1701 DATE 1701 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8250	17-1	0918	Tue	CQ (x3) DE X2M (x2) VVV (x3) MSG ENG 21 21 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1701 DATE 1701 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8410	17-1	0918	Tue	CQ (x3) DE X2M (x2) VVV (x3) MSG ENG 21 21 CK 100 CK 100 TIME 1631 TIME 1631 DATE 1701 DATE 1701 = on	CW	(JPL-NZL)

					7920//8250//8410 kHz		
---	7920	18-1	0850	Wed	.. 11 CK 100 CK 100 TIME 1601 TIME 1601 DATE 1801 DATE 1801 = on 7920//8250//8410 kHz	CW	(JPL-HK)
---	8250	18-1	0850	Wed	.. 11 CK 100 CK 100 TIME 1601 TIME 1601 DATE 1801 DATE 1801 = on 7920//8250//8410 kHz	CW	(JPL-HK)
---	8410	18-1	0850	Wed	.. 11 CK 100 CK 100 TIME 1601 TIME 1601 DATE 1801 DATE 1801 = on 7920//8250//8410 kHz	CW	(JPL-HK)
---	7920	19-1	0853	Thu	CQ DE X2M VVV MSG ENG MSG ENG 21 21 CK 100 CK 100 TIME 1... TIME ..34 DATE 2001 DATE 2001 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8250	19-1	0853	Thu	CQ DE X2M VVV MSG ENG MSG ENG 21 21 CK 100 CK 100 TIME 1... TIME ..34 DATE 2001 DATE 2001 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8410	19-1	0853	Thu	CQ DE X2M VVV MSG ENG MSG ENG 21 21 CK 100 CK 100 TIME 1... TIME ..34 DATE 2001 DATE 2001 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	7920	23-1	0909	Mon	X2M i.p. TIME 16.. DATE 2301 DATE 2301 = T6734 73 on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8250	23-1	0909	Mon	X2M i.p. TIME 16.. DATE 2301 DATE 2301 = T6734 73 on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8410	23-1	0909	Mon	X2M i.p. TIME 16.. DATE 2301 DATE 2301 = T6734 73 on 7920//8250//8410 kHz	CW	(JPL-NZL)
DPRK	14348.5	17-1	0930	Tue	North Korean diplo	DPRK-ARQ 600/600 LSB	(IARUMS)
E06	16350	5-1	0700	Thu	139 684 102 51571 86298 86641 16497 44233 ...	USB	(AB-RUS)
E06	4836	5-1	2028	Thu	321 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/PW2)
E06	4754	6-1	2130	Fri	472 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP shutdown sound. Ops chat	USB	(AB/Danix/Sh)
E06	13945	19-1	0600	Thu	139 684 102 51571 86298 86641 ...	USB	(AB/ES)
E06	16350	19-1	0700	Thu	139 684 102 51571 86298 86641 ...	USB	(AB/ES/HFD)
E06	4836	19-1	2030	Thu	321 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/MPJ)
E06	13945	20-1	0600	Fri	139 684 102 51571 86298 86641 ...	USB	(AB)
E06	16350	20-1	0700	Fri	139 684 102 51571 86298 86641 ...	USB	(AB)
E06	4760	20-1	2130	Fri	472 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB)
E07	8123	1-1	0700	Sun	134 134 134 000	USB	(AB)
E07	9323	1-1	0720	Sun	134 134 134 000	USB	(AB)
E07	8194	4-1	1800	Wed	172 172 172 000	AM	(AB/HFD)
E07	6794	4-1	1820	Wed	172 172 172 000	AM	(AB/HFD)
E07	6776	4-1	2000	Wed	770 770 770 000	USB	(AB)
E07	5767	4-1	2020	Wed	770 770 770 000	USB	(AB)
E07	6777	5-1	2110	Thu	744 744 744 000	USB	(HFD)
E07	5447	5-1	2130	Thu	744 744 744 000	USB	(HFD)
E07	13523	6-1	1100	Fri	516 516 516 000	USB	(AB/MPJ)
E07	12123	6-1	1120	Fri	516 516 516 000	USB	(AB)
E07	8123	7-1	0700	Sat	134 1 205 43 62740 90357 33069 ... 73940 13792 49341 000 000	USB	(AB)
E07	9323	7-1	0720	Sat	134 1 205 43 62740 90357 33069 ... 73940 13792 49341 000 000	USB	(AB)
E07	10423	7-1	0740	Sat	134 1 205 43 62740 90357 33069 ... 73940 13792 49341 000 000	USB	(AB)
E07	8123	8-1	0700	Sun	134 1 205 43 62740 90357 33069 ... 73940 13792 49341 000 000	USB	(AB)
E07	9323	8-1	0720	Sun	134 1 205 43 62740 90357 33069 ... 73940 13792 49341 000 000	USB	(AB)
E07	10423	8-1	0740	Sun	134 1 205 43 62740 90357 33069 ... 73940 13792 49341 000 000	USB	(AB)
E07	8194	8-1	1800	Sun	172 172 172 000	USB	(AB)
E07	6794	8-1	1820	Sun	172 172 172 000	USB	(AB)
E07	6776	9-1	2000	Mon	770 1 680 47 37120 42309 98006 ... 95797 36913 41736 000 000	USB	(AB)
E07	5767	9-1	2020	Mon	770 1 680 47 37120 42309 98006 ... 95797 36913 41736	USB	(AB)

					000 000		
E07	5076	9-1	2040	Mon	770 1 680 47 37120 42309 98006 ... 95797 36913 41736 000 000	USB	(AB)
E07	13523	10-1	1100	Tue	516 1 2330 97 07788 52143 86472 ... 46496 51617 37796 000 000	USB	(AB)
E07	12123	10-1	1120	Tue	516 1 2330 97 07788 52143 86472 ... 46496 51617 37796 000 000	USB	(AB)
E07	10623	10-1	1140	Tue	516 1 2330 97 07788 52143 86472 ... 46496 51617 37796 000 000	USB	(AB)
E07	6776	11-1	2000	Wed	770 1 680 47 37120 42309 98006 ... 95797 36913 41736 000 000	USB	(AB/MPJ/HFD)
E07	5767	11-1	2020	Wed	770 1 680 47 37120 42309 98006 ... 95797 36913 41736 000 000	USB	(AB/HFD)
E07	5076	11-1	2040	Wed	770 1 680 47 37120 42309 98006 ... 95797 36913 41736 000 000	USB	(AB/HFD)
E07	13523	13-1	1100	Fri	516 1 2330 97 07788 52143 86472 ... 46496 51617 37796 000 000	USB	(AB)
E07	12123	13-1	1120	Fri	516 1 2330 97 07788 52143 86472 ... 46496 51617 37796 000 000	USB	(AB)
E07	10623	13-1	1140	Fri	516 1 2330 97 07788 52143 86472 ... 46496 51617 37796 000 000	USB	(AB/HFD)
E07	8123	14-1	0700	Sat	134 134 134 000	USB	(AB/ES/HFD)
E07	9323	14-1	0720	Sat	134 134 134 000	USB	(AB/ES/HFD)
E07	8194	15-1	1800	Sun	172 172 172 000	USB	(MPJ)
E07	6776	16-1	2000	Mon	770 770 770 000	USB	(AB/MPJ)
E07	5767	16-1	2020	Mon	770 770 770 000	USB	(AB/MPJ)
E07	13523	17-1	1100	Tue	516 516 516 000	USB	(AB/RL- HOL/ES)
E07	12123	17-1	1120	Tue	516 516 516 000	USB	(AB/ES)
E07	8194	18-1	1800	Wed	172 172 172 000	USB	(AB)
E07	6794	18-1	1820	Wed	172 172 172 000	USB	(AB)
E07	6776	18-1	2000	Wed	770 770 770 000	USB	(AB)
E07	5767	18-1	2020	Wed	770 770 770 000	USB	(AB/MPJ)
E07	6777	19-1	2110	Thu	744 744 744 000	USB	(AB)
E07	5449	19-1	2130	Thu	744 744 744 000	USB	(AB)
E07	13523	20-1	1100	Fri	516 516 516 000	USB	(AB/ES/MPJ)
E07	12123	20-1	1120	Fri	516 516 516 000	USB	(AB/RL/MPJ)
E07	8123	21-1	0700	Sat	134 1 534 30 42942 89212 04191 ... 69156 57157 92053 000 000	USB	(AB/ES)
E07	9323	21-1	0720	Sat	134 1 534 30 42942 89212 04191 ... 69156 57157 92053 000 000	USB	(AB)
E07	10423	21-1	0740	Sat	134 1 534 30 42942 89212 04191 ... 69156 57157 92053 000 000	USB	(AB)
E07	8123	22-1	0700	Sun	134 1 534 30 42942 89212 04191 ... 69156 57157 92053 000 000	USB	(AB)
E07	9323	22-1	0720	Sun	134 1 534 30 42942 89212 04191 ... 69156 57157 92053 000 000	USB	(AB)
E07	10423	22-1	0740	Sun	134 1 534 30 42942 89212 04191 ... 69156 57157 92053 000 000	USB	(AB)
E07	6776	23-1	2000	Mon	770 1 631 60 91292 56996 53418 ... 79016 24205 37895 000 000	USB	(AB/MPJ)
E07	5767	23-1	2020	Mon	770 1 631 60 91292 56996 53418 ... 79016 24205 37895 000 000	USB	(AB)
E07	5067	23-1	2040	Mon	770 1 631 60 91292 56996 53418 ... 79016 24205 37895 000 000	USB	(AB)
E07	13523	24-1	1100	Tue	516 1 8190 89 27978 72720 37473 ... 51169 17279 69881 000 000	USB	(AB/ES)
E07	12123	24-1	1120	Tue	516 1 8190 89 27978 72720 37473 ... 51169 17279 69881 000 000	USB	(AB/MPJ/ES)
E07	10623	24-1	1140	Tue	516 1 8190 89 27978 72720 37473 ... 51169 17279 69881 000 000	USB	(AB/MPJ/ES)
E07	8194	25-1	1800	Wed	172 172 172 000	USB	(AB/MPJ/Topol)
E07	6794	25-1	1820	Wed	172 172 172 000	USB	(AB)

E07	6776	25-1	2000	Wed	770 1 631 60 91292 56996 53418 ... 79016 24205 37895 000 000	USB	(AB/MPJ)
E07	5767	25-1	2020	Wed	770 1 631 60 91292 56996 53418 ... 79016 24205 37895 000 000	USB	(AB/MPJ)
E07	5067	25-1	2040	Wed	770 1 631 60 91292 56996 53418 ... 79016 24205 37895 000 000	USB	(AB/MPJ)
E07	6777	26-1	2110	Thu	744 744 744 000	USB	(AB)
E07	5449	26-1	2130	Thu	744 744 744 000	USB	(AB)
E07	13523	27-1	1100	Fri	516 1 8190 89 27978 72720 37473 ... 51169 17279 69881 000 000	USB	(AB/RL/MPJ)
E07	12123	27-1	1120	Fri	516 1 8190 89 27978 72720 37473 ... 51169 17279 69881 000 000	USB	(AB/MPJ)
E07	10623	27-1	1140	Fri	516 1 8190 89 27978 72720 37473 ... 51169 17279 69881 000 000	USB	(AB/MPJ)
E07	8123	28-1	0700	Sat	134 1 281 46 42906 17966 52900 ... 12523 89648 79282 000 000	USB	(AB/ES)
E07	9323	28-1	0720	Sat	134 1 281 46 42906 17966 52900 ... 12523 89648 79282 000 000	USB	(AB/ES)
E07	10423	28-1	0740	Sat	134 1 281 46 42906 17966 52900 ... 12523 89648 79282 000 000	USB	(AB/ES)
E07	8123	29-1	0700	Sun	134 1 281 46 42906 17966 52900 ... 12523 89648 79282 000 000	USB	(AB)
E07	9323	29-1	0720	Sun	134 1 281 46 42906 17966 52900 ... 12523 89648 79282 000 000	USB	(AB/BvR)
E07	10423	29-1	0740	Sun	134 1 281 46 42906 17966 52900 ... 12523 89648 79282 000 000	USB	(AB/BvR)
E07	8194	29-1	1800	Sun	172 172 172 000	AM	(AB)
E07	6794	29-1	1820	Sun	172 172 172 000	AM	(AB)
E07	6776	30-1	2000	Mon	770 1 117 50 06525 25895 03433 ... 82511 23593 27684 000 000	USB	(AB/RP- MD/MPJ/PW2/ HFD)
E07	5767	30-1	2020	Mon	770 1 117 50 06525 25895 03433 ... 82511 23593 27684 000 000	USB	(AB/MP/HFDJ)
E07	5067	30-1	2040	Mon	770 1 117 50 06525 25895 03433 ... 82511 23593 27684 000 000	USB	(AB/MPJ/HFD)
E07	13523	31-1	1100	Tue	516 516 516 000	USB	(AB/ES)
E07	12123	31-1	1120	Tue	516 516 516 000	USB	(AB/ES)
E07a	5877	4-1	2100	Wed	825 825 825 000	USB	(AB/MPJ/HFD)
E07a	5277	4-1	2120	Wed	825 825 825 000	USB	(AB/HFD)
E07a	5111	5-1	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	5-1	0550	Thu	189 189 189 000	USB	(AB)
E07a	7632	6-1	1610	Fri	688 688 688 000	USB	(AB/HFD)
E07a	6832	6-1	1630	Fri	688 688 688 000	USB	(AB/MPJ/HFD)
E07a	11123	7-1	0900	Sat	114 114 114 000	USB	(AB)
E07a	12123	7-1	0920	Sat	114 114 114 000	USB	(AB)
E07a	5877	11-1	2100	Wed	825 825 825 000	USB	(AB/MPJ/RL)
E07a	5277	11-1	2120	Wed	825 825 825 000	USB	(AB/RL)
E07a	5111	12-1	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	12-1	0550	Thu	189 189 189 000	USB	(AB)
E07a	7632	13-1	1610	Fri	688 688 688 000	USB	(AB)
E07a	6832	13-1	1630	Fri	688 688 688 000	USB	(AB/BvR)
E07a	11123	14-1	0900	Sat	114 114 114 000	USB	(AB/HFD)
E07a	12123	14-1	0920	Sat	114 114 114 000	USB	(AB/HFD)
E07a	5877	18-1	2100	Wed	825 1 16258 8834 67 76867 95065 94445 ... 75644 73239 56392 000 000	USB	(AB/RL)/HFD
E07a	5277	18-1	2120	Wed	825 1 16258 8834 67 76867 95065 94445 ... 75644 73239 56392 000 000	USB	(AB)
E07a	4577	18-1	2140	Wed	825 1 16258 8834 67 76867 95065 94445 ... 75644 73239 56392 000 000	USB	(AB)
E07a	5111	19-1	0530	Thu	189 1 16258 8834 67 76867 95065 94445 ... 75644 73239 56392 000 000	USB	(AB/ES)
E07a	5811	19-1	0550	Thu	189 1 16258 8834 67 76867 95065 94445 ... 75644 73239 56392 000 000	USB	(AB/ES)

E07a	6911	19-1	0610	Thu	189 1 16258 8834 67 76867 95065 94445 ... 75644 73239 56392 000 000	USB	(AB/ES)
E07a	7632	20-1	1610	Fri	688 688 688 000	USB	(AB/GHn/MPJ)
E07a	6832	20-1	1630	Fri	688 688 688 000	USB	(AB/RL/MPJ)
E07a	11123	21-1	0900	Sat	114 114 114 000	USB	(AB/ES)
E07a	12123	21-1	0920	Sat	114 114 114 000	USB	(AB/ES)
E07a	5877	25-1	2100	Wed	825 825 825 000	USB	(AB/MPJ)
E07a	5277	25-1	2120	Wed	825 825 825 000	USB	(AB/RL)
E07a	5111	26-1	0530	Thu	189 189 189 000	USB	(AB/ES/HFD)
E07a	5811	26-1	0550	Thu	189 189 189 000	USB	(AB/ES/HFD)
E07a	7632	27-1	1610	Fri	688 688 688 000	USB	(AB/GHn/MPJ)
E07a	6832	27-1	1630	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	11123	28-1	0900	Sat	114 114 114 000	USB	(AB)
E07a	12123	28-1	0920	Sat	114 114 114 000	USB	(AB)
E11	10429	1-1	0805	Sun	312/00	USB	(AB)
E11	4505	1-1	1605	Sun	233/00	USB	(AB)
E11	10448	1-1	1625	Sun	976/00	USB	(AB)
E11	5082	2-1	0450	Mon	412/00	USB	(AB)
E11	7371	2-1	0820	Mon	434/00	USB	(AB)
E11	9446	2-1	0900	Mon	532/00	USB	(AB)
E11	12153	3-1	1045	Tue	575/00	USB	(AB/MPJ)
E11	7984	3-1	1205	Tue	461/00	USB	(AB)
E11	4505	3-1	1605	Tue	238/00	USB	(AB)
E11	9446	4-1	0900	Wed	536/00	USB	(AB)
E11	9950	4-1	0930	Wed	270/00	USB	(AB)
E11	7984	4-1	1205	Wed	466/00	USB	(AB/MPJ)
E11	18030	4-1	1300	Wed	133/00	USB	(AB)
E11	10448	4-1	1625	Wed	974/00	USB	(GHn/MPJ/HFD)
E11	8545	4-1	1730	Wed	408/00	USB	(AB)
E11	7840	5-1	0645	Thu	515/00	USB	(AB)
E11	16112	5-1	0745	Thu	338/00	USB	(AB)
E11	7371	5-1	0820	Thu	432/00	USB	(AB)
E11	8680	5-1	1300	Thu	583/00	USB	(MPJ)
E11	5082	5-1	1730	Thu	414/00	USB	(AB/MPJ)
E11	16112	6-1	0730	Fri	351/00	USB	(AB)
E11	8800	6-1	1000	Fri	309/00	USB	(AB)
E11	16335	6-1	1650	Fri	927/00	USB	(AB/MPJ)
E11	6304	6-1	2000	Fri	574/00	USB	(AB/MPJ)
E11	9443	7-1	1705	Sat	392/00	USB	(GHn/MPJ)
E11	8545	7-1	1730	Sat	408/00	USB	(AB/MPJ)
E11	4505	8-1	1605	Sun	237/00	USB	(GHn/MPJ)
E11	10448	8-1	1625	Sun	978/00	USB	(Ghn/MPJ)
E11	10213	9-1	0745	Mon	261/00	USB	(AB)
E11	7371	9-1	0820	Mon	438/00	USB	(AB)
E11	9446	9-1	0900	Mon	535/00	USB	(AB)
E11	12153	10-1	1045	Tue	577/00	USB	(AB)
E11	7984	10-1	1205	Tue	461/00	USB	(AB)
E11	14666	10-1	1345	Tue	915/00	USB	(AB)
E11	4504	10-1	1605	Tue	231/00	USB	(AB/MPJ)
E11	8545	10-1	1737	Tue	i.p.	USB	(BvR)
E11	10429	11-1	0805	Wed	313/00	USB	(AB)
E11	9446	11-1	0900	Wed	535/00	USB	(AB)
E11	7984	11-1	1205	Wed	464/00	USB	(AB)
E11	6849	12-1	0530	Thu	641/00	USB	(AB)
E11	16112	12-1	0745	Thu	334/00	USB	(AB)
E11	5409	12-1	1530	Thu	268/00	USB	(AB)
E11	6304	13-1	2000	Fri	574/00	USB	(MPJ)
E11	14666	14-1	1345	Sat	917/00	USB	(MPJ)
E11	4505	15-1	1605	Sun	230/00	USB	(AB)
E11	11107	15-1	2005	Sun	367/00	USB	(MPJ)
E11	11107	15-1	2005	Sun	367/00	USB	(AB)

E11	9446	16-1	0900	Mon	530/00	USB	(AB)
E11	7840	17-1	0645	Tue	511/00	USB	(AB)
E11	8800	17-1	1000	Tue	300/00	USB	(AnEur)
E11	8800	17-1	1000	Tue	300/00	USB	(ES)
E11	12153	17-1	1045	Tue	575/00	USB	(AB)
E11	18030	17-1	1305	Tue	133/00	USB	(AB)
E11	12067	17-1	1925	Tue	523/00	USB	(MPJ)
E11	10429	18-1	0805	Wed	314/00	USB	(AB)
E11	9446	18-1	0900	Wed	538/00	USB	(AB)
E11	9950	18-1	0930	Wed	275/00	USB	(AB)
E11	18030	18-1	1305	Wed	133/00	USB	(AB)
E11	10448	18-1	1625	Wed	975/00	USB	(AB)
E11	8545	18-1	1730	Wed	403/00	USB	(AB/MPJ)
E11	6849	19-1	0530	Thu	647/00	USB	(AB)
E11	7840	19-1	0645	Thu	519/00	USB	(AB)
E11	12924	19-1	0710	Thu	490/00	USB	(AB)
E11	9950	19-1	0930	Thu	276/00	USB	(AB)
E11	8680	19-1	1300	Thu	581/00	USB	(AB/ES)
E11	5409	19-1	1530	Thu	264/00	USB	(AB/RL-HOL/MPJ)
E11	9130	20-1	0710	Fri	630/00	USB	(AB)
E11	16112	20-1	0730	Fri	355/00	USB	(AB)
E11	8800	20-1	1000	Fri	300/00	USB	(AB/ES)
E11	6304	20-1	2000	Fri	575/00	USB	(AB/MPJ)
E11	12924	21-1	0710	Sat	491/00	USB	(AB)
E11	8680	21-1	1300	Sat	585/00	USB	(AB)
E11	9443	21-1	1705	Sat	394/00	USB	(AB/MPJ)
E11	8545	21-1	1730	Sat	403/00	USB	(AB/MPJ)
E11	16112	22-1	0730	Sun	358/00	USB	(AB/BvR)
E11	10429	22-1	0805	Sun	311/00	USB	(AB)
E11	10448	22-1	1625	Sun	974/00	USB	(AB/MPJ)
E11	5082	23-1	0450	Mon	410/00	USB	(AB)
E11	6849	23-1	0530	Mon	646/00	USB	(AB)
E11	10213	23-1	0745	Mon	268/00	USB	(AB)
E11	11100	23-1	0820	Mon	432/00	USB	(AB)
E11	7840	24-1	0645	Tue	519/00	USB	(AB)
E11	9130	24-1	0710	Tue	631/00	USB	(AB)
E11	16112	24-1	0745	Tue	338/00	USB	(AB)
E11	8800	24-1	1000	Tue	308/00	USB	(AB)
E11	7984	24-1	1205	Tue	460/00	USB	(AB/MPJ)
E11	14666	24-1	1345	Tue	919/00	USB	(MPJ)
E11	4505	24-1	1605	Tue	238/00	USB	(AB)
E11	5779	25-1	0315	Wed	252/00	USB	(AB)
E11	9950	25-1	0930	Wed	279/00	USB	(AB)
E11	7984	25-1	1205	Wed	465/00	USB	(AB)
E11	10448	25-1	1625	Wed	977/00	USB	(AB)
E11	8545	25-1	1730	Wed	400/00	USB	(AB/RL)
E11	5779	26-1	0315	Thu	253/00	USB	(AB)
E11	6849	26-1	0530	Thu	649/00	USB	(AB)
E11	7840	26-1	0645	Thu	515/00	USB	(AB)
E11	12924	26-1	0710	Thu	498/00	USB	(AB)
E11	16112	26-1	0745	Thu	332/00	USB	(AB)
E11	11100	26-1	0820	Thu	434/00	USB	(AB)
E11	9950	26-1	0930	Thu	277/00	USB	(AB/ES)
E11	5409	26-1	1530	Thu	267/00	USB	(AB/MPJ)
E11	5082	26-1	1730	Thu	418/00	USB	(AB/MPJ)
E11	9130	27-1	0710	Fri	636/00	USB	(AB)
E11	16112	27-1	0730	Fri	351/00	USB	(AB/HFD)
E11	8800	27-1	1000	Fri	305/00	USB	(AB)
E11	20167	27-1	1225	Fri	521/00	USB	(AB-I)
E11	8680	28-1	1300	Sat	585/00	USB	(AB/MPJ)
E11	9443	28-1	1705	Sat	390/00	USB	(MPJ)

E11	8545	28-1	1730	Sat	402/00	USB	(MPJ)
E11	16112	29-1	0730	Sun	352/00	USB	(AB)
E11	10429	29-1	0805	Sun	311/00	USB	(AB/BvR)
E11	4505	29-1	1605	Sun	230/00	USB	(AB)
E11	10448	29-1	1625	Sun	978?/00	USB	(AB)
E11	5082	30-1	0450	Mon	410/00	USB	(AB)
E11	6849	30-1	0530	Mon	640/00	USB	(AB)
E11	10213	30-1	0745	Mon	264/00	USB	(AB)
E11	11100	30-1	0820	Mon	430/00 (should be the same message as F11 at 0800/0805 UTC)	USB	(AB)
E11	9446	30-1	0900	Mon	532/00	USB	(AB)
E11	12924	30-1	1745	Mon	248/00	USB	(AB)
E11	7840	31-1	0645	Tue	512/00	USB	(AB)
E11	9130	31-1	0710	Tue	631/00	USB	(AB)
E11	8800	31-1	1000	Tue	304/00	USB	(AB/ES)
E11	12153	31-1	1045	Tue	570/00	USB	(AB)
E11	7984	31-1	1205	Tue	462/00	USB	(AB/ES)
E11	4505	31-1	1605	Tue	232/00	USB	(AB)
E11	20167	6-1	1225	Fri	525/00	USB	(PW2)
E11a	6849	1-1	0530	Sun	643/39 Attention 48694 87200 45044 ... 97169 27066 61212 Attention, rpt msg, out	USB	(AB)
E11a	13046	2-1	0600	Mon	183/38 Attention ...	USB	(AB)
E11a	10213	2-1	0745	Mon	268/30 Attention ...	USB	(AB/HFD)
E11a	10429	4-1	0805	Wed	319/39 Attention 43707 01516 58643 ... 74145 97889 52850 Attention, rpt msg, out	USB	(AB)
E11a	6849	5-1	0530	Thu	643/39 Attention 48694 87200 45044 ... 97169 27066 61212 Attention, rpt msg, out	USB	(AB)
E11a	12924	5-1	0710	Thu	Message	USB	(AB)
E11a	5409	5-1	1530	Thu	268/30 Attention 12321 76922 20573 ... 85029 02569 70248 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	12924	7-1	0710	Sat	491/31 Attention ...	USB	(AB)
E11a	14666	7-1	1345	Sat	911/35 Attention 63233 13666 84227 ... 97976 51179 12355 Attention, rpt msg, out	USB	(AB)
E11a	10429	8-1	0805	Sun	319/39 Attention 43707 01516 58643 ... 74145 97889 52850 Attention, rpt msg, out	USB	(AB)
E11a	7840	10-1	0645	Tue	512/39 Attention 14240 41987 94713 ... 41293 80838 65348 Attention, rpt msg, out	USB	(AB)
E11a	8800	10-1	1000	Tue	304/40 Attention 56616 25346 29162 ... 11686 42793 25477 Attention, rpt msg, out	USB	(AB)
E11a	12067	10-1	1925	Tue	521/40 Attention 64363 02052 03737 ...	USB	(AB-I)
E11a	9950	11-1	0930	Wed	273/32 Attention 77214 41571 74526 ... 94269 44588 97660 Attention, rpt msg, out	USB	(AB)
E11a	10448	11-1	1625	Wed	977/37 but too weak to copy	USB	(MPJ)
E11a	8545	11-1	1730	Wed	406/32 Attention 15830 21602 29953 ... 72072 20803 42493 Attention, rpt msg, out	USB	(AB-UKR/MPJ)
E11a	7840	12-1	0645	Thu	512/39 Attention 14240 41987 94713 ... 41293 80838 65348 Attention, rpt msg, out	USB	(AB)
E11a	9950	12-1	0930	Thu	273/32 Attention 77214 41571 74526 ... 94269 44588 97660 Attention, rpt msg, out	USB	(AB)
E11a	8680	12-1	1300	Thu	585/39 Attention 06627 33983 78559 ... 87506 15537 93568 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	8800	13-1	1000	Fri	304/40 Attention 56616 25346 29162 ... 11686 42793 25477 Attention, rpt msg, out	USB	(AB)
E11a	8680	14-1	1300	Sat	585/39 Attention 06627 33983 78559 ... 87506 15537 93568 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	8545	14-1	1730	Sat	406/32 Attention 15830 21602 29953 70006 ... 72072 20803 42493 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	5082	16-1	0450	Mon	418/37 Attention ...	USB	(AB)
E11a	11100	16-1	0820	Mon	438/33 Attention 87233 78042 55321 ... 02883 40278 23671 Attention, rpt msg, out	USB	(AB)
E11a	16112	17-1	0745	Tue	333/32 Attention ...	USB	(AB)
E11a	7984	17-1	1205	Tue	465/34 Attention 40259 32718 21349 ... 28026 49052 72286 Attention, rpt msg, out	USB	(AB)

E11a	4505	17-1	1605	Tue	230/37 Attention 78089 43617 10064 80176 79692 ... 84034 05551 75467 99179 14241 out	USB	(MPJ)
E11a	7984	18-1	1205	Wed	465/34 Attention 40259 32718 21349 ... 28026 49052 72286 Attention, rpt msg, out	USB	(AB)
E11a	16112	19-1	0745	Thu	332/32 Attention 88361 93359 73744 ... 29716 68694 66822 Attention, rpt msg, out	USB	(AB)
E11a	11100	19-1	0820	Thu	438/33 Attention 87233 78042 55321 ... 02883 40278 23671 Attention, rpt msg, out	USB	(AB)
E11a	5082	19-1	1730	Thu	418/37 Attention 81784 99055 97986 54380 78152 ... 79474 17929 00630 05124 34738 out	USB	(MPJ)
E11a	20167	20-1	1225	Fri	Message	USB	(AB)
E11a	4505	22-1	1605	Sun	230/37 Attention 78089 43617 10064 ... 75467 99179 14241 Attention, rpt msg, out	USB	(AB/BvR/MPJ)
E11a	9446	23-1	0900	Mon	535/32 Attention 03778 52287 89459 ... 86223 16398 83399 Attention, rpt msg, out	USB	(AB)
E11a	12153	24-1	1045	Tue	579/33 Attention 55992 40241 34654 ... 61342 39011 89894 Attention, rpt msg, out	USB	(AB/MPJ/ES)
E11a	18030	24-1	1305	Tue	131/31 Attention 74540 81002 33664 ... 83494 52376 09772 Attention, rpt msg, out	USB	(AB)
E11a	9446	25-1	0900	Wed	535/32 Attention 03778 52287 89459 ... 86223 16398 83399 Attention, rpt msg, out	USB	(AB)
E11a	18030	25-1	1305	Wed	131/31 Attention 74540 81002 33664 ... 83494 52376 09772 Attention, rpt msg, out	USB	(AB)
E11a	6304	27-1	2000	Fri	579/33 Attention 55992 40241 34654 ... 61342 39011 89894 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	12924	29-1	1745	Sun	245/39 Attention 36990 76829 46912 66854 004.. (faded out) ... 34509 2.... (faded out)	USB	(MPJ/HFD)
E17z	11170	5-1	0800	Thu	674 208 5 17099 94961 35826 65906 77233 208 5 00000	USB	(AB)
E17z	9820	5-1	0810	Thu	674 208 5 17099 94961 35826 65906 77233 208 5 00000	USB	(AB)
E17z	11170	12-1	0800	Thu	674 208 5 17099 94961 35826 65906 77233 208 5 00000	USB	(AB/MPJ)
E17z	9820	12-1	0810	Thu	674 208 5 17099 94961 35826 65906 77233 208 5 00000	USB	(AB/MPJ)
E17z	11170	19-1	0800	Thu	674 283 5 39683 35468 35208 35868 49131 283 5 00000	USB	(AB/MPJ/ES)
E17z	9820	19-1	0810	Thu	674 283 5 39683 35468 35208 35868 49131 283 5 00000	USB	(AB/MPJ/ES)
E17z	11170	26-1	0800	Thu	674 283 5 39683 35468 35208 35868 49131 283 5 00000	USB	(AB/MPJ)
E17z	9820	26-1	0810	Thu	674 283 5 39683 35468 35208 35868 49131 283 5 00000	USB	(AB/MPJ)
E25	6140	4-1	1118	Wed	Enta Omri intro, breaks and beeps. 360 (R) message 0805 6210 1504 0375 6480 3012 6210 5701	AM	(qsr711/PW2)
EGY	10220.7	10-1	2043	Tue	Egyptian diplo clg IPTX Egyptian embassy Havana	SITOR-A 100/170	(RB2)
EGY	16067.7	12-1	0924	Thu	MFA Cairo simplex tfc to unid embassy. Later calling OOVF (embassy Islamabad) ... 33361 huxd .. (QSY to 16333 kHz)	SITOR-A 100/170	(WP3)
EGY	16334.7	12-1	0955	Thu	MFA Cairo clg OOVF: Egyptian embassy Islamabad	SITOR-A 100/170	(WP3)
EGY	16333	12-1	1432	Thu	MFA Cairo clg 66601 S	CODAN chirp	(WP3)
EGY	9046.7	18-1	2029	Wed	MFA Cairo clg RCVB Egyptian embassy Washington.	SITOR-A 100/170	(AB)
EGY	9046.7	18-1	2041	Wed	Egyptian diplo clg SSBT Egyptian MFA Cairo	SITOR-A 100/170	(AB)
EGY	16067.7	31-1	0959	Tue	Embassy Traffic	SITOR-A 100/170	(RB2)
F11	6940	1-1	0515	Sun	0446 88888 88888 48694 87200 45044 ... 97169 27066 61212 88888 88888 00043 00043	FSK 100/620	(AB)
F11	6940	1-1	0520	Sun	0446 88888 88888 48694 87200 45044 ... 97169 27066 61212 88888 88888 00043 00043	FSK 100/620	(AB)
F11	6836	2-1	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6836	2-1	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9370	2-1	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9370	2-1	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	17531	3-1	1250	Tue	Polish intel.	FSK 100/620	(AB)
F11	9370	4-1	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9370	4-1	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	7863	4-1	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	7863	4-1	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	17531	4-1	1245	Wed	Polish Intel.	FSK 100/620	(AB)
F11	17531	4-1	1250	Wed	Polish Intel.	FSK 100/620	(AB)
F11	6940	5-1	0515	Thu	0446 88888 88888 48694 87200 45044 ... 97169 27066 61212 88888 88888 00043 00043	FSK 100/620	(AB)
F11	6940	5-1	0520	Thu	0446 88888 88888 48694 87200 45044 ... 97169 27066	FSK 100/620	(AB)

					61212 88888 88888 00043 00043		
F11	7772	5-1	0630	Thu	0574 00000	FSK 100/620	(AB)
F11	7772	5-1	0635	Thu	0574 00000	FSK 100/620	(AB)
F11	16388	5-1	0730	Thu	0433 00000	FSK 100/620	(AB)
F11	16388	5-1	0735	Thu	0433 00000	FSK 100/620	(AB)
F11	6836	5-1	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6836	5-1	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	7499	6-1	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	7499	6-1	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	6836	9-1	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6836	9-1	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9370	9-1	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9370	9-1	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	7772	10-1	0630	Tue	0574 88888 88888 14240 41987 94713 ... 41293 80838 65348 88888 88888 00043 00043	FSK 100/620	(AB)
F11	7772	10-1	0635	Tue	0574 88888 88888 14240 41987 94713 ... 41293 80838 65348 88888 88888 00043 00043	FSK 100/620	(AB)
F11	7499	10-1	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	7499	10-1	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	7863	10-1	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	7863	10-1	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	9370	11-1	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9370	11-1	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	7863	11-1	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	7863	11-1	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	17531	11-1	1245	Wed	Polish Intel.	FSK 100/620	(AB)
F11	17531	11-1	1250	Wed	Polish Intel.	FSK 100/620	(AB)
F11	5831	12-1	0300	Thu	Polish intel.	FSK 100/620	(AB)
F11	5831	12-1	0305	Thu	Polish intel.	FSK 100/620	(AB)
F11	6940	12-1	0515	Thu	Polish intel.	FSK 100/620	(AB)
F11	6940	12-1	0520	Thu	Polish intel.	FSK 100/620	(AB)
F11	7772	12-1	0630	Thu	0574 88888 88888 14240 41987 94713 ... 41293 80838 65348 88888 88888 00043 00043	FSK 100/620	(AB)
F11	7772	12-1	0635	Thu	0574 88888 88888 14240 41987 94713 ... 41293 80838 65348 88888 88888 00043 00043	FSK 100/620	(AB)
F11	16388	12-1	0730	Thu	0433 00000	FSK 100/620	(AB)
F11	16388	12-1	0735	Thu	0433 00000	FSK 100/620	(AB)
F11	6836	12-1	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6836	12-1	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	7499	13-1	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	7499	13-1	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	6836	16-1	0800	Mon	0434 88888 88888 87233 78042 55321 ... 02883 40278 23671 88888 88888 00037 00037	FSK 100/620	(AB)
F11	6836	16-1	0805	Mon	0434 88888 88888 87233 78042 55321 ... 02883 40278 23671 88888 88888 00037 00037	FSK 100/620	(AB)
F11	9370	16-1	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9370	16-1	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	7772	17-1	0630	Tue	0574 00000	FSK 100/620	(AB)
F11	7772	17-1	0635	Tue	0574 00000	FSK 100/620	(AB)
F11	16388	17-1	0730	Tue	Polish intel. Message	FSK 100/620	(AB)
F11	16388	17-1	0735	Tue	Polish intel. Message	FSK 100/620	(AB)
F11	7499	17-1	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	7499	17-1	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	7863	17-1	1150	Tue	0325 88888 88888 40259 32718 21349 ... 28026 49052 72086 88888 88888 00038 00038	FSK 100/620	(AB)
F11	7863	17-1	1155	Tue	0325 88888 88888 40259 32718 21349 ... 28026 49052 72086 88888 88888 00038 00038	FSK 100/620	(AB)
F11	17531	17-1	1245	Tue	0132 00000	FSK 100/620	(AB)
F11	17531	17-1	1250	Tue	0132 00000	FSK 100/620	(AB)
F11	9370	18-1	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9370	18-1	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	7863	18-1	1150	Wed	0325 88888 88888 40259 32718 21349 ... 28026 49052	FSK 100/620	(AB)

					72086 88888 88888 00038 00038		
F11	7863	18-1	1155	Wed	0325 88888 88888 40259 32718 21349 ... 28026 49052 72086 88888 88888 00038 00038	FSK 100/620	(AB)
F11	17531	18-1	1245	Wed	0132 00000	FSK 100/620	(AB)
F11	17531	18-1	1250	Wed	0132 00000	FSK 100/620	(AB)
F11	5831	19-1	0300	Thu	Polish intel.	FSK 100/620	(AB)
F11	5831	19-1	0305	Thu	Polish intel.	FSK 100/620	(AB)
F11	6940	19-1	0515	Thu	Polish intel.	FSK 100/620	(AB)
F11	6940	19-1	0520	Thu	Polish intel.	FSK 100/620	(AB)
F11	7772	19-1	0630	Thu	0574 00000	FSK 100/620	(AB)
F11	7772	19-1	0635	Thu	0574 00000	FSK 100/620	(AB)
F11	16388	19-1	0730	Thu	0433 88888 88888 88361 93359 73744 ... 29716 68694 66822 88888 88888 00036 00036	FSK 100/620	(AB)
F11	16388	19-1	0735	Thu	0433 88888 88888 88361 93359 73744 ... 29716 68694 66822 88888 88888 00036 00036	FSK 100/620	(AB)
F11	6836	19-1	0800	Thu	0434 88888 88888 87233 78042 55321 ... 02883 40278 23671 88888 88888 00037 00037	FSK 100/620	(AB)
F11	6836	19-1	0805	Thu	0434 88888 88888 87233 78042 55321 ... 02883 40278 23671 88888 88888 00037 00037	FSK 100/620	(AB)
F11	7499	20-1	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	7499	20-1	0910	Fri	0554 00000	FSK 100/620	(AB)
F11	6940	23-1	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	6940	23-1	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	6836	23-1	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6836	23-1	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9370	23-1	0845	Mon	0353 88888 88888 03778 52287 89459 ... 86223 16398 83399 88888 88888 00036 00036	FSK 100/620	(AB)
F11	9370	23-1	0850	Mon	0353 88888 88888 03778 52287 89459 ... 86223 16398 83399 88888 88888 00036 00036	FSK 100/620	(AB)
F11	7772	24-1	0630	Tue	0574 00000	FSK 100/620	(AB)
F11	7772	24-1	0635	Tue	0574 00000	FSK 100/620	(AB)
F11	9443	24-1	0655	Tue	0684 00000	FSK 100/620	(AB)
F11	9443	24-1	0700	Tue	0684 00000	FSK 100/620	(AB)
F11	16388	24-1	0730	Tue	0433 00000	FSK 100/620	(AB)
F11	16388	24-1	0735	Tue	0433 00000	FSK 100/620	(AB)
F11	7499	24-1	0900	Tue	0554 88888 88888 79875 91452 47396 ... 01951 50025 46615 88888 88888 00041 00041	FSK 100/620	(AB)
F11	7499	24-1	0905	Tue	0554 88888 88888 79875 91452 47396 ... 01951 50025 46615 88888 88888 00041 00041	FSK 100/620	(AB)
F11	7863	24-1	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	7863	24-1	1155	Tue	0325 00000	FSK 100/620	(AB)
F11	17531	24-1	1245	Tue	0132 88888 88888 74540 81002 33664 ... 83494 52376 09772 88888 88888 00035 00035	FSK 100/620	(AB)
F11	17531	24-1	1250	Tue	0132 88888 88888 74540 81002 33664 ... 83494 52376 09772 88888 88888 00035 00035	FSK 100/620	(AB)
F11	5831	25-1	0300	Wed	Polish intel.	FSK 100/620	(AB)
F11	5831	25-1	0305	Wed	Polish intel.	FSK 100/620	(AB)
F11	9370	25-1	0845	Wed	0353 88888 88888 03778 52287 89459 ... 86223 16398 83399 88888 88888 00036 00036	FSK 100/620	(AB)
F11	9370	25-1	0850	Wed	0353 88888 88888 03778 52287 89459 ... 86223 16398 83399 88888 88888 00036 00036	FSK 100/620	(AB)
F11	7863	25-1	1150	Wed	0325 00000	FSK 100/620	(AB)
F11	7863	25-1	1155	Wed	0325 00000	FSK 100/620	(AB)
F11	17531	25-1	1245	Wed	0132 88888 88888 74540 81002 33664 ... 83494 52376 09772 88888 88888 00035 00035	FSK 100/620	(AB)
F11	17531	25-1	1250	Wed	0132 88888 88888 74540 81002 33664 ... 83494 52376 09772 88888 88888 00035 00035	FSK 100/620	(AB)
F11	5831	26-1	0300	Thu	0231 00000	FSK 100/620	(AB)
F11	5831	26-1	0305	Thu	0231 00000	FSK 100/620	(AB)
F11	6940	26-1	0515	Thu	0446 00000	FSK 100/620	(AB)
F11	6940	26-1	0520	Thu	0446 00000	FSK 100/620	(AB)
F11	7772	26-1	0630	Thu	0574 00000	FSK 100/620	(AB)
F11	7772	26-1	0635	Thu	0574 00000	FSK 100/620	(AB)

F11	16388	26-1	0730	Thu	0433 00000	FSK 100/620	(AB)
F11	16388	26-1	0735	Thu	0433 00000	FSK 100/620	(AB)
F11	6836	26-1	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6836	26-1	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	9443	27-1	0655	Fri	0684 00000	FSK 100/620	(AB)
F11	9443	27-1	0700	Fri	0684 00000	FSK 100/620	(AB)
F11	7499	27-1	0900	Fri	0554 88888 88888 79875 91452 47396 ... 01951 50025 46615 88888 88888 00041 00041	FSK 100/620	(AB)
F11	7499	27-1	0905	Fri	0554 88888 88888 79875 91452 47396 ... 01951 50025 46615 88888 88888 00041 00041	FSK 100/620	(AB)
F11	6940	30-1	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	6940	30-1	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	6836	30-1	0800	Mon	0434 88888 88888 87233 78042 55321 ... 02883 40278 23671 88888 88888 00037 00037	FSK 100/620	(AB)
F11	6836	30-1	0805	Mon	0434 88888 88888 87233 78042 55321 ... 02883 40278 23671 88888 88888 00037 00037	FSK 100/620	(AB)
F11	9370	30-1	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9370	30-1	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	7772	31-1	0630	Tue	0574 00000	FSK 100/620	(AB)
F11	7772	31-1	0635	Tue	0574 00000	FSK 100/620	(AB)
F11	9443	31-1	0655	Tue	0684 00000	FSK 100/620	(AB)
F11	9443	31-1	0700	Tue	0684 00000	FSK 100/620	(AB)
F11	16388	31-1	0730	Tue	0433 00000	FSK 100/620	(AB)
F11	16388	31-1	0735	Tue	0433 00000	FSK 100/620	(AB)
F11	7499	31-1	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	7499	31-1	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	7863	31-1	1150	Tue	0325 00000	FSK 100/620	(AB)
F11	7863	31-1	1155	Tue	0325 00000	FSK 100/620	(AB)
G06	5322	2-1	0757	Mon	329 329 329 00000 Early start. Windows XP shutdown sound	USB	(AB)
G06	4478	9-1	1759	Mon	691 691 691 00000	USB	(AB)
G06	4774	11-1	1157	Wed	691 691 691 00000	USB	(AB-POL)
G06	4774	11-1	1207	Wed	111 111 111 00000	USB	(AB-POL)
G06	4792	13-1	1927	Fri	436 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP shutdown sound. Operator chat	USB	(AB/MPJ)
G06	5320	16-1	0800	Mon	329 329 329 00000. Windows XP shut down sound at 0808 UTC	USB	(AB)
G06	4463	19-1	1300	Thu	329 329 329 00000. Windows XP error sounds. Space Cadet Pinball game sounds	USB	(AB-POL/ES)
G06	4513	26-1	1816	Thu	111	USB	(AB)
G06	4513	26-1	1829	Thu	271 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/MPJ)
G06	4792	27-1	1929	Fri	436 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/MPJ)
HM01	11435	1-1	1604	Sun	i.p. 33616 50161 34258 66357 14553 02446	AM/RDFT	(RR2)
HM01	10715	1-1	2200	Sun	33616 60161 14258 61357 54553 52446; mixed voice and data	AM/RDFT	(Dan)
HM01	11435	3-1	1557	Tue	33618 50162 05001 51841 14555 02448	AM/RDFT	(RR2)
HM01	11435	4-1	1602	Wed	33619 50163 05002 51842 14556 02449	AM/RDFT	(RR2)
HM01	10715	4-1	2200	Wed	50101 50165 05004 51844 14558 51821	AM/RDFT	(Dan)
HM01	11435	5-1	1601	Thu	50101 50164 05003 51843 14557 58821	AM/RDFT	(RR2)
HM01	16180	5-1	2057	Thu	50101 50164 05003 51843 14557 58821	AM/RDFT	(RL)
HM01	11435	6-1	1602	Fri	Abruptly into groups & data 50101 50165 05004 51844 14558 58821	AM/RDFT	(RR2)
HM01	10715	6-1	2157	Fri	50101 50165 05004 51844 14558 58821	AM/RDFT	(RL)
HM01	11435	7-1	1600	Sat	50102 50166 05005 51845 14559 58822	AM/RDFT	(RR2)
HM01	16180	7-1	2057	Sat	50102 50166 05005 51845 14559 58822	AM/RDFT	(RL)
HM01	17480	7-1	2157	Sat	50102 50166 05005 51845 14559 58822	AM/RDFT	(RL)
HM01	9330	8-1	0656	Sun	50102 50166 05005 51845 14559 58822	AM/RDFT	(AB)
HM01	9065	8-1	0756	Sun	50102 50166 05005 51845 14559 58822	AM/RDFT	(AB)
HM01	9240	8-1	0856	Sun	50102 50166 05005 51845 14559 58822	AM/RDFT	(AB)
HM01	11435	8-1	1555	Sun	50104 50168 05007 51847 44111 58824	AM/RDFT	(RR2)
HM01	11435	8-1	1603	Sun	Radio Habana Cuba in Spanish, then dead air till 1606 UTC,	AM/RDFT	(RR2)

					into HM01: 50103 50167 05006 51846 44111 58823		
HM01	10715	8-1	2200	Sun	50103 50167 05006 51846 44111 58823	AM/RDFT	(Dan/RL)
HM01	10715	9-1	2200	Mon	50104 50168 05007 51847 44111 58824	AM/RDFT	(Dan)
HM01	17480	10-1	2205	Tue	Into groups after a false start of today's groups & data: 50105 30031 72231 51848 44112 58825	AM/RDFT	(RR2)
HM01	11435	11-1	1558	Wed	50106 30031 72231 38831 44113 58826	AM/RDFT	(RR2)
HM01	10715	11-1	2157	Wed	50106 30031 72231 38831 44113 58826	AM/RDFT	(RL)
HM01	11435	12-1	1611	Thu	i.p. 50107 30032 72232 38831 44114 58827	AM/RDFT	(RR2)
HM01	16180	12-1	2100	Thu	50107 30032 72232 38831 44114 58827	AM/RDFT	(Dan)
HM01	11435	13-1	0414	Fri	i.p.	AM/RDFT	(BW3)
HM01	11635	13-1	2057	Fri	50108 30033 72233 38832 44115 03281	AM/RDFT	(RL)
HM01	11635	13-1	2104	Fri	i.p. 50108 30033 72233 38832 44115 03281	AM/RDFT	(RR2)
HM01	10715	13-1	2200	Fri	50108 30033 72233 38832 44115 03281	AM/RDFT	(Dan)
HM01	11435	14-1	1601	Sat	50109 30034 72234 38833 44116 03281	AM/RDFT	(RR2)
HM01	17480	14-1	2157	Sat	50109 30034 72234 38833 44116 03281	AM/RDFT	(RL)
HM01	11435	15-1	1603	Sun	58011 30035 72235 38834 44117 03282	AM/RDFT	(RR2)
HM01	11635	15-1	2057	Sun	58011 30035 72235 38834 44117 03282	AM/RDFT	(RL)
HM01	8136	15-1	2323	Sun	YL/SS repeats UNO	AM/RDFT	(MCO)
HM01	11435	16-1	1603	Mon	58011 30036 72236 38835 16061 03283	AM/RDFT	(AB)
HM01	10715	16-1	2157	Mon	58011 30036 72236 38835 16061 03283	AM/RDFT	(RL)
HM01	11435	17-1	1556	Tue	i.p. 58012 30037 72237 38836 16061 03284	AM/RDFT	(RR2)
HM01	16180	17-1	2057	Tue	58012 30037 72237 38836 16061 03284	AM/RDFT	(RL)
HM01	9330	18-1	0657	Wed	58012 30037 72237 38836 16061 03284	AM/RDFT	(RR2)
HM01	11635	18-1	1832	Wed	58013 30038 61741 38837 16062 03285	AM/RDFT	(RR2)
HM01	10715	18-1	2157	Wed	58013 30038 61741 38837 16062 03285	AM/RDFT	(RL)
HM01	11435	19-1	1558	Thu	i.p. 58014 30039 61741 38838 16063 03286	AM/RDFT	(RR2)
HM01	16180	19-1	2057	Thu	58014 30039 61741 38838 16063 03286	AM/RDFT	(RL)
HM01	11435	20-1	1600	Fri	58015 53121 61742 41351 16064 03287	AM/RDFT	(RR2)
HM01	11635	20-1	1856	Fri	58015 53121 61742 41351 16064 03287	AM/RDFT	(DSch)
HM01	11435	21-1	1556	Sat	58016 53121 61743 41351 16065 60021	AM/RDFT	(RR2)
HM01	9065	22-1	0758	Sun	58016 53121 61743 41351 16065 60021	AM/RDFT	(BvR)
HM01	9240	23-1	0857	Mon	58017 53122 61744 41352 16066 60021	AM/RDFT	(AB)
HM01	11435	23-1	1600	Mon	58018 53123 61745 41353 16067 60022	AM/RDFT	(RR2)
HM01	11635	23-1	2130	Mon	Spanish numbers lady i.p.	AM/RDFT	(TrW)
HM01	10715	23-1	2200	Mon	58018 53123 61745 41353 16067 60022	AM/RDFT	(Dan)
HM01	11435	24-1	1559	Tue	58019 53124 61746 41354 04081 60023	AM/RDFT	(RR2)
HM01	16180	24-1	2057	Tue	58019 53124 61746 41354 04081 60023	AM/RDFT	(RL)
HM01	9240	25-1	0856	Wed	58019 53124 61746 41354 04081 60023	AM/RDFT	(AB)
HM01	11435	25-1	1630	Wed	i.p. 44211 53125 61747 41355 04081 60024	AM/RDFT	(RR2)
HM01	11435	26-1	1630	Thu	i.p. 44211 53126 61748 41356 04082 60025	AM/RDFT	(RR2)
HM01	16180	26-1	2117	Thu	Spanish numbers lady i.p.	AM/RDFT	(TrW)
HM01	16180	26-1	2120	Thu	44211 53126 61748 41356 04082 60025	AM/RDFT	(DSch)
HM01	9330	27-1	0657	Fri	44211 53126 61748 41356 04082 60025	AM/RDFT	(AB)
HM01	9155	27-1	0957	Fri	44211 53126 61748 41356 04082 60025	AM/RDFT	(RL)
HM01	11435	27-1	1601	Fri	44212 53127 61749 41357 04083 60026	AM/RDFT	(RR2)
HM01	11435	28-1	1625	Sat	44213 53128 22161 62181 04084 60027	AM/RDFT	(RR2)
HM01	11530	28-1	1728	Sat	44213 53128 22161 62181 04084 60027	AM/RDFT	(DSch)
HM01	16180	28-1	2057	Sat	44213 53128 22161 62181 04084 60027	AM/RDFT	(RL)
HM01	10715	28-1	2157	Sat	44212 53127 61749 41357 04083 60026	AM/RDFT	(RL)
HM01	9330	29-1	0657	Sun	44213 53128 22161 62181 04084 60027	AM/RDFT	(AB)
HM01	9065	29-1	0758	Sun	Short fragment of Radio Habana Cuba, then into 44213 53128 22161 62181 04084 60027	AM/RDFT	(AB/BvR)
HM01	9240	29-1	0857	Sun	44213 53128 22161 62181 04084 60027	AM/RDFT	(AB)
HM01	11435	29-1	1633	Sun	44214 08871 22161 62181 04085 24341	AM/RDFT	(RR2)
HM01	11530	29-1	1657	Sun	44214 08871 22161 62181 04085 24341	AM/RDFT	(DSch)
HM01	9330	30-1	0657	Mon	44214 08871 22161 62181 04085 24341	AM/RDFT	(AB)
HM01	9240	30-1	0857	Mon	44214 08871 22161 62181 04085 24341	AM/RDFT	(AB)
HM01	11435	30-1	1600	Mon	44215 08871 22162 62182 04086 24341	AM/RDFT	(RR2)
HM01	11635	30-1	1815	Mon	44216 08872 22163 62183 04087 24342	AM/RDFT	(DSch)
HM01	10715	30-1	2200	Mon	44215 08871 22162 62182 04086 24341	AM/RDFT	(Dan)
HM01	12180	31-1	1037	Tue	i.p. 44215 08871 22162 62182 04086 24341	AM/RDFT	(AB)
HM01	11435	31-1	1603	Tue	44216 08872 22163 62183 04087 24342	AM/RDFT	(RR2)

HM01	17480	31-1	2247	Tue	44216 08872 22163 62183 04087 24342	AM/RDFT	(TrW)
HM02	4761	2-1	0520	Mon	932 46 = 68055 80101 87012 ... 48378 16555 34267 = 932 46 932 46 = repeats message = 932 46 000	FSK- 19.8bd/129Hz/FS K-CW	(AB)
HM02	4761	3-1	0520	Tue	247 49 = 68336 42480 47648 ... 87206 55055 54528 = = 247 49 247 49 = repeats message = 000	FSK- 19.8bd/129Hz/FS K-CW	(BR)
HM02	4761	4-1	0520	Wed	535 48 = 64338 50490 78303 ... 05840 56961 46339 = = 535 48 535 48 = repeats message (no 000 sent)	FSK- 19.8bd/129Hz/FS K-CW	(BR)
HM02	4761	5-1	0520	Thu	951 41 = 27687 30547 88377 ... 35123 56258 03203 = 951 41 951 41 = repeats message = 951 41 00000	FSK- 19.8bd/129Hz/FS K-CW	(AB/BR)
HM02	4761	6-1	0520	Fri	968 43 = 10770 78155 08811 ... = 968 43 968 43 = repeats message = 968 43 000	FSK- 19.8bd/129Hz/FS K-CW	(AB/BR)
HM02	4761	10-1	0520	Tue	344 47 = 10770 78155 08811 ... 54612 89023 56109 = 344 47 344 47 = repeats message = 344 47 000	FSK- 19.8bd/129Hz/FS K-CW	(AB/BR)
HM02	4761	12-1	0520	Thu	159 44 = 64002 15146 23227 ... 64584 10676 00876 = 159 44 159 44 = repeats message = 159 44 000	FSK- 19.8bd/129Hz/FS K-CW	(AB/BR)
HM02	4761	13-1	0520	Fri	Unreadable. Ends with 82272 76007 72646 = 915 47 000	FSK- 19.8bd/129Hz/FS K-CW	(AB/BR)
HM02	4761	18-1	0520	Wed	927 43 = 58656 11821 53505 ... 54485 22488 00788 = 927 43 927 43 = repeats message 926 43 000	FSK- 19.8bd/129Hz/FS K-CW	(BR)
HM02	4761	21-1	0520	Sat	257 42 = 03400 32973 77141 ... 66667 42792 15139 = 257 42 257 42 = repeats message = 257 42 000	FSK- 19.8bd/129Hz/FS K-CW	(AB)
HM02	4761	22-1	0520	Sun	FSK intro, 3 mins pause, 817 43 = 77304 47605 32502 ... 53718 51358 84262 = 817 43 817 43 = repeats message = 817 43 000	FSK- 19.8bd/129Hz/FS K-CW	(AB)
HM02	11435	22-1	1600	Sun	58017 53122 61744 41352 16066 60021	AM/RDFT	(RR2)
HM02	4761	24-1	0520	Tue	921 48 = 54427 28177 54544 ... 82240 87121 41638 = 921 48 921 48 = repeats message = 921 48 000	FSK- 19.8bd/129Hz/FS K-CW	(AB/BR)
HM02	4761	25-1	0520	Wed	307 41 = 37833 68734 87336 ... 09913 68619 79284 = 307 41 307 41 = repeats message = 307 41 000	FSK- 19.8bd/129Hz/FS K-CW	(AB)
HM02	4761	26-1	0520	Thu	462 44 = 37833 68734 87336 ... 34891 45678 40561 = 462 44 462 44 = repeats message = 462 44 000	FSK- 19.8bd/129Hz/FS K-CW	(AB)
HM02	4761	28-1	0520	Sat	975 47 = 28822 08572 84536 ... 07866 74431 21012 = 975 47 975 47 = repeats message = 975 47 000	FSK- 19.8bd/129Hz/FS K-CW	(AB)
HM02	4761	30-1	0520	Mon	807 42 = 26227 71071 36820 ... 12413 21582 34333 = 807 42 807 42 = repeats message = 807 42 000	FSK- 19.8bd/129Hz/FS K-CW	(AB/BR)
M01	5320	3-1	1800	Tue	197 514 30 == = 23219 30628 62997 4..29 96... ... (uncopiable) = = 514 30 000	CW	(MPJ)
M01	4490	3-1	2000	Tue	197 .01? 30 30 == = 8478. 5588. 26... (in OTHR QRM) ... (remainder uncopiable)	CW	(MPJ)
M01	5320	5-1	1800	Thu	197 (variously 197 11197 and 1197) 121 30 == = 94522 97021 69040 00549 75124 ... == = 121 30 000	CW	(MPJ)
M01	5320	10-1	1800	Tue	197 645 30 == = 56888 30949 58324 10038 69465 ... 68997 28947 89...	CW	(MPJ)
M01	4490	10-1	2000	Tue	197 745 30 == = 64260 11751 30554 22248 15222 ... 46119 13608 52126 35289 93765 == = 745 30 000	CW	(MPJ)
M01	5320	12-1	1800	Thu	197 ... 7449 ... 9118 .. Nothing useful copiable.	CW	(MPJ)
M01	5810	14-1	1500	Sat	197 282 30 == = 385. (lost in noise) ... 44938 3.... 3 58093 = = 282 30 000	CW	(MPJ)
M01	5320	17-1	1800	Tue	197 850 30 == = 93356 07515 93436 52356 22471 ... 87459 22279 42645 98126 10503 == = 850 30 000	CW	(MPJ)

M01	4490	17-1	2000	Tue	197 517 30 == 01447 81206 26953 75903 04123 ... 18523 56796 79611 40934 24644 == 517 30 000	CW	(MPJ)
M01	5320	19-1	1800	Thu	197 272 30 == .0524 31132 06494 7.2.. (uncopiable)	CW	(MPJ)
M01	4490	19-1	2000	Thu	197 418 30 == 95518 53863 32384 74266 29870 ... 72232 11459 54162 10076 17673 == 418 30 000	CW	(MPJ)
M01	5465	22-1	0700	Sun	197 (R) 801 801 30 30 == 12815 12815 09253 97169 29529 61109 ... 3. 06 36106 54001 54001 43888 74372 67527 == 801 801 VE 30 30 00000	CW	(AB)
M01	5320	24-1	1800	Tue	197 876 30 == 31107 14107 64401 33671 07002 ... 71264 36901 16535 86334 28162 == 876 30 000	CW	(MPJ)
M01	4490	24-1	2000	Tue	197 549 30 == 01155 .8127 24206 37736 03160 ... 55057 832476893 == 542 30 000	CW	(MPJ)
M01	5465	29-1	0700	Sun	197 ### 30 67543	CW	(HFD)
M01	5320	31-1	1800	Tue	i.p. 93800 90162 66477 25654 == 273 30 000	CW	(MPJ)
M01	4490	31-1	2000	Tue	197 419 30 == 08203 48220 22258 53211 45135 ... 42866 11... (faded) ... 02049 ... 419 30 000	CW	(MPJ/HFD)
M01b	2470	5-1	1932	Thu	910 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000 //3545 kHz	MCW	(MPJ)
M01b	3545	5-1	1932	Thu	910 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000 //2470 kHz	MCW	(MPJ)
M01b	2405	6-1	2109	Fri	610 531 30 = 42097 //3180	CW	(HFD)
M01b	3180	6-1	2109	Fri	610 531 30 = 42097 //2405	CW	(HFD)
M01b	2470	12-1	1932	Thu	910 ... = 95 ... 95084 80120 ... //4535 kHz	MCW	(MPJ)
M01b	3545	12-1	1932	Thu	910 ... = 95 ... 95084 80120 ... //2470 kHz	MCW	(MPJ)
M01b	2485	12-1	2042	Thu	382 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000 //3160 kHz	MCW	(MPJ)
M01b	3160	12-1	2042	Thu	382 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000 //2485 kHz	MCW	(MPJ)
M01b	2655	13-1	2002	Fri	866 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000 //3195 kHz	MCW	(MPJ)
M01b	3195	13-1	2002	Fri	866 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000 //2655 kHz	MCW	(MPJ)
M01b	3520	16-1	1910	Mon	i.p. 09336 64095 89608 == 531 30 000	MCW	(MPJ)
M01b	2435	16-1	1920	Mon	ip //3519	CW	(HFD)
M01b	3519	16-1	1920	Mon	ip //2435	CW	(HFD)
M01b	2425	16-1	2015	Mon	375 531 30 == 42097 95825 48811 2988. 95084 ... 31022 88248 09336 64095 89608 == 531 30 000 //3205 kHz	MCW	(MPJ)
M01b	3205	16-1	2015	Mon	375 531 30 == 42097 95825 48811 2988. 95084 ... 31022 88248 09336 64095 89608 == 531 30 000 //2425 kHz	MCW	(MPJ/HFD)
M01b	2470	19-1	1932	Thu	910 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000 //3545 kHz	MCW	(MPJ)
M01b	3545	19-1	1932	Thu	910 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000 //2470 kHz	MCW	(MPJ)
M01b	2485	19-1	2042	Thu	382 531 30 == 42097 85925(?) 48811 42789 95084 ... 01022 88248 09316 64095 89608 == 531 30 000 //3160 kHz	MCW	(MPJ)
M01b	3160	19-1	2042	Thu	382 531 30 == 42097 85925(?) 48811 42789 95084 ... 01022 88248 09316 64095 89608 == 531 30 000 //2485 kHz	MCW	(MPJ)
M01b	2655	20-1	2002	Fri	866 (stopped in callup at 2006z) //3195 kHz	MCW	(MPJ)
M01b	3195	20-1	2002	Fri	866 (stopped in callup at 2006z) //2655 kHz	MCW	(MPJ)
M01b	3520	23-1	1910	Mon	853 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000	MCW	(MPJ)
M01b	3205	23-1	2015	Mon	375 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000	MCW	(MPJ)
M01b	2470	26-1	1932	Thu	(Callup missed) 531 30 == 42097 95925 48811 42789 95084 ... 88248 0... (stops before end) //3545 kHz	MCW	(MPJ)
M01b	3545	26-1	1932	Thu	(Callup missed) 531 30 == 42097 95925 48811 42789 95084 ... 88248 0... (stops before end) //2470 kHz	MCW	(MPJ)
M01b	2485	26-1	2042	Thu	382 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000 //3160 kHz	MCW	(MPJ)
M01b	3160	26-1	2042	Thu	382 531 30 == 42097 95925 48811 42789 95084 ... 31022 88248 09316 64095 89608 == 531 30 000 //2485 kHz	MCW	(MPJ)
M01b	2655	27-1	2002	Fri	866 531 30 == 42097 95925 48811 42789 95084 ... 31022	MCW	(MPJ)

					88248 09316 .4095 88608 = = 531 30 000 //3195 kHz		
M01b	3195	27-1	2002	Fri	866 531 30 = = 42097 95925 48811 42789 95084 ... 31022 88248 09316 .4095 88608 = = 531 30 000 //2655 kHz	MCW	(MPJ)
M01b	3520	30-1	1910	Mon	(Callup & start missed) ... 3802. 88248 09316 64095 89608 = = 531 30 000	MCW	(MPJ)
M08a	7555	5-1	2000	Thu	M08a and V02a mixing	CW	(PW2-USA)
M08a	7555	10-1	2000	Tue	V02a mixing with M08a	M08a	(PW2-USA)
M08a	7555	19-1	2000	Thu	V02a mixing with M08a	M08a	(PW2-USA)
M08a	8097	5-1	1400	Thu	i.p.	CW	(PW2-USA)
M12	13369	5-1	1010	Thu	369 369 369 000	CW	(AB)
M12	14669	5-1	1030	Thu	369 369 369 000	CW	(AB)
M12	7692	5-1	1310	Thu	678 678 678 000	CW	(AB/MPJ)
M12	6792	5-1	1330	Thu	678 678 678 000	CW	(AB)
M12	5838	7-1	0600	Sat	842 842 842 000	CW	(AB)
M12	7438	7-1	0620	Sat	842 842 842 000	CW	(AB)
M12	7692	7-1	1310	Sat	678 678 678 000	CW	(AB/HFD)
M12	6792	7-1	1330	Sat	678 678 678 000	CW	(AB/HFD)
M12	13369	8-1	1010	Sun	369 369 369 000	CW	(AB)
M12	15669	8-1	1030	Sun	369 369 369 000	CW	(AB)
M12	6937	9-1	2210	Mon	975 975 975 000	CW	(Danix)
M12	5737	9-1	2230	Mon	975 975 975 000	CW	(Danix)
M12	10547	11-1	1400	Wed	505 1 2713 49 36213 36588 55062 ... 59494 01255 56803 000 000	CW	(AB)
M12	9047	11-1	1420	Wed	505 1 2713 49 36213 36588 55062 ... 59494 01255 56803 000 000	CW	(AB)
M12	7547	11-1	1440	Wed	505 1 2713 49 36213 36588 55062 ... 59494 01255 56803 000 000	CW	(AB)
M12	13369	12-1	1010	Thu	369 369 369 000	CW	(AB)
M12	14669	12-1	1030	Thu	369 369 369 000	CW	(AB)
M12	7692	12-1	1310	Thu	678 1 4921 63 14857 47438 99930 04682 05071 ... 62868 84438 41100 85567 48907 000 000	CW	(AB/MPJ)
M12	6792	12-1	1330	Thu	678 1 4921 63 14857 47438 99930 04682 05071 ... 62868 84438 41100 85567 48907 000 000	CW	(AB/MPJ)
M12	5892	12-1	1350	Thu	678 1 4921 63 14857 47438 99930 04682 05071 ... 62868 84438 41100 85567 48907 000 000	CW	(AB/MPJ)
M12	5838	14-1	0600	Sat	842 1 9047 139 83308 78319 04964 ... 30149 49781 56640 000 000	CW	(AB/ES/HFD)
M12	7438	14-1	0620	Sat	842 1 9047 139 83308 78319 04964 ... 30149 49781 56640 000 000	CW	(AB/ES/HFD)
M12	9238	14-1	0640	Sat	842 1 9047 139 83308 78319 04964 ... 30149 49781 56640 000 000	CW	(AB/ES/HFD)
M12	7692	14-1	1310	Sat	678 1 4921 63 14867*43438 19930 04682 05671*82509 62868 84438 42100 85567 48907 000	CW	(MPJ)
M12	6792	14-1	1330	Sat	678 1 4921 63 14867*43438 19930 04682 05671*82509 62868 84438 42100 85567 48907 000	CW	(MPJ)
M12	5892	14-1	1350	Sat	678 1 4921 63 14867*43438 19930 04682 05671*82509 62868 84438 42100 85567 48907 000	CW	(MPJ)
M12	10547	14-1	1400	Sat	505 1 5576 57 54642 61599 ... 62952 41679 000 000	CW	(ES)
M12	9047	14-1	1420	Sat	505 1 5576 57 54642 61599 ... 62952 41679 000 000	CW	(ES)
M12	7547	14-1	1440	Sat	505 1 5576 57 54642 61599 ... 62952 41679 000 000	CW	(ES)
M12	13369	15-1	1010	Sun	369 1 5304 193 21604 46105 52015 ... 99411 47405 69244 000 000	CW	(AB/BvR/HFD)
M12	14669	15-1	1030	Sun	369 1 5304 193 21604 46105 52015 ... 99411 47405 69244 000 000	CW	(AB/BvR/HFD)
M12	15969	15-1	1050	Sun	369 1 5304 193 21604 46105 52015 ... 99411 47405 69244 000 000	CW	(AB/BvR/HFD)
M12	10547	16-1	1400	Mon	505 505 505 000	CW	(AB/MPJ)
M12	9047	16-1	1420	Mon	505 505 505 000	CW	(AB/MPJ)
M12	6937	16-1	2210	Mon	975 975 975 000	CW	(AB)
M12	5737	16-1	2230	Mon	975 975 975 000	CW	(AB)
M12	13386	17-1	1300	Tue	725 1 9051 60 58885 91650 58421 ... 72802 94041 11789 000 000	CW	(ES)
M12	12189	17-1	1320	Tue	725 1 9051 60 58885 91650 58421 ... 72802 94041 11789	CW	(ES)

					000 000		
M12	11491	17-1	1340	Tue	725 1 9051 60 58885 91650 58421 ... 72802 94041 11789 000 000	CW	(ES)
M12	10547	18-1	1400	Wed	505 505 505 000	CW	(AB/MPJ/ES)
M12	9047	18-1	1420	Wed	505 505 505 000	CW	(AB/MPJ/ES)
M12	5361	18-1	2200	Wed	340 340 340 000	CW	(AB)
M12	4461	18-1	2220	Wed	340 340 340 000	CW	(AB)
M12	13369	19-1	1010	Thu	369 1 3985 157 92408 57669 85484 ... 12382 86994 91714 000 000	CW	(AB/ES)
M12	14669	19-1	1030	Thu	369 1 3985 157 92408 57669 85484 ... 12382 86994 91714 000 000	CW	(AB/ES)
M12	15969	19-1	1050	Thu	369 1 3985 157 92408 57669 85484 ... 12382 86994 91714 000 000	CW	(AB/ES)
M12	14377	19-1	1233	Thu	i.p. 08668 60324 000 000	CW	(ES)
M12	13461	19-1	1250	Thu	Error, restart, 317 1 518 44 91980 50487 90978 ... 30863 08668 60324 000 000	CW	(ES)
M12	7692	19-1	1310	Thu	678 678 678 000	CW	(AB/MPJ/ES)
M12	12114	19-1	1310	Thu	317 1 518 44 91980 50487 à... 08668 60324 000 000	CW	(ES)
M12	6792	19-1	1330	Thu	678 678 678 000	CW	(AB/MPJ/ES)
M12	5838	21-1	0600	Sat	842 842 842 000	CW	(AB)
M12	7438	21-1	0620	Sat	842 842 842 000	CW	(AB)
M12	6792	21-1	1331	Sat	678 678 000	CW	(BvR)
M12	13369	22-1	1010	Sun	369 1 3985 157 92408 57669 85484 ... 12382 86994 91714 000 000	CW	(AB)
M12	14669	22-1	1030	Sun	369 1 3985 157 92408 57669 85484 ... 12382 86994 91714 000 000	CW	(AB)
M12	15969	22-1	1050	Sun	369 1 3985 157 92408 57669 85484 ... 12382 86994 91714 000 000	CW	(AB)
M12	10547	23-1	1400	Mon	505 1 5576 57 54642 61599 54298 ... 52963 62952 41679 000 000	CW	(AB)
M12	9047	23-1	1420	Mon	505 1 5576 57 54642 61599 54298 ... 52963 62952 41679 000 000	CW	(AB/MPJ)
M12	7547	23-1	1440	Mon	505 1 5576 57 54642 61599 54298 ... 52963 62952 41679 000 000	CW	(AB/MPJ)
M12	6937	23-1	2210	Mon	975 975 975 000	CW	(AB)
M12	5737	23-1	2230	Mon	975 975 975 000	CW	(AB)
M12	10547	25-1	1400	Wed	505 1 5576 57 54642 61599 54298 ... 52963 62952 41679 000 000	CW	(AB)
M12	9047	25-1	1420	Wed	505 1 5576 57 54642 61599 54298 ... 52963 62952 41679 000 000	CW	(AB)
M12	7547	25-1	1440	Wed	505 1 5576 57 54642 61599 54298 ... 52963 62952 41679 000 000	CW	(AB)
M12	8116	25-1	1742	Wed	i.p. 71903 62302 35790 55289 21299 66942 81120 31797 000 000	CW	(Topol)
M12	6904	25-1	1840	Wed	257 1 8054 147 18839 09949 04530 ... 84490 76332 22101 000 000	CW	(Topol)
M12	5361	25-1	2200	Wed	340 1 3892 155 53378 52478 58866 ... 38871 47695 55634 000 000	CW	(AB)
M12	4461	25-1	2220	Wed	340 1 3892 155 53378 52478 58866 ... 38871 47695 55634 000 000	CW	(AB)
M12	4061	25-1	2240	Wed	340 1 3892 155 53378 52478 58866 ... 38871 47695 55634 000 000	CW	(AB)
M12	13369	26-1	1010	Thu	369 369 369 000	CW	(AB/ES)
M12	14669	26-1	1030	Thu	369 369 369 000	CW	(AB/ES)
M12	7692	26-1	1310	Thu	678 1 3546 71 83613 85499 04939 ... 18963 00134 52462 000 000	CW	(AB/ES/MPJ)
M12	6792	26-1	1330	Thu	678 1 3546 71 83613 85499 04939 ... 18963 00134 52462 000 000	CW	(AB/ES/MPJ)
M12	5892	26-1	1350	Thu	678 1 3546 71 83613 85499 04939 ... 18963 00134 52462 000 000	CW	(AB/ES/MPJ)
M12	5838	28-1	0600	Sat	842 1 3892 155 53378 52478 58866 ... 38871 47695 55634 000 000	CW	(AB/ES)
M12	7438	28-1	0620	Sat	842 1 3892 155 53378 52478 58866 ... 38871 47695 55634 000 000	CW	(AB/ES)

M12	9238	28-1	0640	Sat	842 1 3892 155 53378 52478 58866 ... 38871 47695 55634 000 000	CW	(AB/ES)
M12	7692	28-1	1310	Sat	678 1 3546 71 8..13 764...939 ... (rubbish copy) ... 54185 ... 18970 63... 000 000	CW	(MPJ)
M12	13369	29-1	1010	Sun	369 369 369 000	CW	(AB/BvR)
M12	14669	29-1	1030	Sun	369 369 369 000	CW	(AB/BvR)
M12	10547	30-1	1400	Mon	505 505 505 000	CW	(AB/MPJ)
M12	9047	30-1	1420	Mon	505 505 505 000	CW	(AB/MPJ)
M12	6937	30-1	2210	Mon	975 975 975 000	CW	(AB)
M12	5737	30-1	2230	Mon	975 975 975 000	CW	(AB)
M14	5374	6-1	1659	Fri	382 382 382 00000	CW	(AB/MPJ/HFD)
M14	4975	6-1	1758	Fri	382 382 382 00000. Operator chat after the transmission at 1803 UTC	CW	(AB/MPJ/HFD)
M14	5430	7-1	0800	Sat	171 ...	CW	(AB)
M14	5947	8-1	0600	Sun	382 382 382 00000	CW	(AB)
M14	6767	8-1	0700	Sun	382 382 382 00000	CW	(AB)
M14	4636	10-1	1820	Tue	186 (R) 2222 518 518 86 86 3258 53500 12865 ... 2053 57286 61220 518 518 86 86 00000 Again with Russian voices after the transmission.	CW	(AB/MPJ/BvR/ HFD)
M14	4756	11-1	1920	Wed	748 518 86 32498 53900 12865 21208 51810 ... 63490 82310 20943 57286 61220 518 86 00000	MCW	(MPJ)
M14	5430	14-1	0800	Sat	171 (R) 2222 28 58 37612 37505 806 806 32250 32250 ... 26061 26051 6671 6670 20800 20800 28 58 00000	CW	(AB)
M14	5374	20-1	1700	Fri	382 382 382 00000	CW	(AB/MPJ)
M14	5374	20-1	1714	Fri	432 88266 70954 88233 49206 59234 81822 51665	CW	(AB)
M14	4975	20-1	1800	Fri	382 382 382 00000	CW	(AB/MPJ)
M14	5947	22-1	0600	Sun	382 382 382 00000	CW	(AB)
M14	6767	22-1	0700	Sun	382 382 382 00000	CW	(AB)
M14	18041	24-1	0500	Tue	952 687 50 = 66200 17683 ...	CW	(EW)
M14	4639	24-1	1820	Tue	186 (R) 5522 518 86 3268 5500 12865 ... 2053 57286 61220 518 86 00000	CW	(AB/MPJ)
M14	17458	25-1	0930	Wed	617 617 617 00000	CW	(AB/ES)
M14	4753	25-1	1920	Wed	748	CW	(HFD)
M14	5240	29-1	2300	Sun	376 613 82 76251 82420 ... 62091 76351 82240 613 82 00000	CW	(AB)
M14	5825	30-1	0000	Mon	376 613 82 76251 82420 ... 62091 76351 82240 613 82 00000	CW	(AB)
M21	4349.5	17-1	1329	Tue	=991629??0???? =991630??0???? =991631??0????	CW	(JPL-NZL)
M22	6607	5-1	1838	Thu	VVV DE 4XZ 4XZ = = AR NW QTC 1 NR 801 = = NR 801 FU V LK50 942150 HB7U GR 34 = = HUHUH XIDDC GCOIA TYBYB ...	CW	(AB)
M22	4331	5-1	2050	Thu	VVV DE 4XZ 4XZ = = //6607 kHz	CW	(AB)
M22	6607	5-1	2050	Thu	VVV DE 4XZ 4XZ = = //4331 kHz	CW	(AB)
M22	4331	17-1	0035	Tue	VVV DE 4XZ DE 4XZ = =	CW	(GNL)
M22	6607	17-1	0035	Tue	VVV DE 4XZ DE 4XZ = =	CW	(GNL)
M22	6607	18-1	2208	Wed	VVV DE 4XZ 4XZ = = AR AR NW QTC 1 NR 714 = = NR 714 OT V UA9U 520281 TO2J GR 01 = = TJJT QZIFJ GRAZG YXDQE YTSWO CWCDT ...	CW	(AB)
M22	6607	21-1	0524	Sat	VVV DE 4XZ 4XZ	CW	(BvR)
M22	6278	21-1	0533	Sat	VVV DE 4XZ 4XZ	CW	(BvR)
M22	6607	23-1	2303	Mon	4XZ	CW	(GNL)
M22	4331	23-1	2317	Mon	4XZ	CW	(GNL)
M32	5596	9-1	1507	Mon	2U52 DE P71R K. BVF9 DE P71R K. 1AQG DE P71R K. 9XLI DE P71R K. QSA 2 QSA ? K. R K	CW	(JPL-NZL)
M32	5319	17-1	1435	Tue	i.p. = = MEH QSA ZADT QSY 28784 QSY 28784 K. QSY 28784 QSY 28784 K. VXMF VXMF VXMF DE P8IL P8IL K	CW	(JPL-NZL)
M32	7931	23-1	1558	Mon	XXX XXX WEGI WEGI 87223 LION 61700 766 RIFOZU 66119 8729 K	CW	(JPL-NZL)
M32	3517	23-1	1607	Mon	X9WN DE KCLI K	CW	(JPL-NZL)
M32	17460	25-1	0938	Wed	RDL RDL RDL 43285 27727 43285 27727 43285 27727 K	CW	(AB)
M32	17460	25-1	0958	Wed	U U U XXX XXX WEGI WEGI 77220 52622 VESTOKRIK 8130 3761 HLEDOTEMP 0804 0156 XXX XXX WEGI WEGI 77220 52622 VESTOKRIK 8130 3761 HLEDOTEMP 0804 0156 K	CW	(AB)

M32	17460	25-1	1056	Wed	U U U RDL RDL RDL 24896 50888 24896 50888 24896 50888 K	CW	(AB)
M32	17460	25-1	1115	Wed	U U U U XXX XXX WEGI WEGI 82271 15444 UBEGOSLOJ 82271 15444 XXX XXX WEGI WEGI 82271 15444 UBEGOSLOJ 8128 5714 K	CW	(AB)
M32	17460	25-1	1208	Wed	U U U U RDL RDL RDL 89207 16526 89207 16526 89207 16526 K	CW	(AB)
M32	17460	25-1	1209	Wed	U U U RDL RDL RDL 21118 92665 21118 92665 21118 92665 K	CW	(AB)
M32	17460	25-1	1230	Wed	U U U XXX XXX WEGI WEGI 21566 04946 KLADOVIK 8760 4507 XXX XXX WEGI WEGI 21566 04946 KLADOVIK 8760 4507 K	CW	(AB)
M32	17460	25-1	1314	Wed	U U U RDL RDL RDL 65846 21740 65846 21740 65846 21740 K	CW	(AB)
M32	7859	29-1	1401	Sun	XXX WEGI WEGI 50652 14795 FANTOTAZ 1031 6789 XXX XXX WEGI WEGI 50652 14795 FANTOTAZ 1031 6789 K	CW	(JPL-NZL)
M32	12152	30-1	1026	Mon	6TP5 DE WAAJ K. WAAJ 244 27 30 1321 244 = 858 = 35967 76760 17755 ... 89916 26573 30025 K	CW	(AB)
M32	3725	30-1	1744	Mon	F4YS F4YS F4YS 162 77 30 2240 162 = 111111 54848 14594 34949 91998 00204 ...	CW	(JPL-J)
M32a	6794	11-1	1805	Wed	VVV IIII RMU51 RMU51 RMU51 DE RMAE RMAE QTC 359 101 11 1950 359 = SML = PROGNOZ POGODY DO 18 ChASOW 12 NWAR BALTIJSKOE MORE POGODA OPREDEL ...	CW	(AB)
M32a	6794	11-1	1825	Wed	RMU51 RMU51 RMU51 DE RMAE RMAE QTC 359 101 11 1955 359 = SML = PROGNOZ POGODY DO 18 ChASOW 12 NWAR BALTIJSKOE MORE OGODA OPREDEL ...	CW	(AB)
M32a	6794	11-1	1830	Wed	RMU51 RMU51 RMU51 DE RMAE RMAE QTC 401 56 11 1957 401 = SML = PROGNOZ POGODY DO 18 ChASOW 12 NWAR DO 18 ChASOW 1 4 NWAR BALTIJSKOE MORE ...	CW	(AB)
M32a	4055	16-1	1844	Mon	RIC87 DE RCV QTC 211 57 1.005 ...1 = DEJST WUUQS (Cont'd - 1844z)	CW	(JPL-UKR)
M32a	3335	19-1	1826	Thu	RJP42 QSA ? QTC K. RJP42 631 14 19 2101 631 = FM RJP42 FOR RJH48 RJH45 = 19181 99451 12451 41297 40902 01020 ... AR RJP42 K. RPJ42 OK QRU K	CW	(JPL)
M32a	3222	29-1	0320	Sun	RIC87 DE RCV	CW	(GNL)
M32c	8112	16-1	0840	Mon	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8112	17-1	1020	Tue	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8112	17-1	1032	Tue	IWV4: Tu-95MS Bear H net NCS. IWV4 = 470 528 774 8.7 715 218 C ? K	CW	(Tom)
M32c	8112	17-1	1040	Tue	W-markers: Tu-95MS Bear H net	CW	(Tom)
M41	4542	27-1	1424	Fri	PWZW i.p. 1518 7145 0189 1088 23 = 1518 714 2655 25 K = 1518 714 2652 27 = 1518 714 2647 91083 28 =	CW	(F5JBR)
M42	12164	24-1	1100	Tue	Russian diplo/intel.	OFDM	(AB)
M42	9350	25-1	0855	Wed	Russian diplo i.p.	CROWD-36	(AB)
M42	16156	27-1	1330	Fri	44991 03916 86005 ... 97085 43271 05831	FSK 75/500	(AAI)
M42	16156	27-1	1330	Fri	Op chat in CW: QSA4 QR Q75 QBN K K BK BK BK QRV K	CW	(AAI)
M42	12164	31-1	1100	Tue	Russian diplo/intel.	OFDM	(AB)
M42b	5371	1-1	0007	Sun	NGE4 (3X) DE FMG9 (X2) K. R 146 0020 K R 147 020 K	CW	(GNL)
M42b	5112	1-1	0010	Sun	FMG9 (3X) DE NGE4 (2X) K. R 135 0015 K	CW	(GNL)
M42b	5112	1-1	0017	Sun	147 100 01 0000 2017 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	1-1	0017	Sun	FMG9: 135 100 01 0000 7997 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	2-1	0005	Mon	7'AJH (3X) DE OKJI (2X) K OP CHAT R 172 0020 K	CW	(GNL)
M42b	5112	2-1	0010	Mon	OKJI (3X) DE 7'AJH (2X) K. R R 059 0017 K	CW	(GNL)
M42b	5371	2-1	0011	Mon	1S4W: 567 100 04 0000 1378 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	2-1	0011	Mon	OKJI: 059 100 02 0000 4691 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5112	2-1	0017	Mon	7'AJH: 172 100 02 0000 0677 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5112	3-1	0009	Tue	1PZF (3X) DE YN5W (2X) K	CW	(GNL)
M42b	5112	4-1	0008	Wed	1S4W 3X DE 1ZUX K OP CHAT R 567 0016 K	CW	(GNL)
M42b	5371	4-1	0010	Wed	1ZUX 3X DE 1S4W QSA 4 QSA ? K OP CHAT R 170 0019 K	CW	(GNL)

M42b	5112	5-1	0008	Thu	YKTU (3X) DE XAV'A (2X) K QSA 2 QSY 02969 QSY 02969 K	CW	(GNL)
M42b	5371	5-1	0010	Thu	XAV'A (3X) DE YKTU (2X) K (2X) K	CW	(GNL)
M42b	5112	6-1	0008	Fri	JPS'A (3X) DE LVHD (2X) K. R 067 0018 K QSA 2 QSY 38731 QSY 38731 K	CW	(GNL)
M42b	5371	6-1	0010	Fri	LVHD (3X) DE JPS'A (2X) K. = = ZTH PBL K	CW	(GNL)
M42b	5371	6-1	0011	Fri	JPS'A: M42B 0011 50/500F1B 33333 067 100 06 0000 1479	FSK 50/500	(GNL)
M42b	5112	6-1	0016	Fri	LVHD: M42B 0016 50/500F1B 34333 168 120 06 0001 0677	FSK 50/500	(GNL)
M42b	5112	7-1	0008	Sat	JPS'A (3X) DE LVHD (2X) K. R 505 0018 K	CW	(GNL)
M42b	5371	7-1	0010	Sat	LVHD (3X) DE JPS'A (2X) K	CW	(GNL)
M42b	5371	7-1	0011	Sat	JPS'A message	FSK 50/500	(GNL)
M42b	5112	7-1	0016	Sat	LVHD message	FSK 50/500	(GNL)
M42b	5112	9-1	0010	Mon	L7Y2 (3X) DE DMS'A (2X) K	CW	(GNL)
M42b	5371	10-1	0002	Tue	3'ATV (3X) DE S3HP (2X) K. CFM R 749 0020 K	CW	(GNL)
M42b	5112	10-1	0009	Tue	S3HP (3X) DE 3'ATV (2X) K. RPT TIME K R 273 0012 K	CW	(GNL)
M42b	5371	10-1	0010	Tue	S3HP: 273 100 10 0000 8394 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5112	10-1	0016	Tue	3'ATV: 749 167 10 0000 1997 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	11-1	0004	Wed	Opchat: CFM R 749 0020 K	CW	(GNL)
M42b	5112	11-1	0009	Wed	EN5B (3X) DE 2C5I (2X) K. RPT TIME K R 273 0012 K	CW	(GNL)
M42b	5112	11-1	0010	Wed	2C5I: 163 120 11 0001 0677 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	11-1	0014	Wed	EN5B message	FSK 50/500	(GNL)
M42b	5112	12-1	0010	Thu	B5T9 (3X) DE KJ78 (2x) K OP CHAT R 123 00015 K	CW	(GNL)
M42b	5371	12-1	0010	Thu	KJ78 (3X) DE B5T9 (2x) K OP CHAT R 310 2..... 310 0020 K	CW	(GNL)
M42b	5371	12-1	0012	Thu	B5T9: 123 100 12 0000 1234 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5112	12-1	0016	Thu	KJ78: 310 120 12 0000 8319 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	13-1	0009	Fri	M47L (3X) DE DZNG (2X) K OP CHAT R 310 2..... 310 0020 K	CW	(GNL)
M42b	5112	13-1	0010	Fri	DZNG (3X) DE M47L (2X) K OP CHAT R 456 0014 K	CW	(GNL)
M42b	5371	13-1	0011	Fri	DZNG: 456 100 13 0000 1234 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5112	13-1	0016	Fri	M47L: 362 100 13 0000 4371 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	14-1	0009	Sat	JH37 (3X) DE D2CL (2X) K OP CHAT R 320 0013 K	CW	(GNL)
M42b	5112	14-1	0010	Sat	D2CL (3X) DE JH37 (2X) K OP CHAT R 34 R 438 0016 K	CW	(GNL)
M42b	5371	14-1	0011	Sat	DZNG: 438 100 14 0000 5733 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5112	14-1	0016	Sat	M47L: 320 100 14 0000 5327 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	15-1	0007	Sun	LCRN (3X) DE IS6Z (2X) K OP CHAT R 0015 159 0015 K	CW	(GNL)
M42b	5112	15-1	0010	Sun	IS6Z (3X) DE LCRN (2X) K OP CHAT R 349 0018 K	CW	(GNL)
M42b	5112	15-1	0012	Sun	LCRN: 159 188 15 0003 0677 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	16-1	0007	Mon	OF4R (3X) DE XFU9 (2X) K OP CHAT QSY 12515 12515 K	CW	(GNL)
M42b	5112	16-1	0009	Mon	XFU9 (3X) DE OF4R (1X) K OP CHAT QSY 11406 QSY 11406 K	CW	(GNL)
M42b	5371	16-1	0010	Mon	IS6Z: 349 100 15 0000 2813 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	17-1	0004	Tue	DC9X (3X) DE 5UXR (2X) K OP CHAR R 157 0018 K	CW	(GNL)
M42b	5112	17-1	0010	Tue	5UXR (3X) DE DC9X (2X) K OP CHAT R 480 0013 K	CW	(GNL)
M42b	5112	17-1	0012	Tue	DC9X msg: 44333 157 100 17 0757 0677 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	17-1	0017	Tue	5UXR msg: 34332 480 100 17 0000 1209 followed by 5Fgs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	18-1	0002	Wed	VVV GHPM (3X) DE 5J1L K OP CHAT R 147 0018 K	CW	(GNL)
M42b	5112	18-1	0003	Wed	Opchat: VVV AT 0002 5J1L (3X) DE GHPM (2X) K. R 481 0014 K	CW	(GNL)
M42b	5112	18-1	0012	Wed	147 130 18 0000 2581 followed by FGs and opchat in CW: CFM NL K SK SK	FSK 50/500	(GNL)
M42b	5371	18-1	0012	Wed	481 100 18 0000 3453 followed by 5FGs	FSK 50/500	(GNL)
M42b	5371	19-1	0012	Thu	7DM3 (3X) DE OB5N (2X) K	CW	(GNL)
M42b	5371	19-1	0012	Thu	7DM3 (3X) DE OB5N (2X) K	CW	(GNL)

M42b	5112	19-1	0015	Thu	OB5N (3X) DE 7DM3 (2X) K	CW	(GNL)
M42b	5112	19-1	0015	Thu	OB5N (3X) DE 7DM3 (2X) K	CW	(GNL)
M42b	5112	20-1	0010	Fri	PLF3 (3X) DE KUWF (2X) K OP CHAT R 567 0037 K	CW	(GNL)
M42b	5112	20-1	0010	Fri	PLF3 (3X) DE KUWF (2X) K. R 567 0037 K	CW	(GNL)
M42b	5371	20-1	0010	Fri	KUWF DE PLF3	CW	(GNL)
M42b	5371	20-1	0010	Fri	KUWF DE PLF3	CW	(GNL)
M42b	5112	20-1	0012	Fri	KUWF: 210 130 20 0000 3241 followed by 5FGs (=50= separator)	FSK 50/500	(CGa)
M42b	5112	20-1	0012	Fri	KUWF msg: 210 130 20 0000 3241 followed by 130 5FGs (=50= separator)	FSK 50/500	(GNL)
M42b	5371	20-1	0034	Fri	567 100 20 0010 6921 followed by 5FGs (=50= separator)	FSK 50/500	(CGa)
M42b	5371	20-1	0034	Fri	PLF3 msg: 567 100 20 0010 6921 followed by 100 5FGs (=50= separator)	FSK 50/500	(GNL)
M42b	5112	21-1	0010	Sat	LWZB DE 9MO8 QSY 33430 QSY 33430 K	CW	(GNL)
M42b	5371	21-1	0010	Sat	9MO8 (4X) DE LWZB (2X) K	CW	(GNL)
M42b	5112	23-1	0010	Mon	CR7E (3X) DE SERI (2X) K. Opchat: R 024 0330 K	CW	(GNL)
M42b	5371	23-1	0010	Mon	CR7E (3X) DE SERI (2X) K. Op chat R 170 0020 K	CW	(GNL)
M42b	5112	23-1	0034	Mon	SERI, no message sent	FSK 50/500	(GNL)
M42b	5371	23-1	0034	Mon	CR7E msg: 024 100 23 0000 1438 followed by 100 5FGs (=50= separator)	FSK 50/500	(GNL)
M42b	5112	24-1	0010	Tue	J8UP (3X) DE JL'AW QSY 88909 QSY 88909 K	CW	(GNL)
M42b	5371	24-1	0010	Tue	J8UP	CW	(GNL)
M42b	5112	25-1	0010	Wed	NEK'A clg MJE1 VICE MJS1. Op chat: R 120 0015 K	CW	(GNL)
M42b	5371	25-1	0010	Wed	NEK'A (3X) DE MJS1 (2X) K OP CHAT R 149 0020 K	CW	(GNL)
M42b	5371	25-1	0013	Wed	120 100 25 0000 2398 followed by 5FGs (=50= separator)	FSK 50/500	(GNL)
M42b	5112	25-1	0017	Wed	149 136 25 0000 0677 followed by 5FGs (=50= separator)	FSK 50/500	(GNL)
M42b	5112	26-1	0010	Thu	M7KC (3X) DE BA5W (2X) K. QSY 45188 QSY 45188 K R 543 0030 K	CW	(GNL)
M42b	5371	26-1	0010	Thu	BA5W (3X) DE M7YC (2X) K. BK BK OK QSW 45188 K	CW	(GNL)
M42b	5112	27-1	0010	Fri	4AI2 (3X) DE 47NO (2X) K. QTC 1 ZCC ZVP SLD K R 737 0015 K	CW	(GNL)
M42b	5371	27-1	0010	Fri	47NO (3X) DE 4AI2 (2X) K. QTC 1 ZCC ZVP SLD K R 384 0018 K	CW	(GNL)
M42b	5371	27-1	0012	Fri	737 100 27 0000 4977 followed by 5FGs message (=50= separator)	FSK 50/500	(GNL)
M42b	5112	27-1	0018	Fri	384 100 27 0000 6483 followed by 5FGs message (=50= separator)	FSK 50/500	(GNL)
M42b	5112	28-1	0010	Sat	I5'AJ OP CHAT R 145 0017 K. NIL SK SK	CW	(GNL)
M42b	5371	28-1	0010	Sat	BJ9U (3X) DE I5'AJ (2X) K. R 146 0114 K NIL SK	CW	(GNL)
M42b	5112	28-1	0011	Sat	146 167 28 0001 0776 followed by 5FGs message (=50= separator)	FSK 50/500	(GNL)
M42b	5371	28-1	0015	Sat	145 100 28 0000 7867 followed by 5FGs message (=50= separator)	FSK 50/500	(GNL)
M42b	5112	30-1	0010	Mon	FMG9 R 877 0015 K	CW	(GNL)
M42b	5371	30-1	0010	Mon	NGE4 R 473 0012 K	CW	(GNL)
M42b	5112	30-1	0011	Mon	473 100 30 0000 4334. Did not send a message, but NGE4 confirms receipt	FSK 50/500	(GNL)
M42b	5371	30-1	0013	Mon	877 100 30 0000 4554. Did not send a message, but FMG9 confirms receipt	FSK 50/500	(GNL)
M42b	5112	31-1	0010	Tue	OKJI (3X) DE 7YaJH (2X) K	CW	(GNL)
M42b	4461	31-1	0551	Tue	PZAK wkg PLXW	FSK 50/500	(Benka)
M42b	5555	31-1	0620	Tue	NO4K: 666104 31 0610 6660.. (=50= separator)	FSK 50/500	(Benka)
M42b	6925	31-1	0646	Tue	i.p. (QSX 7397)	FSK 50/500	(Benka)
M42b	15621	31-1	0759	Tue	FE3C wkg N1ZE	FSK 50/500	(Benka)
M42b	11553	31-1	0821	Tue	JONP wkg NWLM	FSK 50/500	(Benka)
M42b	11553	31-1	0821	Tue	JONP wkg NWLM	FSK 50/500	(Benka)
M42b	14713	31-1	0840	Tue	i.p.	FSK 50/500	(Benka)
M42b	6875	31-1	1010	Tue	i.p. (=50= separator. Incorrect shift: 475Hz	FSK 50/500	(Benka)
M42b	7811	31-1	1026	Tue	QSX 8157 (31-Jan-17) (Benka)	FSK 50/500	(Benka)
M42b	9353	31-1	1103	Tue	i.p.	FSK 50/500	(Benka)
M42b	10180	31-1	1235	Tue	Msg (=50= separator). Op chat in CW: nil sk	FSK 50/500	(Benka)
M42b	2421	31-1	1907	Tue	RAP8 wkg TX8D : QTC 1 ZCC K. Message sent in FSK 50/500	CW	(F5JBR)
M42c	7629	4-1	1940	Wed	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix)

M42c	6783	4-1	1950	Wed	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/MP J)
M42c	4034	4-1	2000	Wed	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/MP J)
M42c	17411	6-1	2230	Fri	Russian diplo/intel. Link ID 00116, Date 6th, Serial #1, Groups 157	FSK 200/500	(Danix-USA)
M42c	15956	6-1	2240	Fri	Russian diplo/intel. Link ID 00116, Date 6th, Serial #1, Groups 157	FSK 200/500	(Danix-USA)
M42c	18526	7-1	1300	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/RL/HFD)
M42c	16142	7-1	1310	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/HFD)
M42c	14674	7-1	1320	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/HFD)
M42c	7684	7-1	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix)
M42c	5387	7-1	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/MP J)
M42c	4572	7-1	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/HFD)
M42c	17411	13-1	2230	Fri	Russian diplo/intel. Link ID 00116, Date 13th, Serial #2, Groups 145. Header: 11177 00116 31278 13002 01459	FSK 200/500	(Danix-USA)
M42c	15956	13-1	2240	Fri	Russian diplo/intel. Link ID 00116, Date 13th, Serial #2, Groups 145. Header: 11177 00116 31278 13002 01459	FSK 200/500	(Danix-USA)
M42c	18526	14-1	1300	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)
M42c	16142	14-1	1310	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)
M42c	14674	14-1	1320	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)
M42c	7684	14-1	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)
M42c	5387	14-1	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	4572	14-1	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	17471	18-1	0000	Wed	Russian diplo/intel. Serial #14, Groups 245	FSK 200/500	(Danix-J)
M42c	14421	18-1	0100	Wed	Russian diplo/intel. Serial #14, Groups 245	FSK 200/500	(Danix-J)
M42c	17411	20-1	2230	Fri	Russian diplo/intel. Link ID 00116, Date 13th, Serial #2, Groups 145. Header: 11177 00116 31278 13002 01459	FSK 200/500	(Danix-USA)
M42c	15956	20-1	2240	Fri	Russian diplo/intel. Link ID 00116, Date 13th, Serial #2, Groups 145. Header: 11177 00116 31278 13002 01459	FSK 200/500	(Danix-USA)
M42c	18526	21-1	1300	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)
M42c	16142	21-1	1310	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)
M42c	14674	21-1	1320	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)
M42c	7684	21-1	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	5387	21-1	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	4572	21-1	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	17411	27-1	2230	Fri	Russian diplo/intel. Link ID 00116, Date 27th, Serial #4, Groups 186. Header: 11177 00116 19375 27004 01869	FSK 200/500	(Danix-USA)
M42c	15956	27-1	2240	Fri	Russian diplo/intel. Link ID 00116, Date 27th, Serial #4, Groups 186. Header: 11177 00116 19375 27004 01869	FSK 200/500	(Danix-USA)
M42c	18526	28-1	1300	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)
M42c	16142	28-1	1310	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)
M42c	14674	28-1	1320	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)

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M42c	7684	28-1	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
M42c	5387	28-1	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
M42c	4572	28-1	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
M42d	10378	1-1	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix-I)
M42d	9169	1-1	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix-I)
M42d	7419	1-1	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(Danix-I)
M42d	6988	3-1	1500	Tue	Russian diplo/intel. Link ID 16404, Null message	FSK 200/1000	(Danix)
M42d	10856	3-1	1500	Tue	Russian diplo/intel. Link ID 16404, Null message	FSK 200/1000	(Danix)
M42d	8174	3-1	1512	Tue	Russian diplo/intel. Link ID 16404, Null message	FSK 200/1000	(Danix)
M42d	10383	3-1	1650	Tue	Russian diplo/intel. Link ID 20501, Null message	FSK 200/1000	(Danix)
M42d	9046	3-1	1700	Tue	Russian diplo/intel. Link ID 20501, Null message	FSK 200/1000	(Danix)
M42d	7313	3-1	1710	Tue	Russian diplo/intel. Link ID 20501, Null message	FSK 200/1000	(Danix/MPJ)
M42d	8126	3-1	2300	Tue	Russian diplo/intel. Link ID 40988, Null message	FSK 200/1000	(Danix)
M42d	7643	3-1	2310	Tue	Russian diplo/intel. Link ID 40988, Null message	FSK 200/1000	(Danix)
M42d	5148	3-1	2320	Tue	Russian diplo/intel. Link ID 40988, Null message	FSK 200/1000	(Danix)
M42d	19928	4-1	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	17489	4-1	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	15914	4-1	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	19313	4-1	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB)
M42d	16348	4-1	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB)
M42d	14494	4-1	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB)
M42d	16329	4-1	1230	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/MPJ)
M42d	14826	4-1	1240	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/MPJ)
M42d	12166	4-1	1250	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/MPJ)
M42d	12186	5-1	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/MPJ)
M42d	10243	5-1	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/MPJ)
M42d	8175	5-1	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB)
M42d	16174	7-1	1100	Sat	Russian diplo/intel. Link ID 36882, Null message	FSK 200/1000	(AB)
M42d	14855	7-1	1110	Sat	Russian diplo/intel. Link ID 36882, Null message	FSK 200/1000	(AB)
M42d	12214	7-1	1120	Sat	Russian diplo/intel. Link ID 36882, Null message	FSK 200/1000	(AB)
M42d	20564	7-1	1500	Sat	Russian diplo/intel. Null message on link 32821	FSK 200/1000	(AB-RUS/Danix)
M42d	18471	7-1	1510	Sat	Russian diplo/intel. Null message on link 32821	FSK 200/1000	(AB-RUS/Danix)
M42d	16308	7-1	1520	Sat	Russian diplo/intel. Null message on link 32821	FSK 200/1000	(AB/Danix)
M42d	10378	8-1	1520	Sun	Russian diplo/intel: 46464646	FSK 200/1000 ASCII	(Danix)
M42d	10378	8-1	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	9169	8-1	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	7419	8-1	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	10856	10-1	1500	Tue	Russian diplo/intel. Null msg on link 16404	FSK 200/1000	(AB/Danix)
M42d	8174	10-1	1510	Tue	Russian diplo/intel. Null msg on link 16404	FSK 200/1000	(AB/Danix)
M42d	6988	10-1	1520	Tue	Russian diplo/intel. Null msg on link 16404	FSK 200/1000	(AB/Danix/MPJ)
M42d	10383	10-1	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-S/Danix)
M42d	9046	10-1	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-S/Danix)
M42d	7313	10-1	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-S/Danix)
M42d	8126	10-1	2250	Tue	Russian diplo/intel. 46464646	FSK 200/1000 ASCII	(Danix)
M42d	8126	10-1	2251	Tue	Russian diplo/intel. 4646464646464646	FSK 200/1000 ASCII	(Danix)
M42d	8126	10-1	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	7643	10-1	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	5148	10-1	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	20154	11-1	0600	Wed	Russian diplo/intel. Link ID 32817, Date 7th, Serial #2,	FSK 200/1000	(Danix-J)

					Groups 469		
M42d	18304	11-1	0610	Wed	Russian diplo/intel. Link ID 32817, Date 7th, Serial #2, Groups 469	FSK 200/1000	(Danix-J)
M42d	16156	11-1	0620	Wed	Russian diplo/intel. Link ID 32817, Date 7th, Serial #2, Groups 469	FSK 200/1000	(Danix-J)
M42d	19928	11-1	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-AUT/Danix)
M42d	17489	11-1	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-AUT/Danix)
M42d	15914	11-1	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-AUT/Danix)
M42d	20735	11-1	0900	Wed	Russian diplo/intel. Message on link 16405	FSK 200/1000	(AB-AUT/Danix)
M42d	18037	11-1	0910	Wed	Russian diplo/intel. Message on link 16405	FSK 200/1000	(AB/Danix)
M42d	16250	11-1	0920	Wed	Russian diplo/intel. Message on link 16405	FSK 200/1000	(AB/Danix)
M42d	19313	11-1	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	16348	11-1	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	19433	11-1	1015	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	14494	11-1	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	16048	11-1	1025	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	14976	11-1	1035	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	20154	12-1	0600	Thu	Russian diplo/intel. Link ID 32817, Date 7th, Serial #2, Groups 469	FSK 200/1000	(Danix-J)
M42d	18304	12-1	0610	Thu	Russian diplo/intel. Link ID 32817, Date 7th, Serial #2, Groups 469	FSK 200/1000	(Danix-J)
M42d	16156	12-1	0620	Thu	Russian diplo/intel. Link ID 32817, Date 7th, Serial #2, Groups 469	FSK 200/1000	(Danix-J)
M42d	20735	12-1	0900	Thu	Russian diplo/intel. Link ID 16405, Date 11th, Serial #8, Groups 180	FSK 200/1000	(AB/Danix)
M42d	18037	12-1	0910	Thu	Russian diplo/intel. Link ID 16405, Date 11th, Serial #8, Groups 180	FSK 200/1000	(AB/Danix)
M42d	16250	12-1	0920	Thu	Russian diplo/intel. Link ID 16405, Date 11th, Serial #8, Groups 180	FSK 200/1000	(AB/Danix)
M42d	12186	12-1	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
M42d	10243	12-1	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	8175	12-1	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix/MPJ)
M42d	14534	14-1	0900	Sat	Russian diplo/intel. Link ID 45114, Date 13th, Serial #47, Groups 224	FSK 200/1000	(Danix)
M42d	12149	14-1	0910	Sat	Russian diplo/intel. Link ID 45114, Date 13th, Serial #47, Groups 224	FSK 200/1000	(Danix)
M42d	10483	14-1	0920	Sat	Russian diplo/intel. Link ID 45114, Date 13th, Serial #47, Groups 224	FSK 200/1000	(Danix)
M42d	20973	14-1	1000	Sat	Russian diplo/intel. Link ID 45057, Date 13th, Serial #91. Groups 57	FSK 200/1000	(AB/Danix)
M42d	18736	14-1	1010	Sat	Russian diplo/intel. Link ID 45057, Date 13th, Serial #91. Groups 57	FSK 200/1000	(AB/Danix)
M42d	16328	14-1	1020	Sat	Russian diplo/intel. Link ID 45057, Date 13th, Serial #91. Groups 57	FSK 200/1000	(AB/Danix)
M42d	16174	14-1	1100	Sat	Russian diplo/intel. Link ID 36882, Date 13th, Serial #79, Groups 266	FSK 200/1000	(AB/Danix)
M42d	14855	14-1	1110	Sat	Russian diplo/intel. Link ID 36882, Date 13th, Serial #79, Groups 266	FSK 200/1000	(AB/Danix)
M42d	12214	14-1	1120	Sat	Russian diplo/intel. Link ID 36882, Date 13th, Serial #79, Groups 266	FSK 200/1000	(AB/Danix)
M42d	14534	15-1	0900	Sun	Russian diplo/intel. Link ID 45114, Date 13th, Serial #47, Groups 224	FSK 200/1000	(BvR/Danix)
M42d	12149	15-1	0910	Sun	Russian diplo/intel. Link ID 45114, Date 13th, Serial #47, Groups 224	FSK 200/1000	(BvR/Danix)
M42d	10483	15-1	0920	Sun	Russian diplo/intel. Link ID 45114, Date 13th, Serial #47, Groups 224	FSK 200/1000	(BvR/Danix)
M42d	20973	15-1	1000	Sun	Russian diplo/intel. Link ID 45057, Date 13th, Serial #91. Groups 57	FSK 200/1000	(AB/Danix)

M42d	20564	21-1	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix)
M42d	18471	21-1	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix)
M42d	16308	21-1	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix/MPJ)
M42d	16174	22-1	1100	Sun	Russian diplo/intel. Link ID 36882, Date 20th, Serial #80, Groups 364	FSK 200/1000	(AB/Danix)
M42d	14855	22-1	1110	Sun	Russian diplo/intel. Link ID 36882, Date 20th, Serial #80, Groups 364	FSK 200/1000	(AB/Danix)
M42d	12214	22-1	1120	Sun	Russian diplo/intel. Link ID 36882, Date 20th, Serial #80, Groups 364	FSK 200/1000	(AB/Danix)
M42d	10378	22-1	1520	Sun	Russian diplo/intel. 4646464646464646	FSK 200/1000	(Danix)
M42d	10378	22-1	1521	Sun	Russian diplo/intel. 4646464646464646	FSK 200/1000	(Danix)
M42d	10378	22-1	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	9169	22-1	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	7419	22-1	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	10856	24-1	1500	Tue	Russian diplo/intel. Null msg on link 16404	FSK 200/1000	(AB/MPJ/Danix)
M42d	8174	24-1	1510	Tue	Russian diplo/intel. Null msg on link 16404	FSK 200/1000	(AB/MPJ/Danix)
M42d	6988	24-1	1520	Tue	Russian diplo/intel. Null msg on link 16404	FSK 200/1000	(AB/MPJ/Danix)
M42d	10383	24-1	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/MPJ/Danix)
M42d	9046	24-1	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/MPJ/Danix)
M42d	7313	24-1	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/RL-HOL/MPJ/Danix)
M42d	8126	24-1	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	7643	24-1	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	5148	24-1	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	20154	25-1	0600	Wed	Russian diplo/intel. Link ID 32816, Date 21st, Serial #3, Groups 317	FSK 200/1000	(AB-NZL/Danix)
M42d	18304	25-1	0610	Wed	Russian diplo/intel. Link ID 32816, Date 21st, Serial #3, Groups 317	FSK 200/1000	(AB-NZL/Danix)
M42d	16156	25-1	0620	Wed	Russian diplo/intel. Link ID 32816, Date 21st, Serial #3, Groups 317	FSK 200/1000	(AB-NZL/Danix)
M42d	19928	25-1	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-AUT/Danix)
M42d	17489	25-1	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-AUT/Danix)
M42d	15914	25-1	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-AUT/Danix)
M42d	20735	25-1	0900	Wed	Russian diplo/intel. Link ID 16405, Date 24th, Serial #9, Groups 222	FSK 200/1000	(AB/Danix)
M42d	18037	25-1	0910	Wed	Russian diplo/intel. Link ID 16405, Date 24th, Serial #9, Groups 222	FSK 200/1000	(AB/Danix)
M42d	16250	25-1	0920	Wed	Russian diplo/intel. Link ID 16405, Date 24th, Serial #9, Groups 222	FSK 200/1000	(AB/Danix)
M42d	19313	25-1	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	16348	25-1	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	19433	25-1	1015	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	14494	25-1	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	14976	25-1	1025	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	16048	25-1	1025	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	9920	25-1	2303	Wed	Russian Intel, Cuba	FSK 200/1000	(MCO)
M42d	20154	26-1	0600	Thu	Russian diplo/intel. Link ID 32816, Date 21st, Serial #3, Groups 317	FSK 200/1000	(AB-NZL/Danix)
M42d	18304	26-1	0610	Thu	Russian diplo/intel. Link ID 32816, Date 21st, Serial #3, Groups 317	FSK 200/1000	(AB-NZL/Danix)
M42d	16156	26-1	0620	Thu	Russian diplo/intel. Link ID 32816, Date 21st, Serial #3, Groups 317	FSK 200/1000	(AB-NZL/Danix)

M42d	7643	31-1	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	5148	31-1	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M51a	3881	3-1	1602	Tue	FAV22: French Morse Lesson. 5LG/5FG/Punctuation	CW	(MPJ)
M51a	3881	8-1	0758	Sun	VVV (x3) DE FAV22 (x3) on 3881//5825//6825 kHz	CW	(JPL-NZL)
M51a	5825	8-1	0758	Sun	VVV (x3) DE FAV22 (x3) on 3881//5825//6825 kHz	CW	(JPL-NZL)
M51a	6825	8-1	0758	Sun	VVV (x3) DE FAV22 (x3) on 3881//5825//6825 kHz	CW	(JPL-NZL)
M51a	3881	8-1	2140	Sun	FAV22 i.p.	CW	(w.obi)
M51a	3881	17-1	1600	Tue	FAV22: French Morse Practice	CW	(MPJ)
M51a	03881	18-1	0056	Wed	FAV22 sending 5LGs	CW	(CGa)
M51a	3881	21-1	0505	Sat	FAV22 i.p.	CW	(BvR)
M51a	3881	23-1	2322	Mon	FAV22	CW	(GNL)
M51a	3881	25-1	0003	Wed	FAV22 i.p.	CW	(GNL)
M51a	3881	26-1	0043	Thu	FAV22 i.p.	CW	(GNL)
M89	3777	1-1	1006	Sun	V M8JF (x3) DE RIS9 (x2) //4532, 6793, and 8060	CW	(JPL)
M89	4532	1-1	1006	Sun	V M8JF (x3) DE RIS9 (x2) //3777, 6793, and 8060	CW	(JPL)
M89	6793	1-1	1006	Sun	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 8060	CW	(JPL)
M89	8060	1-1	1006	Sun	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 6793	CW	(JPL)
M89	10180	1-1	1009	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6053	1-1	1017	Sun	V TR2Q (x3) DE 5TUH (x2) //10458	CW	(JPL)
M89	10458	1-1	1017	Sun	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	8360	1-1	1025	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K	CW	(JPL)
M89	4860	1-1	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	1-1	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4060	1-1	1126	Sun	V TR2Q (x3) DE 5TUH (x2) //4573	CW	(JPL)
M89	4573	1-1	1126	Sun	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	3642	1-1	1846	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	1-1	1846	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	10458	2-1	0606	Mon	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	10180	2-1	0609	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10458	2-1	0627	Mon	V TR2Q de 5TUH	CW	(F5JBR)
M89	4060	2-1	1200	Mon	V TR2Q (x3) DE 5TUH (x2) //4573	CW	(JPL)
M89	4573	2-1	1200	Mon	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	3777	2-1	1202	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	2-1	1202	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5801	2-1	1204	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	2-1	1204	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3642	2-1	1818	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4860	2-1	1820	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)	CW	(JPL)
M89	4131	2-1	1827	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4060	2-1	1828	Mon	V TR2Q (x3) DE 5TUH (x2) //4573	CW	(JPL)
M89	4573	2-1	1828	Mon	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	3777	2-1	1829	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	2-1	1829	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3777	4-1	1116	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	4-1	1116	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5801	4-1	1118	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	4-1	1118	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	4060	4-1	1119	Wed	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	4060	4-1	1350	Wed	V TR2Q de 5TUH //4609 kHz	CW	(F5JBR)
M89	4609	4-1	1350	Wed	V TR2Q de 5TUH //4060 kHz	CW	(F5JBR)
M89	3642	4-1	2215	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4060	4-1	2220	Wed	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	4060	4-1	2220	Wed	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	3777	5-1	1346	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	5-1	1346	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	5-1	1348	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4060	5-1	1349	Thu	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	5-1	1349	Thu	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	4435	5-1	1352	Thu	i.p. N7T7 4A65 NT3U ... AR	CW	(JPL)
M89	4159	5-1	1357	Thu	i.p. 2150 BT RMKS 2938 TO .978 = MUBD N3AT D4T3 3DU. 3TNA 6DA	CW	(JPL)
M89	4120	5-1	1405	Thu	i.p. 7ND3 4U7D 67D5 DNT6 U3NT 5T4N ... AR K R R GA	CW	(JPL)

M89	4159	5-1	1408	Thu	i.p. NR 6020 CK 61 62 0105 2150 = AR R GA	CW	(JPL)
M89	4096	5-1	1415	Thu	i.p. 3AT4 645A U757 ND43 TATA TUNA 4353 ... AR K. OK GA K	CW	(JPL)
M89	5801	6-1	1055	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	6-1	1055	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10178	6-1	1058	Fri	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	3777	6-1	1104	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	6-1	1104	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	6743	6-1	1108	Fri	i.p. U6AN 7545 A5D5 5TAD ... 26W = DAT. R QSL 1.10 K	CW	(JPL)
M89	5829	6-1	1116	Fri	i.p. HR NR 118 HR NR 118 K. QSL ? QSL WNIQ WNIQ DE WECJ WECJ	CW	(JPL)
M89	4860	6-1	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	6-1	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4769	6-1	1210	Fri	i.p. NR 034 CK 99 57 0106 2010 RMKS .138 TO 643. K RR OK	CW	(JPL)
M89	4060	6-1	1218	Fri	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	6-1	1218	Fri	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	3642	6-1	1616	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4060	6-1	1724	Fri	TR2Q TR2Q TR2Q de 5TUH 5TUH 5TUH V	CW	(LG3)
M89	4609	6-1	1734	Fri	TR2Q TR2Q TR2Q de 5TUH 5TUH 5TUH V	CW	(LG3)
M89	10178	7-1	0752	Sat	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	6793	7-1	0757	Sat	i.p. 5953/7/1673/1 AR UGT COMM = 275/5953/7/1673/1 AR V M8JF	CW	(JPL)
M89	8060	7-1	0757	Sat	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	3642	7-1	1615	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	7-1	1615	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	7-1	1616	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	7-1	1616	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4060	7-1	1618	Sat	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	7-1	1618	Sat	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	4860	7-1	1620	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	7-1	1620	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4125	7-1	1950	Sat	i.p. UDUAR AR	CW	(JPL)
M89	10178	8-1	0744	Sun	i.p. TATD N6N7 AR MSG NR 013 CK 499 44 0108 .530 = ...4 5D5A	CW	(JPL)
M89	6793	8-1	0805	Sun	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	8-1	0805	Sun	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6840	8-1	0820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	8-1	0820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	4860	8-1	1220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	8-1	1220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	3777	8-1	1224	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	8-1	1224	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4060	8-1	1226	Sun	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	8-1	1226	Sun	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	4131	8-1	1228	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4860	8-1	1320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	8-1	1320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	10180	9-1	1003	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4609	9-1	1005	Mon	V FIK3 (x3) DE 54V5 (x2)	CW	(JPL)
M89	3777	9-1	1014	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	9-1	1014	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4060	9-1	1450	Mon	V FIK3 (x3) DE 54V5 (x2) //4609	CW	(JPL)
M89	4609	9-1	1450	Mon	V FIK3 (x3) DE 54V5 (x2) //4060	CW	(JPL)
M89	3642	9-1	1459	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	9-1	1459	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	9-1	1517	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4860	9-1	1520	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	9-1	1520	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4720	9-1	1530	Mon	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4060	10-1	1214	Tue	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	10-1	1214	Tue	V FIK3 (x3) DE 54V5 (x2) //4060	CW	(JPL)
M89	3777	10-1	1217	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)

M89	4532	10-1	1217	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	10-1	1218	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	10-1	1218	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4860	10-1	1220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	10-1	1220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4720	10-1	1230	Tue	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	6666	10-1	1232	Tue	i.p. DE 7ALT R K. DE 7ALT R K. QSA 2 GA QSL ..05 ... DN54 7U.	CW	(JPL)
M89	3757	10-1	1238	Tue	VVV KFLH DE UFT8 QSY 0257 QSY 0257 K K (see N&O 232)	CW	(JPL)
M89	4131	10-1	1513	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4060	10-1	1516	Tue	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	10-1	1516	Tue	V FIK3 (x3) DE 54V5 (x2) //4060	CW	(JPL)
M89	4060	10-1	1950	Tue	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	10-1	1950	Tue	V FIK3 (x3) DE 54V5 (x2) //4060	CW	(JPL)
M89	10178	11-1	0425	Wed	V FIK3 (x3) DE 54V5 (x2)	CW	(JPL)
M89	6793	11-1	0431	Wed	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	11-1	0431	Wed	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	5801	11-1	1105	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	11-1	1105	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3777	11-1	1108	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	11-1	1108	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4060	11-1	1110	Wed	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	11-1	1110	Wed	V FIK3 (x3) DE S4JH (x2) //4060	CW	(JPL)
M89	4860	11-1	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	11-1	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4060	11-1	1155	Wed	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	11-1	1155	Wed	V FIK3 (x3) DE S4JH (x2) //4060	CW	(JPL)
M89	3642	11-1	1552	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	8060	12-1	0126	Thu	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	6053	12-1	0953	Thu	V TR2Q (x3) DE 5TUH (x2) //10178	CW	(JPL)
M89	10178	12-1	0953	Thu	V TR2Q (x3) DE 5TUH (x2) //6053	CW	(JPL)
M89	10180	12-1	0957	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	12-1	0958	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	12-1	0958	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	12-1	1527	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	12-1	1527	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4060	12-1	1529	Thu	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	12-1	1529	Thu	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	3377	13-1	0954	Fri	M8JF de RIS9 V //4532 kHz	CW	(F5JBR)
M89	4532	13-1	0954	Fri	M8JF de RIS9 V //3377 kHz	CW	(F5JBR)
M89	3642	13-1	1604	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	13-1	1604	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	13-1	1605	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	13-1	1605	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4131	13-1	1607	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4060	13-1	1608	Fri	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	13-1	1608	Fri	5TUH i.p. 7G NR 053 CK 499 44 0114 0000 = UT63 A3NT UAD7 6DTA	CW	(JPL)
M89	3844	13-1	1655	Fri	i.p. 7ZZ DE JVG QSA ? K. VVV 7ZZ (x3) DE JVG (x2) QSA T QSY 2	CW	(JPL)
M89	3377	13-1	1718	Fri	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	3777	13-1	1718	Fri	V M8JF (x3) DE RIS9 (x2) //3377 and 4532	CW	(JPL)
M89	4532	13-1	1718	Fri	V M8JF (x3) DE RIS9 (x2) //3377 and 3777	CW	(JPL)
M89	4720	13-1	1730	Fri	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	5177	14-1	0233	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5801	14-1	0237	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10180	14-1	0241	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6793	14-1	0243	Sat	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	10178	14-1	0758	Sat	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	6793	14-1	0759	Sat	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	14-1	0759	Sat	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10640	14-1	0820	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)	CW	(JPL)

M89	5801	14-1	0838	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	14-1	0838	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3777	14-1	1255	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	14-1	1255	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	14-1	1257	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7642	14-1	1257	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4060	14-1	1259	Sat	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	14-1	1259	Sat	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	4131	14-1	1711	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	15-1	2007	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	15-1	2007	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	15-1	2009	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	15-1	2009	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4060	15-1	2011	Sun	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	15-1	2011	Sun	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	4131	15-1	2013	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3777	16-1	0855	Mon	V M8JF (x3) DE RIS9 (x2) //4532, 6793, and 8060	CW	(JPL)
M89	4532	16-1	0855	Mon	V M8JF (x3) DE RIS9 (x2) //3777, 6793, and 8060	CW	(JPL)
M89	6793	16-1	0855	Mon	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 8060	CW	(JPL)
M89	8060	16-1	0855	Mon	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 6793	CW	(JPL)
M89	10178	16-1	0903	Mon	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	5535	16-1	0907	Mon	i.p. NR 021 CK 21 89 0116 1506 RMKS = 1610 TO 1613 AR K. 56N7	CW	(JPL)
M89	5801	16-1	0928	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	16-1	0928	Mon	i.p. III = 65N7 D4U7 3T55 5437 5TT4 ... AR QSL ? HR WK NR 430	CW	(JPL)
M89	4060	16-1	1323	Mon	V TR2Q (x3) DE 5TUH (x2) //4693	CW	(JPL)
M89	4609	16-1	1323	Mon	V TR2Q (x3) DE 5TUH (x2) //4693	CW	(JPL)
M89	3642	16-1	1352	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	16-1	1353	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	16-1	1353	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3642	16-1	1836	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	16-1	1836	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4131	16-1	1839	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10180	17-1	0953	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6053	17-1	0954	Tue	V TR2Q (x3) DE 5TUH (x2) //10178	CW	(JPL)
M89	10178	17-1	0954	Tue	V TR2Q (x3) DE 5TUH (x2) //6053	CW	(JPL)
M89	3777	17-1	1006	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	17-1	1006	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4060	17-1	1333	Tue	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	3642	17-1	1334	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4301	17-1	1343	Tue	i.p. 4DNT TAU3 AR QSL ? K. R	CW	(JPL)
M89	5331	17-1	1454	Tue	i.p. TU64 3T.A ANUD A.UN 346T AR AR R RPT 13W = 37U4 37U4 AR	CW	(JPL)
M89	4131	17-1	1820	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4860	17-1	1820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	17-1	1820	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	3777	18-1	0844	Wed	V M8JF (x3) DE RIS9 (x2) //4532, 6793, and 8060	CW	(JPL)
M89	4532	18-1	0844	Wed	V M8JF (x3) DE RIS9 (x2) //3777, 6793, and 8060	CW	(JPL)
M89	6793	18-1	0844	Wed	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 8060	CW	(JPL)
M89	8060	18-1	0844	Wed	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 6793	CW	(JPL)
M89	6053	18-1	0849	Wed	V TR2Q (x3) DE 5TUH (x2) //10178	CW	(JPL)
M89	10178	18-1	0849	Wed	V TR2Q (x3) DE 5TUH (x2) //6053	CW	(JPL)
M89	4060	18-1	1900	Wed	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	18-1	1900	Wed	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	4131	18-1	1902	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	18-1	1903	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	18-1	1903	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	19-1	1113	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	19-1	1113	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4060	19-1	1115	Thu	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	19-1	1115	Thu	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)

M89	5801	19-1	1117	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	19-1	1117	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	4860	19-1	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	19-1	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4131	19-1	1818	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	19-1	1819	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	19-1	1819	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5801	20-1	0904	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	20-1	0904	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	4060	20-1	1508	Fri	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	20-1	1508	Fri	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	3777	20-1	1510	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	20-1	1510	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	20-1	1514	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4860	20-1	1520	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	20-1	1520	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4720	20-1	1530	Fri	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	6793	21-1	0255	Sat	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	21-1	0255	Sat	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	7602	21-1	0302	Sat	i.p. D4A5 3T63 AU4U 6D55 NT3D 7DA6 . V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10180	21-1	0302	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7610	21-1	0307	Sat	i.p. 691 DP91 QSA NIL SK SK GB DP6891 DP91 QSA 4 NIL SK	CW	(JPL)
M89	3777	21-1	1047	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	21-1	1047	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4060	21-1	1053	Sat	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	21-1	1053	Sat	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	4860	21-1	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	21-1	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4860	21-1	1520	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	21-1	1520	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	3642	21-1	1538	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	5801	22-1	0242	Sun	3A7D i.p. 755T 67UN 6AAT UTT7 6346 ... //10180	CW	(JPL)
M89	10180	22-1	0242	Sun	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	7610	22-1	0300	Sun	i.p. DP6291 QSA 3 NIL SK SK	CW	(JPL)
M89	6793	22-1	0818	Sun	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	22-1	0818	Sun	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6840	22-1	0820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	22-1	0820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	10180	22-1	0825	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10178	22-1	0839	Sun	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	10556	22-1	0842	Sun	i.p. R R 51W ... TT.. AR K. R R 66W = NTU. AR K. R R SK	CW	(JPL)
M89	7931	22-1	0933	Sun	H29M DE CZTA. NWQT DE CZTA K. WWKW DE CZTA K. 9OFF DE CZTA K.	CW	(JPL)
M89	3642	22-1	1414	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	22-1	1414	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	22-1	1416	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	22-1	1416	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4060	22-1	1418	Sun	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	22-1	1418	Sun	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	4860	22-1	1420	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	22-1	1420	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	3678	22-1	1442	Sun	i.p. 91 0122 1040 RMKS 7790 TO 7667 K	CW	(JPL)
M89	4532	22-1	1459	Sun	i.p. 332/A AR UGT COMM = 438/5849/5393/01/22/2320/332/A AR. V	CW	(JPL)
M89	3777	23-1	1000	Mon	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	4532	23-1	1000	Mon	V M8JF (x3) DE RIS9 (x2) //3777 and 8060	CW	(JPL)
M89	8060	23-1	1000	Mon	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	10180	23-1	1008	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10178	23-1	1010	Mon	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	3777	23-1	1342	Mon	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	4532	23-1	1342	Mon	V M8JF (x3) DE RIS9 (x2) //3777 and 8060	CW	(JPL)

M89	8060	23-1	1342	Mon	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	3642	23-1	1344	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	23-1	1344	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4060	23-1	1405	Mon	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	23-1	1405	Mon	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	7602	26-1	0100	Thu	DKG6 (3X) DE 3A7D (2X) V	CW	(GNL)
M89	7610	29-1	0257	Sun	i.p. DP85 DP8391 QSA 3 NIL SK GB = DP.191 QSA 3 NIL	CW	(JPL)
M89	3642	29-1	1408	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	29-1	1408	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4060	29-1	1409	Sun	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	29-1	1409	Sun	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	3777	29-1	1411	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	29-1	1411	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3145	29-1	1726	Sun	i.p. VV 5PUM DE D8YF K. OK QSL QSL 0125 0125 K	CW	(JPL)
M89	3412	29-1	1742	Sun	i.p. U6NA 3546 U45A U57D NT6U ... AR	CW	(JPL)
M89	10178	30-1	0135	Mon	V TR2Q (x3) DE 5TUH (x2)	CW	(JPL)
M89	6793	30-1	0139	Mon	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	30-1	0139	Mon	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	3642	30-1	0145	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	30-1	0145	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5177	30-1	0150	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	30-1	0247	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	30-1	0247	Mon	i.p. 5U6N 5U7U A36D UU6U UAN5 AR QSL ? HW QSL ? HR WK NR 100	CW	(JPL)
M89	7610	30-1	0300	Mon	i.p. DP6191 QSL NIL DP6291 QSA 2 NIL SK GB	CW	(JPL)
M89	3777	30-1	1527	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	30-1	1527	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4060	30-1	1528	Mon	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	30-1	1528	Mon	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	4720	30-1	1530	Mon	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4131	30-1	1534	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	7932	31-1	1015	Tue	i.p. 6NA7 635D T3N3 74U4 54UN ... III = NDT3 5NA7 4D6U N57U	CW	(JPL)
M89	6840	31-1	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//10640	CW	(JPL)
M89	10640	31-1	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	4060	31-1	1029	Tue	V TR2Q (x3) DE 5TUH (x2) //4609	CW	(JPL)
M89	4609	31-1	1029	Tue	V TR2Q (x3) DE 5TUH (x2) //4060	CW	(JPL)
M89	8350	31-1	1030	Tue	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	6622	31-1	1035	Tue	i.p. R RPT 1P 51W K. R QSL 1.35 K. R HR WK NR 111A	CW	(JPL)
M89	3777	31-1	1053	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	31-1	1053	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5801	31-1	1055	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	31-1	1055	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6865	31-1	1104	Tue	i.p. R QSL 1904 K. HR F GA K. R FF NR NR 3162/EX 1905 RMKS 74	CW	(JPL)
M89	4860	31-1	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//6840	CW	(JPL)
M89	6840	31-1	1120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) QSA ? K (R5)//4860	CW	(JPL)
M89	4720	31-1	1130	Tue	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4131	31-1	1414	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	31-1	1416	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	31-1	1416	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M95	5500	1-1	1036	Sun	AR HW NR .. AS HR CQ MSG MSG NR 01/CCK CK 55 53 90 RMKS CQ =	CW	(JPL-NZL)
M95	8073	1-1	1142	Sun	V BNGC (x3) DE XSV85 HR MSGS GA PSE CY NR 0003 CK 288 35 0101 1550 = TTA 3U6 3AN 3U7 TAU 773 ...	CW	(JPL-NZL)
M95	4243	1-1	1148	Sun	i.p. HR 7G TO YR PSE CY NR 026 CK 20 35 OAT NR 026 CK 20 35 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	1-1	1148	Sun	i.p. HR 7G TO YR PSE CY NR 026 CK 20 35 OAT NR 026 CK 20 35 ... //4243 kHz	CW	(JPL-NZL)
M95	4243	1-1	2344	Sun	NR 02. CK 19 35 0102 ..2. = UT6 A. U T3 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	1-1	2344	Sun	NR 02. CK 19 35 0102 ..2. = UT6 A. U T3 ... //4243 kHz	CW	(JPL-NZL)
M95	8073	2-1	1137	Mon	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0007 CK	CW	(JPL-NZL)

					239 35 0102 1559 = TTU 3U6 3AN 3U7 TAU ...		
M95	4243	2-1	1149	Mon	i.p. V HR MSG TO YR PSE CY 21 2. 35 0102 1526 = UTT TTU 3U6 3U63 A43 533 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	2-1	1149	Mon	i.p. V HR MSG TO YR PSE CY 21 2. 35 0102 1526 = UTT TTU 3U6 3U63 A43 533 ... //4243 kHz	CW	(JPL-NZL)
M95	5120	2-1	1204	Mon	i.p. VV HPQS HPQS DE RTLC RTLC HR 7G GA MSG NR 04/CCK CK 28 39 0102 2000 RMKS 8865 ...	CW	(JPL-NZL)
M95	4364	3-1	1138	Tue	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0009 CK 180 35 0103 1552 = TT3 3U6 3AN 3U7 TAU 773 ... //8073 kHz	CW	(JPL-NZL)
M95	8073	3-1	1138	Tue	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0009 CK 180 35 0103 1552 = TT3 3U6 3AN 3U7 TAU 773 ... //4364 kHz	CW	(JPL-NZL)
M95	4243	3-1	1147	Tue	i.p. HR MSG TO YR PSE CY NR 030 CK 22 35 0103 1448 = 5TU ... //9054 kHz	CW	(JPL-NZL)
M95	9054	3-1	1147	Tue	i.p. HR MSG TO YR PSE CY NR 030 CK 22 35 0103 1448 = 5TU ... //4243 kHz	CW	(JPL-NZL)
M95	8073	4-1	1136	Wed	V BNGC (x3) DE XSV85 (x2) HR MSG NR 0011 CK 162 35 0A04 A... = TT4 3U6 4AN 4U7 TAU 773 ...	CW	(JPL-NZL)
M95	4243	4-1	1148	Wed	VV HR 7G TO YR PSE CY NR 032 CK 18 35 0104 1525 = 5TD UTT TT4 3U6 3A4 353 35D 4T3 U7U ND4 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	4-1	1148	Wed	VV HR 7G TO YR PSE CY NR 032 CK 18 35 0104 1525 = 5TD UTT TT4 3U6 3A4 353 35D 4T3 U7U ND4 ... //4243 kHz	CW	(JPL-NZL)
M95	8073	6-1	1136	Fri	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0015 CK 149 35 0106 1648 = TT6 3U6 3U7 TAU 773 ...	CW	(JPL-NZL)
M95	4243	6-1	1148	Fri	V HR 7G TO YR PSE CY NR 036 CK 20 35 0106 1506 = UTT TT6 3U6 3A4 35U ... //9054 kHz	CW	(JPL-NZL)
M95	9054	6-1	1148	Fri	V HR 7G TO YR PSE CY NR 036 CK 20 35 0106 1506 = UTT TT6 3U6 3A4 35U ... //4243 kHz	CW	(JPL-NZL)
M95	5555	8-1	1230	Sun	i.p. WDEA WDEA DE KRSY KRSYK (see N&O 232)	CW	(JPL-NZL)
M95	5555	8-1	1335	Sun	i.p. = 6 = 3AU5 E DE XNU3 TU56336 74A4 5U4T 7D56 NT77 TADD ... (see N&O 232)	CW	(JPL-NZL)
M95	7553	9-1	0934	Mon	i.p. TTD 773 3AD 353 N3D 354 ... III 446 467 4D3 75D ... //9153 kHz	CW	(JPL-NZL)
M95	9153	9-1	0934	Mon	i.p. TTD 773 3AD 353 N3D 354 ... III 446 467 4D3 75D ... //7553 kHz	CW	(JPL-NZL)
M95	8073	11-1	1151	Wed	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0032 CK 47 35 0111 1617 = TTA N5U TAA N53 TAD N54 7TT TT7 746 7T5 ...	CW	(JPL-NZL)
M95	4243	11-1	1200	Wed	i.p. 446 336 MSG AGN III NR 22 145 35 0111 1612 = UTU TAA 3U. 3A4 TTU 773 35A ... //9054 kHz	CW	(JPL-NZL)
M95	9054	11-1	1200	Wed	i.p. 446 336 MSG AGN III NR 22 145 35 0111 1612 = UTU TAA 3U. 3A4 TTU 773 35A ... //4243 kHz	CW	(JPL-NZL)
M95	5308	17-1	1409	Tue	i.p. A4DN D73T 65NA NTU4 ... III III = D5A6 ..4D T6UD 546A AUTN ...	CW	(JPL-NZL)
M95	8073	19-1	1143	Thu	V BNGC (x3) DE XSV85 (x2) HW MSGS PSE CY NR 0064 CK 331 35 0119 1546 = TAN 3U6 3AN 3U7 TAU 773 357 4T3 ...	CW	(JPL-NZL)
M95	4243	19-1	1151	Thu	VV HR 7G TOYR PSE CY NR 062 CK 22 35 0119 1526 = 5TD UTT TAN 3U6 7TA N44 3A4 354 377 4TA //9054 kHz	CW	(JPL-NZL)
M95	9054	19-1	1151	Thu	VV HR 7G TOYR PSE CY NR 062 CK 22 35 0119 1526 = 5TD UTT TAN 3U6 7TA N44 3A4 354 377 4TA //4243 kHz	CW	(JPL-NZL)
M95	7553	20-1	0918	Fri	i.p. MSG AGN NR 059 CK 104 35 0120 1545 7AN UT3 ... //9153 kHz	CW	(JPL-NZL)
M95	9153	20-1	0918	Fri	i.p. MSG AGN NR 059 CK 104 35 0120 1545 7AN UT3 ... //7553 kHz	CW	(JPL-NZL)
M95	8073	21-1	1142	Sat	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0072 CK 368 35 0121 1550 = TUA 3U6 3AN 3U7 TAU 773 ...	CW	(JPL-NZL)
M95	4243	21-1	1149	Sat	VV HR 7G TOYR PSE CY NR 066 CK 21 35 0121 1512 = 5TD UTT TUA 3U6 7TA N.4 3A4 354 377 4A6 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	21-1	1149	Sat	VV HR 7G TOYR PSE CY NR 066 CK 21 35 0121 1512 = 5TD UTT TUA 3U6 7TA N.4 3A4 354 377 4A6 ... //4243 kHz	CW	(JPL-NZL)
M95	4243	22-1	0852	Sun	NR ONS 8 CK 26 35 0122 1533 = 5TD UTT TUU 3U6 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	22-1	0852	Sun	NR ONS 8 CK 26 35 0122 1533 = 5TD UTT TUU 3U6 ...	CW	(JPL-NZL)

					//4243 kHz		
M95	7553	22-1	0913	Sun	BNEC (x3) DE XSV70 (x2) V HR MSG TOYR PSE CY NR 065 CK 102 35 0122 1535 7A7 UT3 TUU 3U6 3A4 TT4 773 35A U46 ...	CW	(JPL-NZL)
M95	4243	23-1	0857	Mon	VV HR MSG TOYR PSE CY NR 070 CK 17 35 0123 1531 = 5TD UTT TU3 3U6 3A4 356 4TA U7U N4A 434 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	23-1	0857	Mon	VV HR MSG TOYR PSE CY NR 070 CK 17 35 0123 1531 = 5TD UTT TU3 3U6 3A4 356 4TA U7U N4A 434 ... //4243 kHz	CW	(JPL-NZL)
M95	7553	23-1	0915	Mon	BNEC (x3) DE XSV70 (x2) V HR MSG TO YR PSE CY NR 068 CK 94 35 0123 1553 7A7 UT3 TU3 3U6 3A4 TT4 773 35A ... //9156 kHz	CW	(JPL-NZL)
M95	9156	23-1	0915	Mon	BNEC (x3) DE XSV70 (x2) V HR MSG TO YR PSE CY NR 068 CK 94 35 0123 1553 7A7 UT3 TU3 3U6 3A4 TT4 773 35A ... //7553 kHz	CW	(JPL-NZL)
M95	4364	31-1	1140	Tue	V BNGC (x3) DE XSV85 (x2) HR MSGS GA NR 0110 CK 240 35 0131 1521 = T3A 3U6 3TT 3U7 TTU ... //8073 kHz	CW	(JPL-NZL)
M95	8073	31-1	1140	Tue	V BNGC (x3) DE XSV85 (x2) HR MSGS GA NR 0110 CK 240 35 0131 1521 = T3A 3U6 3TT 3U7 TTU ... //4364 kHz	CW	(JPL-NZL)
M95	4243	31-1	1150	Tue	VV HR MSG TO YR PSE CY NR 086 CK 29 35 0131 1518 = 5T. UTT T3A 3A6 7TA N44 3A4 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	31-1	1150	Tue	VV HR MSG TO YR PSE CY NR 086 CK 29 35 0131 1518 = 5T. UTT T3A 3A6 7TA N44 3A4 ... //4243 kHz	CW	(JPL-NZL)
MX	5153.7	4-1	2047	Wed	Beacon P, Kaliningrad	CW	(MPJ)
MX	5153.8	17-1	0005	Tue	Beacon P, Kaliningrad	CW	(GNL)
MX	5154	17-1	0005	Tue	Beacon C, Moscow	CW	(GNL)
MX	5156.9	17-1	0005	Tue	Beacon L, St Petersburg	CW	(GNL)
MX	7508.7	17-1	0025	Tue	Beacon D, Sevastopol	CW	(GNL)
MX	13528	17-1	1105	Tue	Beacon C, Moscow	CW	(RL-HOL)
MX	5156.9	19-1	0039	Thu	Beacon L	CW	(GNL)
MX	5153.8	19-1	0043	Thu	Beacon P	CW	(GNL)
MX	3335	19-1	2352	Thu	Beacon V	CW	(GNL)
MX	16332	20-1	1442	Fri	Beacon C, Moscow	CW	(RL-HOL)
MX	5156.9	21-1	0006	Sat	Beacon L	CW	(GNL)
MX	3335	21-1	0030	Sat	Beacon V	CW	(GNL)
MX	8494.7	23-1	2253	Mon	Beacon D, Sevastopol	CW	(GNL)
MX	7508.7	23-1	2257	Mon	Beacon D, Sevastopol	CW	(GNL)
MX	5156.9	23-1	2311	Mon	Beacon L, St Petersburg	CW	(GNL)
MX	5154	23-1	2312	Mon	Beacon C, Moscow	CW	(GNL)
MX	4557.7	23-1	2315	Mon	Beacon D, Sevastopol	CW	(GNL)
MX	4558	23-1	2315	Mon	Beacon C, Moscow	CW	(GNL)
MX	5069	29-1	0332	Sun	Beacon V	CW	(GNL)
Q26	8073	1-1	1132	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7618	1-1	1422	Sun	XYXYXYXYXYXY HR CY GD QSL2218 AHR BOZ NIL SK HW?	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8073	2-1	1135	Mon	Message	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4364	3-1	1131	Tue	Message //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	3-1	1131	Tue	Message //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	4-1	1131	Wed	Message	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	4-1	1143	Wed	Message //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	4-1	1143	Wed	Message //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	6-1	1131	Fri	Message	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	6-1	1141	Fri	Message //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	6-1	1141	Fri	Message //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)

Q26	8073	7-1	1200	Sat	Message 3FGs	4+4 QPSK 75/3000 LSB	(EW)
Q26	7553	8-1	1302	Sun	NR024 CK143 35 0108 1535 -- 717 203 008 326 004 773 318 353 420 445 ... //9153 kHz	4+4 QPSK 75/3000 LSB	(JPL-J)
Q26	9153	8-1	1302	Sun	Message i.p.	4+4 QPSK 75/3000 LSB	(JPL-J)
Q26	9153	8-1	1302	Sun	NR024 CK143 35 0108 1535 -- 717 203 008 326 004 773 318 353 420 445 ... //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-J)
Q26	8073	8-1	1313	Sun	Message i.p.	4+4 QPSK 75/3000 LSB	(JPL-J)
Q26	8073	11-1	1131	Wed	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9058	14-1	0842	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7553	14-1	0901	Sat	Messages //9153 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9153	14-1	0901	Sat	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4283	14-1	1300	Sat	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7553	14-1	1300	Sat	Messages //4283 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7968	16-1	1403	Mon	XYXYXY YJVZ ANS HR CY U QSA3 XXXXXX	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	19-1	1131	Thu	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	19-1	1200	Thu	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	19-1	1200	Thu	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4283	20-1	1900	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	21-1	1134	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	21-1	1146	Sat	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	21-1	1146	Sat	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7553	22-1	0908	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7708	22-1	1508	Sun	6YXYTYXYXY QSL 2311 AHR BOZ NIL SK.R DOUROEMQ EURO YQOR YTO 7126 6849 1712 4901 6073 3503 2750?6580 9150 4:7! 2515 QSL	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	23-1	0853	Mon	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	23-1	0853	Mon	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7553	23-1	0903	Mon	Messages //9156 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9156	23-1	0903	Mon	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	29-1	2342	Sun	Messages	4+4 QPSK 75/3000 LSB	(Dan)
Q26	4364	31-1	1132	Tue	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	31-1	1132	Tue	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	31-1	1144	Tue	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	31-1	1144	Tue	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
S06	7607	6-1	2000	Fri	514 514 514 000	USB	(HFD)
S06	5412	6-1	2100	Fri	514 514 514 000	USB	(HFD)
S06	4012	7-1	2000	Sat	913 913 913 000	USB	(HFD)

S06	3408	7-1	2100	Sat	913 913 913 000	USB	(HFD)
S06	16243	12-1	0830	Thu	842 139 48 29363 90193 69170 ... 63789 98165 04842 138 48 00000	USB	(AB-J)
S06	13469	12-1	0930	Thu	842 139 48 29363 90193 69170 ... 63789 98165 04842 138 48 00000	USB	(AB-NZL)
S06	9463	17-1	1000	Tue	480 621 43 73995 85328 87650 ... 55206 60429 13963 621 43 00000	USB	(ES)
S06	10159	17-1	1230	Tue	480 621 43 73995 85328 87650 ... 55206 60429 13963 621 43 00000 //10254 kHz	USB	(ES)
S06	10254	17-1	1230	Tue	480 621 43 73995 85328 87650 ... 55206 60429 13963 621 43 00000 //10159 kHz	USB	(ES)
S06	9337	17-1	1300	Tue	480 621 43 73995 85328 87650 ... 55206 60429 13963 621 43 00000	USB	(ES)
S06	16243	19-1	0830	Thu	842 506 49 97125 70813 65713 ... 42852 70741 41798 506 49 00000	USB	(AB)
S06	13469	19-1	0930	Thu	842 506 49 97125 70813 65713 ... 42852 70741 41798 506 49 00000	USB	(AB/HFD)
S06	16243	20-1	0830	Fri	842 506 49 97125 70813 65713 ... 42852 70741 41798 506 49 00000	USB	(AB)
S06	13469	20-1	0930	Fri	842 506 49 97125 70813 65713 ... 42852 70741 41798 506 49 00000	USB	(AB)
S06	7607	20-1	2000	Fri	516 516 516 00000	USB	(AB)
S06	4012	21-1	2000	Sat	913 913 913 00000	USB	(AB)
S06	9463	24-1	1000	Tue	480 267 41 67421 97700 61483 ... 87099 87476 80378 267 41 00000	USB	(ES)
S06	12164	24-1	1030	Tue	480 267 41 67421 97700 61483 ... 87099 87476 80378 267 41 00000	USB	(AB/ES)
S06	9337	24-1	1230	Tue	480 267 41 67421 97700 61483 ... 87099 87476 80378 267 41 00000	USB	(ES)
S06	8077	24-1	1300	Tue	480 267 41 67421 97700 61483 ... 87099 87476 80378 267 41 00000	USB	(ES)
S06	16243	26-1	0830	Thu	842 137 50 00010 38588 93250 ... 09345 12677 64128 137 50 00000	USB	(AB)
S06	13469	26-1	0930	Thu	842 137 50 00010 38588 93250 ... 09345 12677 64128 137 50 00000	USB	(AB)
S06	16243	27-1	0830	Fri	842 137 50 00010 38588 93250 ... 09345 12677 64128 137 50 00000	USB	(AB/HFD-HK)
S06	13469	27-1	0930	Fri	842 137 50 00010 38588 93250 ... 09345 12677 64128 137 50 00000	USB	(AB/HFD-HK)
S06	9463	31-1	1000	Tue	480 527 43 99625 71339 55044 77254 00000	USB	(ES)
S06	12164	31-1	1033	Tue	i.p. 480 527 527 43 43 996 then off	USB	(AB)
S06	9337	31-1	1230	Tue	480 527 43 99625 71339 55044 77254 00000	USB	(ES)
S06	8077	31-1	1300	Tue	480 527 43 99625 71339 55044 77254 00000	USB	(ES)
S06s	8057	2-1	0830	Mon	371 290 5 33796 13577 74526 46647 79302 290 5 00000	USB	(AB)
S06s	8530	2-1	0840	Mon	371 290 5 33796 13577 74526 46647 79302 290 5 00000	USB	(AB)
S06s	14675	2-1	0900	Mon	872 930 5 10597 23521 47550 92883 69901 930 5 00000	USB	(AB)
S06s	12830	2-1	0910	Mon	872 930 5 10597 23521 47550 92883 69901 930 5 00000	USB	(AB)
S06s	11945	3-1	0800	Tue	352 847 6 52401 63919 8 92699 14600 74248 48754 847 6 00000	USB	(AB)
S06s	13195	3-1	0810	Tue	352 847 6 52401 63919 8 92699 14600 74248 48754 847 6 00000	USB	(AB)
S06s	6845	3-1	1500	Tue	537 201 6 15690 85544 34558 49232 43249 33666 201 6 00000	USB	(AB)
S06s	9170	3-1	1510	Tue	537 201 6 15690 85544 34558 49232 43249 33666 201 6 00000	USB	(AB)
S06s	8417	4-1	0820	Wed	471 589 6 92883 69901 10597 22531 16949 84116 589 6 00000	USB	(AB)
S06s	7062	4-1	0830	Wed	464 817 5 35620 37392 37723 36946 32814 817 5 00000	USB	(Danix)
S06s	9262	4-1	0830	Wed	471 589 6 92883 69901 10597 22531 16949 84116 589 6 00000	USB	(AB)
S06s	11535	4-1	0830	Wed	745 938 6 32831 89130 37383 34643 30492 02198 938 6 00000	USB	(AB)
S06s	10532	4-1	0840	Wed	464 817 5 35620 37392 37723 36946 32814 817 5 00000	USB	(Danix)
S06s	11830	4-1	0840	Wed	745 938 6 32831 89130 37383 34643 30492 02198 938 6	USB	(AB)

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S06s	12365	4-1	1000	Wed	729 834 5 44745 16330 88418 30480 88650 834 5 00000	USB	(AB)
S06s	14280	4-1	1010	Wed	729 834 5 44745 16330 88418 30480 88650 834 5 00000	USB	(AB)
S06s	8812	5-1	0930	Thu	314 968 5 96320 36793 53038 76342 15009 968 5 00000	USB	(AB)
S06s	9540	5-1	0940	Thu	314 968 5 96320 36793 53038 76342 15009 968 5 00000	USB	(AB)
S06s	12155	5-1	1200	Thu	425 917 6 88146 57856 98835 46186 16945 80744 917 6 00000	USB	(AB)
S06s	10920	5-1	1210	Thu	425 917 6 88146 57856 98835 46186 16945 80744 917 6 00000	USB	(AB)
S06s	11780	6-1	0930	Fri	516 983 7 20534 11160 43494 37638 16070 48834 53735 983 7 00000	USB	(AB)
S06s	12570	6-1	0940	Fri	516 983 7 20534 11160 43494 37638 16070 48834 53735 983 7 00000	USB	(AB)
S06s	8680	7-1	0800	Sat	254 810 6 34031 33430 37536 34906 35455 94372 810 6 00000	USB	(AB)
S06s	8260	7-1	0810	Sat	254 810 6 34031 33430 37536 34906 35455 94372 810 6 00000	USB	(AB)
S06s	8057	9-1	0830	Mon	371 290 5 33796 13577 74526 46647 79302 290 5 00000	USB	(AB-I)
S06s	8530	9-1	0840	Mon	371 290 5 33796 13577 74526 46647 79302 290 5 00000	USB	(AB-I)
S06s	14675	9-1	0900	Mon	872 930 5 10597 23521 47550 92883 69901 930 5 00000	USB	(AB-I)
S06s	12830	9-1	0910	Mon	872 930 5 10597 23521 47550 92883 69901 930 5 00000	USB	(AB-I)
S06s	8420	9-1	1300	Mon	831 927 5 48115 24151 51802 23807 15521 927 5 00000	USB	(AB)
S06s	10635	9-1	1310	Mon	831 927 5 48115 24151 51802 23807 15521 927 5 00000	USB	(AB)
S06s	5250	10-1	0700	Tue	374 512 6 23247 17099 94961 35826 78927 34694 512 6 00000	USB	(AB)
S06s	6320	10-1	0715	Tue	374 512 6 23247 17099 94961 35826 78927 34694 512 6 00000	USB	(AB)
S06s	11945	10-1	0800	Tue	352 847 6 52401 63919 8 92699 14600 74248 48754 847 6 00000	USB	(AB)
S06s	13195	10-1	0810	Tue	352 847 6 52401 63919 8 92699 14600 74248 48754 847 6 00000	USB	(AB)
S06s	5035	10-1	1100	Tue	754 213 6 41347 85557 43311 88222 47840 14987 213 6 00000	USB	(AB)
S06s	5975	10-1	1110	Tue	754 213 6 41347 85557 43311 88222 47840 14987 213 6 00000	USB	(AB)
S06s	10254	10-1	1230	Tue	Unscheduled transmission i.p. 480 312 45 50135 80378 77662 ... 10418 29009 56318 312 45 00000	USB	(Edd-HOL)
S06s	6845	10-1	1500	Tue	537 201 6 15690 85544 34558 49232 43249 33666 201 6 00000	USB	(AB)
S06s	9170	10-1	1510	Tue	537 201 6 15690 85544 34558 49232 43249 33666 201 6 00000	USB	(AB)
S06s	8417	11-1	0820	Wed	471 589 6 92883 69901 10597 22531 16949 84116 589 6 00000	USB	(AB)
S06s	7062	11-1	0830	Wed	464 873 5 33796 13577 74526 46646 69302 973 5 00000	USB	(AB)
S06s	9262	11-1	0830	Wed	471 589 6 92883 69901 10597 22531 16949 84116 589 6 00000	USB	(AB)
S06s	11535	11-1	0830	Wed	745 938 6 32831 89130 37383 34643 30492 02198 938 6 00000	USB	(AB)
S06s	10532	11-1	0840	Wed	464 873 5 33796 13577 74526 46646 69302 973 5 00000	USB	(AB)
S06s	11830	11-1	0840	Wed	745 938 6 32831 89130 37383 34643 30492 02198 938 6 00000	USB	(AB)
S06s	12365	11-1	1000	Wed	729 834 5 44745 16330 88418 30480 88650 834 5 00000	AM	(AB)
S06s	14280	11-1	1010	Wed	729 834 5 44745 16330 88418 30480 88650 834 5 00000	AM	(AB)
S06s	8812	12-1	0930	Thu	314 968 5 96320 36793 53038 76342 15009 968 5 00000	USB	(AB)
S06s	9540	12-1	0940	Thu	314 968 5 96320 36793 53038 76342 15009 968 5 00000	USB	(AB)
S06s	12155	12-1	1200	Thu	425 917 6 88146 57856 98835 46186 16945 80744 917 6 00000	USB	(AB)
S06s	10920	12-1	1210	Thu	425 917 6 88146 57856 98835 46186 16945 80744 917 6 00000	USB	(AB)
S06s	11780	13-1	0930	Fri	516 983 7 20534 11160 43494 37638 16070 48834 53735 983 7 00000	USB	(AB)
S06s	12570	13-1	0940	Fri	516 983 7 20534 11160 43494 37638 16070 48834 53735 983 7 00000	USB	(AB)

S06s	8057	16-1	0830	Mon	371 480 5 31653 46933 35868 47892 37858 480 5 00000	USB	(AB)
S06s	8530	16-1	0840	Mon	371 480 5 31653 46933 35868 47892 37858 480 5 00000	USB	(AB)
S06s	14675	16-1	0900	Mon	872 490 5 32474 32388 49873 31492 34793 490 5 00000	USB	(AB-I)
S06s	12830	16-1	0910	Mon	872 490 5 32474 32388 49873 31492 34793 490 5 00000	USB	(AB-I)
S06s	8420	16-1	1300	Mon	831 965 7 40951 35790 31868 37023 31760 46556 31578 965 7 00000	USB	(AB)
S06s	10635	16-1	1310	Mon	831 965 7 40951 35790 31868 37023 31760 46556 31578 965 7 00000	USB	(AB/MPJ)
S06s	5250	17-1	0700	Tue	374 528 6 41645 35709 36414 49790 32639 39730 528 6 00000	USB	(AB)
S06s	6320	17-1	0715	Tue	374 528 6 41645 35709 36414 49790 32639 39730 528 6 00000	USB	(AB)
S06s	7410	17-1	0730	Tue	427 803 5 38034 37823 38230 48235 38702 803 5 00000	USB	(AB)
S06s	11532	17-1	0740	Tue	427 803 5 38034 37823 38230 48235 38702 803 5 00000	USB	(AB)
S06s	11945	17-1	0800	Tue	352 870 6 47694 45680 45089 32417 39736 35697 870 6 00000	USB	(AB)
S06s	13195	17-1	0810	Tue	352 870 6 47694 45680 45089 32417 39736 35697 870 6 00000	USB	(AB)
S06s	5660	17-1	1010	Tue	893 251 6 32391 38632 35044 41354 31663 41731 251 6 00000	USB	(AB)
S06s	5035	17-1	1100	Tue	754 230 6 32863 32582 38053 33231 42923 42032 230 6 00000	USB	(AB-POL)
S06s	5975	17-1	1110	Tue	754 230 6 32863 32582 38053 33231 42923 42032 230 6 00000	USB	(AB-POL)
S06s	6845	17-1	1500	Tue	537 218 6 34173 32391 38632 35044 41354 31717 218 6 00000	USB	(AB)
S06s	8417	18-1	0820	Wed	471 920 5 37979 37681 32817 38732 32863 920 5 00000	USB	(AB)
S06s	7062	18-1	0830	Wed	464 295 7 37324 39316 35660 30387 53085 36310 39739 295 7 00000	USB	(AB)
S06s	9262	18-1	0830	Wed	471 920 5 37979 37681 32817 38732 32863 920 5 00000	USB	(AB)
S06s	11535	18-1	0830	Wed	745 280 6 38105 42424 81310 42873 39245 37374 280 6 00000	AM	(AB)
S06s	10532	18-1	0840	Wed	464 295 7 37324 39316 35660 30387 53085 36310 39739 295 7 00000	USB	(AB)
S06s	11830	18-1	0840	Wed	745 280 6 38105 42424 81310 42873 39245 37374 280 6 00000	AM	(AB)
S06s	12365	18-1	1000	Wed	729 841 5 36138 39315 38868 30447 31788 841 5 00000	USB	(AB/ES)
S06s	14280	18-1	1010	Wed	729 841 5 36138 39315 38868 30447 31788 841 5 00000. Operator chat after the transmission	USB	(AB/ES)
S06s	8812	19-1	0930	Thu	314 820 5 38034 37823 38230 08235 38702 820 5 00000	USB	(AB)
S06s	9540	19-1	0940	Thu	314 820 5 38034 37823 38230 08235 38702 820 5 00000	USB	(AB)
S06s	12155	19-1	1200	Thu	425 870 6 39382 45739 49645 32975 45356 49396 870 6 00000	USB	(AB/ES)
S06s	10920	19-1	1210	Thu	425 870 6 39382 45739 49645 32975 45356 49396 870 6 00000	USB	(AB)
S06s	5765	20-1	0900	Fri	624 958 7 33322 33383 47789 37938 42112 43936 40252 958 7 00000	USB	(AB)
S06s	6315	20-1	0910	Fri	624 958 7 33322 33383 47789 37938 42112 43936 40252 958 7 00000	USB	(AB)
S06s	11780	20-1	0930	Fri	516 849 7 46125 36533 48389 49877 43257 38902 44069 849 7 00000	USB	(AB)
S06s	12570	20-1	0940	Fri	516 849 7 46125 36533 48389 49877 43257 38902 44069 849 7 00000	USB	(AB)
S06s	8057	23-1	0830	Mon	371 480 5 31653 46933 35868 47892 37858 480 5 00000	USB	(AB)
S06s	8530	23-1	0840	Mon	371 480 5 31653 46933 35868 47892 37858 480 5 00000	USB	(AB)
S06s	14675	23-1	0900	Mon	872 490 5 32474 32388 49873 31492 34793 490 5 00000	USB	(AB)
S06s	12830	23-1	0910	Mon	872 490 5 32474 32388 49873 31492 34793 490 5 00000	USB	(AB)
S06s	8420	23-1	1300	Mon	831 965 7 40951 35790 31868 37023 31760 46556 31578 965 7 00000	USB	(AB)
S06s	10635	23-1	1310	Mon	831 965 7 40951 35790 31868 37023 31760 46556 31578 965 7 00000	USB	(AB)
S06s	14240	24-1	0610	Tue	438 917 5 ...	USB	(AB-I)
S06s	5250	24-1	0700	Tue	374 528 6 41645 35709 36414 49790 32639 39730 528 6 00000	USB	(AB)

S06s	6320	24-1	0715	Tue	374 528 6 41645 35709 36414 49790 32639 39730 528 6 00000	USB	(AB)
S06s	7410	24-1	0730	Tue	427 803 5 38034 37823 38230 48235 38702 803 5 00000	USB	(AB)
S06s	11532	24-1	0740	Tue	427 803 5 38034 37823 38230 48235 38702 803 5 00000	USB	(AB)
S06s	11945	24-1	0800	Tue	352 870 6 47694 45680 45089 32417 39736 35697 870 6 00000	USB	(AB)
S06s	13195	24-1	0810	Tue	352 870 6 47694 45680 45089 32417 39736 35697 870 6 00000	USB	(AB)
S06s	6440	24-1	1000	Tue	893 251 6 32391 38632 35044 41354 31663 41731 251 6 00000	USB	(AB/ES)
S06s	5660	24-1	1010	Tue	893 251 6 32391 38632 35044 41354 31663 41731 251 6 00000	USB	(AB)
S06s	5035	24-1	1100	Tue	754 230 6 32863 32582 38053 33231 42923 42032 230 6 00000	USB	(AB-POL)
S06s	5975	24-1	1110	Tue	754 230 6 32863 32582 38053 33231 42923 42032 230 6 00000	USB	(AB-POL)
S06s	6845	24-1	1500	Tue	537 218 6 34173 32391 38632 35044 41354 31717 218 6 00000	USB	(AB)
S06s	9170	24-1	1510	Tue	537 218 6 34173 32391 38632 35044 41354 31717 218 6 00000	USB	(AB)
S06s	8417	25-1	0820	Wed	471 920 5 37979 37681 32817 38732 32863 920 5 00000	USB	(AB)
S06s	7062	25-1	0830	Wed	464 295 7 37324 39316 35660 30387 53085 36310 39739 295 7 00000	USB	(AB)
S06s	9262	25-1	0830	Wed	471 920 5 37979 37681 32817 38732 32863 920 5 00000	USB	(AB)
S06s	11535	25-1	0830	Wed	745 280 6 38105 42424 81310 42873 39245 37374 280 6 00000	AM	(AB)
S06s	10532	25-1	0840	Wed	464 295 7 37324 39316 35660 30387 53085 36310 39739 295 7 00000	USB	(AB)
S06s	11830	25-1	0840	Wed	745 280 6 38105 42424 81310 42873 39245 37374 280 6 00000	AM	(AB)
S06s	12365	25-1	1000	Wed	729 841 5 36138 39315 38868 30447 31788 841 5 00000	USB	(AB)
S06s	14280	25-1	1010	Wed	729 841 5 36138 39315 38868 30447 31788 841 5 00000. Operator chat after the transmission	USB	(AB/ES)
S06s	8812	26-1	0930	Thu	314 820 5 38034 37823 38230 08235 38702 820 5 00000	USB	(AB/ES)
S06s	9540	26-1	0940	Thu	314 820 5 38034 37823 38230 08235 38702 820 5 00000	USB	(AB)
S06s	12155	26-1	1200	Thu	425 870 6 39382 45739 49645 32975 45356 49396 870 6 00000	USB	(AB/ES)
S06s	10920	26-1	1210	Thu	425 870 6 39382 45739 49645 32975 45356 49396 870 6 00000	USB	(AB)
S06s	5765	27-1	0900	Fri	624 958 7 33322 33383 47789 37938 42112 43936 40252 958 7 00000	USB	(AB)
S06s	6315	27-1	0910	Fri	624 958 7 33322 33383 47789 37938 42112 43936 40252 958 7 00000	USB	(AB)
S06s	11780	27-1	0930	Fri	516 849 7 46125 36533 48389 49877 43257 38902 44069 849 7 00000	AM	(AB)
S06s	12570	27-1	0940	Fri	516 849 7 46125 36533 48389 49877 43257 38902 44069 849 7 00000	AM	(AB)
S06s	13470	29-1	0630	Sun	524 524 524 00000	USB	(AB/HFD)
S06s	16515	29-1	0640	Sun	524 524 524 00000	USB	(AB/HFD)
S06s	8057	30-1	0830	Mon	371 371 371 00000	USB	(AB)
S06s	8530	30-1	0840	Mon	371 371 371 00000	USB	(AB)
S06s	14675	30-1	0900	Mon	872 872 872 00000	USB	(AB)
S06s	12830	30-1	0910	Mon	872 872 872 00000	USB	(AB)
S06s	8420	30-1	1300	Mon	831 831 831 00000	USB	(AB/MPJ)
S06s	10635	30-1	1310	Mon	831 831 831 00000	USB	(AB)
S06s	16145	31-1	0600	Tue	428 428 428 00000	USB	(ES)
S06s	14240	31-1	0609	Tue	438 438 438 00000. Early start	USB	(AB-I)
S06s	5250	31-1	0700	Tue	374 374 374 00000	USB	(AB)
S06s	6320	31-1	0715	Tue	374 374 374 00000	USB	(AB)
S06s	7410	31-1	0730	Tue	427 427 427 00000	USB	(AB)
S06s	11532	31-1	0740	Tue	427 427 427 00000	USB	(AB)
S06s	11945	31-1	0800	Tue	352 352 352 00000	USB	(AB)
S06s	13195	31-1	0810	Tue	352 352 352 00000	USB	(AB)

S06s	6440	31-1	1000	Tue	893 893 893 00000	USB	(AB)
S06s	5660	31-1	1010	Tue	893 893 893 00000	USB	(AB)
S06s	5035	31-1	1100	Tue	754 754 754 00000	USB	(AB-POL)
S06s	5975	31-1	1110	Tue	754 754 754 00000	USB	(AB-POL)
S06s	6845	31-1	1500	Tue	537 537 537 00000	USB	(AB)
S06s	9170	31-1	1510	Tue	537 537 537 00000	USB	(AB)
S11a	12530	2-1	1015	Mon	477/00	USB	(AB-GRC)
S11a	7504	3-1	0915	Tue	486/00	USB	(AB)
S11a	9610	3-1	1020	Tue	424/00	USB	(AB)
S11a	5815	4-1	1955	Wed	376/00	USB	(AB/MPJ)
S11a	12530	5-1	1015	Thu	477/00	USB	(AB)
S11a	4828	6-1	0455	Fri	320/00	USB	(AB)
S11a	7504	6-1	0915	Fri	481/00	USB	(AB)
S11a	9610	6-1	1020	Fri	426/00	USB	(AB/MPJ)
S11a	5815	6-1	1955	Fri	371/00	USB	(AB/MPJ)
S11a	10728	7-1	1547	Sat	Message i.p.	USB	(AB)
S11a	12530	9-1	1015	Mon	477/00	USB	(AB-GRC)
S11a	7504	10-1	0915	Tue	484/00	USB	(AB)
S11a	9610	10-1	1020	Tue	429/00	USB	(AB)
S11a	10728	11-1	1540	Wed	560/00	USB	(MPJ)
S11a	5815	11-1	1955	Wed	373/36 Vnimanije 68730 17882 78078 ... 03631 85419 70095 Vnimanije, rpt msg, konets	USB	(AB)
S11a	12530	12-1	1015	Thu	472/36 Vnimanije 17545 45087 58038 ... 59538 68326 88656 Vnimanije, rpt msg, konets	USB	(AB)
S11a	7504	13-1	0915	Fri	487/00	USB	(AB)
S11a	9610	13-1	1020	Fri	426/00	USB	(AB)
S11a	5815	13-1	1955	Fri	373/36 Vnimanije 68730 17882 78078 ... 03631 85419 70095 Vnimanije, rpt msg, konets	USB	(AB)
S11a	10728	14-1	1540	Sat	565/00	USB	(MPJ)
S11a	12530	16-1	1015	Mon	479/00	USB	(AB-GRC)
S11a	7504	17-1	0915	Tue	484/00	USB	(AB)
S11a	9610	17-1	1020	Tue	421/37 Vnimanije 09789 56187 95167 ... 40482 82147 88175 Vnimanije, rpt msg, konets	USB	(AB/ES)
S11a	10728	18-1	1540	Wed	564/00	USB	(AB/MPJ)
S11a	5815	18-1	1955	Wed	373/00	USB	(AB)
S11a	12530	19-1	1015	Thu	barely audible.	USB	(ES)
S11a	4828	20-1	0455	Fri	320/40 Vnimanije 50009 88139 84762 43348 02684 57591 Vnimanije, rpt msg, konets	USB	(ES)
S11a	7504	20-1	0915	Fri	481/00	USB	(AB)
S11a	9610	20-1	1028	Fri	Message i.p.	USB	(AB)
S11a	5815	20-1	1955	Fri	373/00	USB	(AB/MPJ)
S11a	10728	21-1	1540	Sat	567/00	USB	(MPJ)
S11a	19099	23-1	0715	Mon	381/00	USB	(HFD-AUT)
S11a	12530	23-1	1015	Mon	476/00	USB	(AB)
S11a	7504	24-1	0915	Tue	480/37 Vnimanije 79875 91452 47396 ... 01951 50025 46615 Attention, rpt msg, out	USB	(AB)
S11a	9610	24-1	1020	Tue	427/00	USB	(AB/MPJ/ES)
S11a	10728	25-1	1540	Wed	567/00	USB	(AB)
S11a	5815	25-1	1955	Wed	371/00	USB	(AB/MPJ)
S11a	12530	26-1	1015	Thu	471/00	USB	(AB/ES)
S11a	9130	26-1	1102	Thu	i.p. Vnimanije 56103 15441 86957 74147 ...	USB	(ES)
S11a	9130	26-1	1132	Thu	i.p. Vnimanije 64473 68313 55804 58648 ...	USB	(ES)
S11a	7504	27-1	0915	Fri	480/37 Vnimanije 79875 91452 47396 ... 01951 50025 46615 Attention, rpt msg, out	USB	(AB)
S11a	9610	27-1	1020	Fri	429/00	USB	(AnEur)
S11a	5815	27-1	1955	Fri	378/00	USB	(AB/MPJ)
S11a	10728	28-1	1540	Sat	565/00	USB	(MPJ)
S11a	12530	30-1	1015	Mon	570/00	USB	(MPJ)
S11a	4828	31-1	0455	Tue	327/00	USB	(AB)
S11a	7504	31-1	0915	Tue	487/00	USB	(AB/ES)
S11a	9610	31-1	1020	Tue	427/00	USB	(ES)
S28	4625	2-1	1232	Mon	ZHUOZ 15818 KORDOSLOT 99013553. Female voice in the	USB	(Priyom)

					background		
S28	4625	2-1	1359	Mon	ZhUOZ 80321 GIACINTOVYJ 42815666	USB	(Priyom)
S28	4625	4-1	1429	Wed	ZhUOZ 24760 KORZhOVNUK 14851546. Female voice in the background	USB	(Priyom)
S28	4625	5-1	1245	Thu	ZhUOZ 06243 GROShOLIN' 46130694. Female voice in then background. Sboj (error) during the repeat	USB	(Priyom)
S28	4625	5-1	1252	Thu	ZhUOZ 70247 GRUZOKLYuCh 66053566. Female voice in the background	USB	(Priyom)
S28	4625	5-1	1311	Thu	ZhUOZ 89127 ALOGICHNYJ 45413922	USB	(Priyom)
S28	4625	5-1	1349	Thu	ZhUOZ 75457 KURAZh 89879441. Female voice in the background	USB	(Priyom)
S28	4625	5-1	1355	Thu	ZhUOZ 35101 ZLATOGLAZIK 44437430. Female voice in the background	USB	(Priyom)
S28	4625	5-1	1412	Thu	ZhUOZ 27878 DVOROBYK 13494148. Female voice in the background	USB	(Priyom)
S28	4625	8-1	1222	Sun	ZhUOZ 04930 DONORNYJ 32872445. Female voice in the background	USB	(Priyom)
S28	4625	8-1	1228	Sun	ZhUOZ 55924 BYeGOTAT 27577493	USB	(Priyom)
S28	4625	10-1	1822	Tue	Buzzer channel marker	USB	(BvR)
S28	4625	13-1	1216	Fri	Channel separation failure on relay line. This could only be heard from Naro-Fominsk site. Male voice in the recording saying: Could not hear you at all. Please give me the generator	USB	(Priyom)
S28	4625	19-1	0949	Thu	ZhUOZ 57107 KYePOChKA 08084714. Female on background reads another signal	USB	(Priyom)
S28	4625	19-1	0958	Thu	ZhUOZ 57875 KOMPOVIS 45303735 VIDOVIST 42755407. Female voice on background: Operative duty officer...	USB	(Priyom)
S28	4625	19-1	1027	Thu	ZhUOZ 25712 BLINOSHARM 62908777 BYeSSMYSLIYe 02263006	USB	(Priyom)
S28	4625	19-1	1137	Thu	ZhUOZ 83157 KOLOBOK 36907971	USB	(Priyom)
S28	4625	23-1	1059	Mon	ZhUOZ 94438 VIZGOHALL 42215625	USB	(Priyom)
S28	4625	23-1	1533	Mon	ZhUOZ 05971 ZAYeMORIFT 53540437	USB	(Priyom)
S28	4625	23-1	1603	Mon	ZhUOZ 35914 GRYaZNUHA 02424938 KAZACHOK 84730640	USB	(Priyom)
S28	4625	23-1	1700	Mon	ZhUOZ 05651 KONYuNKCIYa 63540055 GRUZINSKIJ 53976660	USB	(Priyom)
S28	4625	23-1	1708	Mon	ZhUOZ 68420 BYeZDOZhD'Ye 95044797. Female voice on background	USB	(Priyom)
S28	4625	25-1	0807	Wed	ZhUOZ 95018 ULYeTOKOK 80089378	USB	(Priyom)
S28	4625	25-1	0819	Wed	ZhUOZ 18323 BORTOSRAM 11150101	USB	(Priyom)
S28	4625	25-1	0831	Wed	ZhUOZ 60765 AKVILON 66491076. Voices on background	USB	(Priyom)
S28	4625	25-1	0851	Wed	ZhUOZ 95960 KAPIL'ShchICA 45390562 ARABOTAU 86356499. Female voice on background	USB	(Priyom)
S28	4625	25-1	0900	Wed	ZhUOZ 39108 ILIMOLIFT 09396271	USB	(Priyom)
S28	4625	25-1	0922	Wed	ZhUOZ ZAVOGUZh 5342	USB	(Priyom)
S28	4625	25-1	0936	Wed	ZhUOZ 92519 VRACHOSHARZh 12300601	USB	(Priyom)
S28	4625	25-1	0954	Wed	ZhUOZ 55089 GITOSHVED 38883491. Female voice on background	USB	(Priyom)
S28	4625	25-1	1021	Wed	ZhUOZ 53659 BORTOSRAM 13162501	USB	(Priyom)
S28	4625	25-1	1130	Wed	ZhUOZ 51290 APISOHLOP 94333186 KOVYChKA 85616082. Female voice on background	USB	(Priyom)
S28	4625	25-1	1146	Wed	ZhUOZ 19289 DOMOTKANYJ 31152875 BOLTOLoGIYa 09051980 KUMOChYeH 03012002. Female voice on background saying: Operative duty officer... and reading another message	USB	(Priyom)
S28	4625	25-1	1149	Wed	ZhUOZ 49912 ZhOHOSAK 77012547	USB	(Priyom)
S28	4625	25-1	1216	Wed	ZhUOZ 76575 KLADOSHik 87606507. Phone rings on background	USB	(Priyom)
S28	4625	29-1	1231	Sun	ZhUOZ 65180 VAZYeLINOvyJ 56617621 KZOTOFINN 95743016 DAMPOLYaD 61298274. Sboj (error) in the begining	USB	(Priyom)
S28	4625	29-1	1300	Sun	ZhUOZ 72823 DOLIVAN'Ye 49174192. Female voice on background	USB	(Priyom)
S28	4625	29-1	1327	Sun	ZhUOZ 09726 BIMSOVAL 48273820. Female voice on background	USB	(Priyom)

S28	4625	29-1	1408	Sun	ZhUOZ 89950 DZhUTOGOT 35179941	USB	(Priyom)
S28	4625	29-1	1432	Sun	ZhUOZ 88572 VSYeZNAJKA 20868577	USB	(Priyom)
S28	4625	30-1	0927	Mon	ZhUOZ 00329 ZhAL'CYe 40218103	USB	(Priyom)
S28	4625	30-1	0941	Mon	ZhUOZ 93636 GAVROBORN 48217284 IRONANG 64251645	USB	(Priyom)
S28	4625	30-1	1001	Mon	ZhUOZ 48040 LASTOGLYeT 88901685	USB	(Priyom)
S28	4625	30-1	1030	Mon	ZhUOZ 43933 YuGNOBOFANT 44394593	USB	(Priyom)
S28	4625	30-1	1104	Mon	ZhUOZ 80906 BLYeJZYeR 67668265	USB	(Priyom)
S28	4625	30-1	1121	Mon	ZhUOZ 33934 BIL'YaRD 91955086	USB	(Priyom)
S30	5448	2-1	1355	Mon	8S1Shch 68134 OBMAZOChNYJ 37856096. Time mark after the transmission	USB	(Priyom)
S30	3756	4-1	1422	Wed	8S1Shch 64321 LYeSHAK 95431772. Time mark after the transmission	USB	(Priyom)
S30	5448	5-1	1350	Thu	8S1Shch 05463 GONChAR 78577056. Time mark after the transmission	USB	(Priyom)
S30	3756	5-1	1355	Thu	8S1Shch 12879 MAKIYaZh 89718285. Time mark after the transmission	USB	(Priyom)
S30	3756	5-1	1855	Thu	Pip channel marker	USB	(ShPa)
S30	4625	5-1	1904	Thu	Buzzer channel marker	USB	(ShPa)
S30	4625	6-1	0618	Fri	Buzzer channel marker	USB	(ShPa)
S30	3756	23-1	1434	Mon	TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT	USB	(Priyom)
S30	3756	23-1	1535	Mon	8S1Shch 78380 LYeShchOTORF 94519379. Time mark after the message	USB	(Priyom)
S30	3756	23-1	1603	Mon	8S1Shch 15114 NAVALIVAN'Ye 52366747. Time mark after the message	USB	(Priyom)
S30	3756	23-1	1652	Mon	8S1Shch 33011 DVOJNYaShKA 64244428. Time mark after the message	USB	(Priyom)
S30	3756	23-1	1710	Mon	8S1Shch 25158 MAJNOSYeUL 83051401. Time mark after the message. Error in the repeat	USB	(Priyom)
S30	3756	23-1	1756	Mon	'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V	USB	(Priyom)
S30	5448	25-1	1223	Wed	8S1Shch 90437 DINA 03487826. Time mark after the message	USB	(Priyom)
S30	3756	25-1	1541	Wed	MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch	USB	(Priyom)
S30	3756	25-1	1541	Wed	5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN	USB	(Priyom)
S30	3756	29-1	1432	Sun	8S1Shch 75553 VYKUP 97871366. Time mark after the message	USB	(Priyom)
S30	3756	29-1	1457	Sun	79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch	USB	(Priyom)
S30	3756	29-1	1708	Sun	8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E	USB	(Priyom)
S32	5473	2-1	1359	Mon	AL'FA-45 00710 KLIKOSVISHch 50309751	USB	(Priyom)
S32	3828	4-1	1426	Wed	AL'FA-45 75897 ADORANT 60359496. S30 in the background	USB	(Priyom)
S32	3828	5-1	1858	Thu	Squeaky Wheel channel marker	USB	(ShPa)
S32	3828	23-1	1656	Mon	AL'FA-45 66113 OTSTAVKA 51455451. S30 in the background	USB	(Priyom)
S32	3828	24-1	1536	Tue	ZASLONKA-27 KARTA-11 OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37	USB	(Priyom)
S32	5473	25-1	1521	Wed	AL'FA-45 71436 DRAPOVATT 24006663. S30 in the background	USB	(Priyom)
UM10	3207	3-1	1811	Tue	10-mins net: OBCD	CW	(F5JBR)
UM10	3115	3-1	1816	Tue	10-mins net: L6YC //3860 kHz	CW	(F5JBR)
UM10	3860	3-1	1816	Tue	10-mins net: L6YC //3115 kHz	CW	(F5JBR)
UM10	5880	4-1	0645	Wed	10-mins net: 4DAG	CW	(F5JBR)
UM10	3192	4-1	1742	Wed	10-mins net: OBCD //3207 kHz	CW	(F5JBR)
UM10	3207	4-1	1742	Wed	10-mins net: OBCD //3192 kHz	CW	(F5JBR)
UM10	3115	5-1	1418	Thu	10-mins net: L6YC //3680 kHz	CW	(JPL-J)
UM10	3680	5-1	1418	Thu	10-mins net: L6YC //3115 kHz	CW	(JPL-J)
UM10	3115	5-1	1821	Thu	10-mins net: L6YC //3680 kHz	CW	(F5JBR)
UM10	3680	5-1	1821	Thu	10-mins net: L6YC //3115 kHz	CW	(F5JBR)

UM10	3115	5-1	2047	Thu	10-mins net: L6YC //3680 kHz	CW	(JPL-J)
UM10	3207	5-1	2047	Thu	10-mins net: OBCD	CW	(JPL-J)
UM10	3680	5-1	2047	Thu	10-mins net: L6YC //3115 kHz	CW	(JPL-J)
UM10	3860	6-1	1619	Fri	10-mins net: L6YC	CW	(JPL-J)
UM10	3860	7-1	1953	Sat	10-mins net: L6YC	CW	(JPL-J)
UM10	3115	8-1	1942	Sun	10-mins net: L6YC //3860 kHz (new freq)	CW	(JPL-J)
UM10	3207	8-1	1942	Sun	10-mins net: OBCD (new freq)	CW	(JPL-J)
UM10	3680	8-1	1942	Sun	10-mins net: L6YC //3115 kHz	CW	(JPL-J)
UM10	3115	8-1	1948	Sun	10-mins net: L6YC //3860 kHz (new freq)	CW	(JPL-J)
UM10	3680	8-1	1948	Sun	10-mins net: L6YC //3115 kHz	CW	(JPL-J)
UM10	3115	8-1	2253	Sun	10-mins net: L6YC //3860 kHz	CW	(JPL-J)
UM10	3680	8-1	2253	Sun	10-mins net: L6YC //3115 kHz	CW	(JPL-J)
UM10	3860	13-1	1653	Fri	10-mins net: L6YC	CW	(JPL-J)
UM10	5880	16-1	0718	Mon	10-mins net: 4DAG	CW	(F5JBR)
UM10	5880	17-1	0715	Tue	10-mins net: 4DAG //6782 kHz	CW	(F5JBR)
UM10	6782	17-1	0715	Tue	10-mins net: 4DAG //5880 kHz	CW	(F5JBR)
UM10	3192	20-1	1010	Fri	10-mins net: OBCD //3207 kHz	CW	(F5JBR)
UM10	3207	20-1	1010	Fri	10-mins net: OBCD //3192 kHz	CW	(F5JBR)
UM10	3860	29-1	0955	Sun	10-mins net: L6YC	CW	(LG3)
UM10	3860	29-1	1640	Sun	10-mins net: L6YC	CW	(LG3)
UM10	3115	29-1	1718	Sun	10-mins net: L6YC //3860 kHz	CW	(JPL-J)
UM10	3207	29-1	1718	Sun	10-mins net: O6CD	CW	(JPL-J)
UM10	3860	29-1	1718	Sun	10-mins net: L6YC //3115 kHz	CW	(JPL-J)
UM10	3115	29-1	2119	Sun	10-mins net: L6YC //3860 kHz	CW	(JPL-J)
UM10	3860	29-1	2119	Sun	10-mins net: L6YC //3115 kHz	CW	(JPL-J)
V02a	7555	3-1	1957	Tue	07042 20672 33001	USB	(HFD-USA)
V02a	7555	5-1	2000	Thu	Atencion 16641 37471 41702. V02a and M08a mixing	LSB	(PW2-USA)
V02a	7555	10-1	2000	Tue	V02a mixing with M08a	LSB	(PW2-USA)
V02a	7555	19-1	2000	Thu	15261 3862 42021. V02a mixing with M08a	LSB	(PW2-USA)
V07	16037	1-1	0100	Sun	661 661 661 000	USB	(Dan)
V07	14637	1-1	0120	Sun	661 661 661 000	USB	(Dan)
V07	16037	8-1	0100	Sun	661 661 661 000	USB	(Dan)
V07	14637	8-1	0120	Sun	661 661 661 000	USB	(Dan)
V07	16037	15-1	0100	Sun	661 661 661 1 193 59 30282 95546 79031 93996 000 000	USB	(Dan/HFD)
V07	14637	15-1	0120	Sun	661 661 661 1 193 59 30282 95546 79031 93996 000 000	USB	(Dan/HFD)
V07	12137	15-1	0140	Sun	661 661 661 1 193 59 30282 95546 79031 93996 000 000	USB	(Dan/HFD)
V07	16037	21-1	0100	Sat	661 661 661 000	USB	(Dan)
V07	14637	21-1	0120	Sat	661 661 661 000	USB	(Dan)
V07	16037	29-1	0100	Sun	661 661 661 000	USB	(Dan)
V07	14637	29-1	0120	Sun	661 661 661 000	USB	(Dan)
V13	11430	19-1	0617	Thu	New Star Broadcasting Station i.p.	AM	(AB-J)
V13	15250	21-1	0700	Sat	New Star Broadcasting Station	AM	(AB-KOR)
V13	15250	21-1	0800	Sat	New Star Broadcasting Station	AM	(AB-KOR)
V13	11430	25-1	0600	Wed	New Star Broadcasting Station	AM	(AB-J)
V13	11430	26-1	0600	Thu	New Star Broadcasting Station	AM	(AB-J)
V13	15250	26-1	0700	Thu	New Star Broadcasting Station	AM	(AB-J)
V13	15250	26-1	0800	Thu	New Star Broadcasting Station	AM	(AB-J)
V13	15250	28-1	0700	Sat	New Star Broadcasting Station	AM	(AB-J)
V13	15250	28-1	0800	Sat	New Star Broadcasting Station	AM	(AB-J)
V13	15250	29-1	0700	Sun	New Star Broadcasting Station	AM	(AB-J)
V13	15250	29-1	0800	Sun	New Star Broadcasting Station	AM	(AB-J)
V13	15250	30-1	0700	Mon	New Star Broadcasting Station	AM	(AB-J)
V13	15250	30-1	0800	Mon	New Star Broadcasting Station	AM	(AB-J)
V13	11430	31-1	0500	Tue	New Star Broadcasting Station	AM	(AB-HK)
V13	11430	31-1	0600	Tue	New Star Broadcasting Station	AM	(AB-HK)
V24	4900	25-1	1536	Wed	i.p. message in Korean	AM	(AB-J)
V26	8073	1-1	1131	Sun	Callup in Chinese. Female operator	USB	(JPL-NZL)
V26	8073	1-1	1210	Sun	Messages in Chinese. Male operator	USB	(JPL-NZL)
V26	4243	1-1	1222	Sun	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)

V26	9054	1-1	1222	Sun	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4364	3-1	1130	Tue	Callup in Chinese. Female operator //8073 kHz	CW	(JPL-NZL)
V26	8073	3-1	1130	Tue	Callup in Chinese. Female operator //4364 kHz	CW	(JPL-NZL)
V26	4243	3-1	1217	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	3-1	1217	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	8073	4-1	1130	Wed	Callup in Chinese. Male operator	USB	(JPL-NZL)
V26	4243	4-1	1140	Wed	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	4-1	1140	Wed	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	4-1	1217	Wed	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	4-1	1217	Wed	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	8073	6-1	1130	Fri	Callup in Chinese. Female operator	USB	(JPL-NZL)
V26	4243	6-1	1206	Fri	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	6-1	1206	Fri	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	8073	11-1	1130	Wed	Callup in Chinese. Female operator	USB	(JPL-NZL)
V26	8073	19-1	1129	Thu	Callup in Chinese. Male operator	USB	(JPL-NZL)
V26	4243	19-1	1216	Thu	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	19-1	1216	Thu	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	21-1	1216	Sat	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	21-1	1216	Sat	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	22-1	0906	Sun	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	22-1	0906	Sun	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	23-1	0910	Mon	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	23-1	0910	Mon	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	9054	29-1	2340	Sun	Callup in Chinese. Female operator	USB	(Dan)
V26	9054	30-1	0020	Mon	Callup in Chinese. Female operator	USB	(Dan)
V26	4364	31-1	1131	Tue	Callup in Chinese. Male operator //8073 kHz	USB	(JPL-NZL)
V26	8073	31-1	1131	Tue	Callup in Chinese. Male operator //4363 kHz	USB	(JPL-NZL)
V26	4243	31-1	1225	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	31-1	1225	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
VC01	5830	10-1	0818	Tue	Chinese Robot	LSB	(AB-HK)
VC01	8148	10-1	0818	Tue	Chinese Robot	USB	(AB-HK)
VC01	3354	29-1	1738	Sun	Chinese Robot	LSB	(JPL-J)
X06	16153	12-1	0815	Thu	Mazielka. Sequence: 153624	MFSK	(AAI)
X06b	14663	7-1	1343	Sat	Mazielka sequence: 1--6-- before XPA2	MFSK	(AB)
X06b	16138	8-1	1153	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16138	8-1	1205	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16138	8-1	1228	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16138	8-1	1237	Sun	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Dan)
X06b	16138	29-1	1213	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	16138	29-1	1216	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
X06b	16138	29-1	1218	Sun	Mazielka. Sequence: 1--6--	MFSK	(Dan)
XPA	9108	4-1	0700	Wed	192 192 192 000 03623 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10908	4-1	0720	Wed	192 192 192 000 03623 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12208	4-1	0740	Wed	192 192 192 000 03623 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9108	7-1	0700	Sat	192 192 192 000 05694 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10908	7-1	0720	Sat	192 192 192 000 05694 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12208	7-1	0740	Sat	192 192 192 000 05694 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9108	11-1	0700	Wed	192 1 01680 00213 84196 ... 55312 50484 03736	MFSK-20/10Bd	(AB)
XPA	10908	11-1	0720	Wed	192 1 01680 00213 84196 ... 55312 50484 03736	MFSK-20/10Bd	(AB)
XPA	12208	11-1	0740	Wed	192 1 01680 00213 84196 ... 55312 50484 03736	MFSK-20/10Bd	(AB)
XPA	9108	14-1	0700	Sat	192 1 01680 00213 84196 ... 55312 50484 03736	MFSK-20/10Bd	(AB)
XPA	10908	14-1	0720	Sat	192 1 01680 00213 84196 ... 55312 50484 03736	MFSK-20/10Bd	(AB)
XPA	12208	14-1	0740	Sat	192 1 01680 00213 84196 ... 55312 50484 03736	MFSK-20/10Bd	(AB)
XPA	9108	18-1	0700	Wed	192 192 192 000 09405 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10908	18-1	0720	Wed	192 192 192 000 09405 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12208	18-1	0740	Wed	192 192 192 000 09405 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9108	21-1	0700	Sat	192 192 192 000 06702 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10908	21-1	0720	Sat	192 192 192 000 06702 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12208	21-1	0740	Sat	192 192 192 000 06702 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9108	25-1	0700	Wed	192 1 03616 00195 38305 ... 51895 65938 05066	MFSK-20/10Bd	(AB/HFD)
XPA	10908	25-1	0720	Wed	192 1 03616 00195 38305 ... 51895 65938 05066	MFSK-20/10Bd	(AB/HFD)
XPA	12208	25-1	0740	Wed	192 1 03616 00195 38305 ... 51895 65938 05066	MFSK-20/10Bd	(AB/HFD)

XPA	9108	28-1	0700	Sat	192 1 03616 00195 38305 ... 51895 65938 05066	MFSK-20/10Bd	(AB)
XPA	10908	28-1	0720	Sat	192 1 03616 00195 38305 ... 51895 65938 05066	MFSK-20/10Bd	(AB)
XPA	12208	28-1	0740	Sat	192 1 03616 00195 38305 ... 51895 65938 05066	MFSK-20/10Bd	(AB)
XPA2	16138	1-1	1300	Sun	01732 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14438	1-1	1320	Sun	01732 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13438	1-1	1340	Sun	01732 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15978	2-1	0800	Mon	06890 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14978	2-1	0820	Mon	06890 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14378	2-1	0840	Mon	06890 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13472	3-1	0700	Tue	05738 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	14772	3-1	0720	Tue	05738 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	16272	3-1	0740	Tue	05738 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	16138	3-1	1300	Tue	05271 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14438	3-1	1320	Tue	05271 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13438	3-1	1340	Tue	05271 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/CS)
XPA2	15978	4-1	0800	Wed	02409 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14978	4-1	0820	Wed	02409 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14378	4-1	0840	Wed	02409 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13472	6-1	0700	Fri	07917 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	6-1	0720	Fri	07917 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	6-1	0740	Fri	07917 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16167	6-1	1400	Fri	09455 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14663	6-1	1420	Fri	09455 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13923	6-1	1440	Fri	09455 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/PW2)
XPA2	16167	7-1	1400	Sat	03531 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	14663	7-1	1420	Sat	03531 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	13923	7-1	1440	Sat	03531 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	16138	8-1	1300	Sun	02510 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	14438	8-1	1320	Sun	02510 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	13438	8-1	1340	Sun	02510 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/MPJ)
XPA2	15978	9-1	0800	Mon	05260 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/HFD)
XPA2	14978	9-1	0820	Mon	05260 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/HFD)
XPA2	14378	9-1	0840	Mon	05260 00001 00000 10140	MFSK-16/20Bd	(AB/Dan/HFD)
XPA2	13472	10-1	0700	Tue	02140 00063 93131 ... 96445 89273 70156	MFSK-16/20Bd	(AB)
XPA2	14772	10-1	0720	Tue	02140 00063 93131 ... 96445 89273 70156	MFSK-16/20Bd	(AB)
XPA2	16272	10-1	0740	Tue	02140 00063 93131 ... 96445 89273 70156	MFSK-16/20Bd	(AB)
XPA2	16138	10-1	1300	Tue	07929 00069 99363 ... 23154 18597 46613	MFSK-16/20Bd	(AB)
XPA2	14438	10-1	1320	Tue	07929 00069 99363 ... 23154 18597 46613	MFSK-16/20Bd	(AB)
XPA2	13438	10-1	1340	Tue	07929 00069 99363 ... 23154 18597 46613	MFSK-16/20Bd	(AB)
XPA2	15978	11-1	0800	Wed	05830 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14978	11-1	0820	Wed	05830 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14378	11-1	0840	Wed	05830 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13472	13-1	0700	Fri	02140 00063 93131 ... 96445 89273 70156	MFSK-16/20Bd	(AB)
XPA2	14772	13-1	0720	Fri	02140 00063 93131 ... 96445 89273 70156	MFSK-16/20Bd	(AB)
XPA2	16272	13-1	0740	Fri	02140 00063 93131 ... 96445 89273 70156	MFSK-16/20Bd	(AB)
XPA2	16167	13-1	1400	Fri	02393 00061 47400 ... 96105 14733 42525	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	13-1	1420	Fri	02393 00061 47400 ... 96105 14733 42525	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	13-1	1440	Fri	02393 00061 47400 ... 96105 14733 42525	MFSK-16/20Bd	(AB/MPJ)
XPA2	16167	14-1	1400	Sat	02393 00061 47400 ... 96105 14733 42525	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	14-1	1420	Sat	02393 00061 47400 ... 96105 14733 42525	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	14-1	1440	Sat	02393 00061 47400 ... 96105 14733 42525	MFSK-16/20Bd	(AB)
XPA2	16138	15-1	1300	Sun	07929 00069 99363 ... 23154 18597 46613	MFSK-16/20Bd	(AB/RL)
XPA2	14438	15-1	1320	Sun	07929 00069 99363 ... 23154 18597 46613	MFSK-16/20Bd	(AB)
XPA2	13438	15-1	1340	Sun	07929 00069 99363 ... 23154 18597 46613	MFSK-16/20Bd	(AB)
XPA2	15978	16-1	0800	Mon	04492 00193 22333 ... 23251 27040 51117	MFSK-16/20Bd	(AB)
XPA2	14978	16-1	0820	Mon	04492 00193 22333 ... 23251 27040 51117	MFSK-16/20Bd	(AB)
XPA2	14378	16-1	0840	Mon	04492 00193 22333 ... 23251 27040 51117	MFSK-16/20Bd	(AB)
XPA2	13472	17-1	0700	Tue	00408 00079 91712 ... 18967 12718 01242	MFSK-16/20Bd	(AB)
XPA2	14772	17-1	0720	Tue	00408 00079 91712 ... 18967 12718 01242	MFSK-16/20Bd	(AB)
XPA2	16272	17-1	0740	Tue	00408 00079 91712 ... 18967 12718 01242	MFSK-16/20Bd	(AB)
XPA2	16138	17-1	1300	Tue	02072 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	14438	17-1	1320	Tue	02072 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)

XPA2	13438	17-1	1340	Tue	02072 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	15978	18-1	0800	Wed	04492 00193 22333 ... 23251 27040 51117	MFSK-16/20Bd	(AB)
XPA2	14978	18-1	0820	Wed	04492 00193 22333 ... 23251 27040 51117	MFSK-16/20Bd	(AB)
XPA2	14378	18-1	0840	Wed	04492 00193 22333 ... 23251 27040 51117	MFSK-16/20Bd	(AB)
XPA2	13472	20-1	0700	Fri	00408 00079 91712 ... 18967 12718 01242	MFSK-16/20Bd	(AB)
XPA2	14772	20-1	0720	Fri	00408 00079 91712 ... 18967 12718 01242	MFSK-16/20Bd	(AB)
XPA2	16272	20-1	0740	Fri	00408 00079 91712 ... 18967 12718 01242	MFSK-16/20Bd	(AB)
XPA2	16167	20-1	1400	Fri	01973 00077 82671 ... 84806 85705 30251	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	20-1	1420	Fri	01973 00077 82671 ... 84806 85705 30251	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	20-1	1440	Fri	01973 00077 82671 ... 84806 85705 30251	MFSK-16/20Bd	(AB/MPJ)
XPA2	16167	21-1	1400	Sat	01973 00077 82671 ... 84806 85705 30251	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	21-1	1420	Sat	01973 00077 82671 ... 84806 85705 30251	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	21-1	1440	Sat	01973 00077 82671 ... 84806 85705 30251	MFSK-16/20Bd	(AB)
XPA2	16138	22-1	1300	Sun	03700 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	22-1	1320	Sun	03700 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13438	22-1	1340	Sun	03700 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	15978	23-1	0800	Mon	07977 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14978	23-1	0820	Mon	07977 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14378	23-1	0840	Mon	07977 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13472	24-1	0700	Tue	01722 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	24-1	0720	Tue	01722 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	24-1	0740	Tue	01722 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16138	24-1	1300	Tue	07221 00081 61432 ... 46753 76055 10644	MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	24-1	1320	Tue	07221 00081 61432 ... 46753 76055 10644	MFSK-16/20Bd	(AB/MPJ)
XPA2	13438	24-1	1340	Tue	07221 00081 61432 ... 46753 76055 10644	MFSK-16/20Bd	(AB/MPJ)
XPA2	15978	25-1	0800	Wed	07860 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14978	25-1	0820	Wed	07860 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14378	25-1	0840	Wed	07860 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13472	27-1	0700	Fri	04428 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	27-1	0720	Fri	04428 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	27-1	0740	Fri	04428 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16167	27-1	1400	Fri	03051 00001 00000 00140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	27-1	1420	Fri	03051 00001 00000 00140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	27-1	1440	Fri	03051 00001 00000 00140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16167	28-1	1400	Sat	03403 00001 00000 00140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	28-1	1420	Sat	03403 00001 00000 00140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	28-1	1440	Sat	03403 00001 00000 00140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	29-1	1300	Sun	07221 00081 61432 ... 46633 6655 10644	MFSK-16/20Bd	(AB/Dan)
XPA2	14438	29-1	1320	Sun	07221 00081 61432 ... 46633 6655 10644	MFSK-16/20Bd	(AB)
XPA2	13438	29-1	1340	Sun	07221 00081 61432 ... 46633 6655 10644	MFSK-16/20Bd	(AB)
XPA2	15978	30-1	0800	Mon	03568 00163 57863 ... 64196 30881 61251	MFSK-16/20Bd	(AB)
XPA2	14978	30-1	0820	Mon	03568 00163 57863 ... 64196 30881 61251	MFSK-16/20Bd	(AB)
XPA2	14378	30-1	0840	Mon	03568 00163 57863 ... 64196 30881 61251	MFSK-16/20Bd	(AB)
XPA2	13472	31-1	0700	Tue	02357 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	31-1	0720	Tue	02357 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	31-1	0740	Tue	02357 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16138	31-1	1300	Tue	09267 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14438	31-1	1320	Tue	09267 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13438	31-1	1340	Tue	09267 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XSL	6417	17-1	2320	Tue	Japanese Navy (Slot Machine)	QPSK 1500Bd	(RB2)

CONTRIBUTORS

AAI	Antonio Anselmi, Italy	GHn	Gary Hagermann, UK
AB	Ary Boender, Netherlands	GNL	Graham, Canada
AB-AUT	Ary Boender via remote rx Austria	HFD	Hans-Friedrich Dumrese, Germany
AB-GRC	Ary Boender via remote rx Greece	HFD-AUT	Hans-Friedrich Dumrese via remote rx Austria
AB-HK	Ary Boender via remote rx Hong Kong	HFD-HK	Hans-Friedrich Dumrese via remote rx Hong Kong
AB-I	Ary Boender via remote rx Italy	HFD-USA	Hans-Friedrich Dumrese via remote rx USA
AB-J	Ary Boender via remote rx Japan	IARUMS	IARU Monitoring Service
AB-KOR	Ary Boender via remote rx South Korea	JPL	JPL, Ontario, Canada (and various remotes)
AB-NZL	Ary Boender via remote rx New Zealand	JPL-HK	JPL via remote rx Hong Kong
AB-POL	Ary Boender via remote rx Poland	JPL-J	JPL via remote rx Japan
AB-RUS	Ary Boender via remote rx Russia	JPL-NZL	JPL via remote rx New Zealand
AB-S	Ary Boender via remote rx Sweden	JPL-UKR	JPL via remote rx Ukraine
AB-UKR	Ary Boender via remote rx Ukraine	LG3	Looking Glass
AnEur	Anonymous Europe	MCO	Mike Chace-Ortiz, PA, USA
Benka	Benka	MPJ	Jim, SW England
BR	Brian Rogers, UK	Priyom	Priyom.org
BvR	Bert van Rij, Netherlands	PW2	Parkeerwacht, The Netherlands
BW3	Barry Williams, AL, USA	PW2-USA	Parkeerwacht via remote rx USA
ChPa	Christer, Sweden	qsr711	QSR711
CS	Chris Smolinski, USA	RB2	Richard
Dan	Daniel, Argentina	RL	Landolpho, Brazil
Danix	Danix111, Poland	RL-HOL	Landolpho via remote rx Netherlands
Danix-J	Danix via remote rx Japan	RP-MD	Ron, MD, USA
Danix-RUS	Danix via remote rx Russia	RR2	Rich Ray, IL, USA
Danix-USA	Danix via remote rx USA	Sha	shadypyro
DSch	Don Schimmel, WV, USA	Tom	Tom, Lincs, UK
ES	Edward Smith	Topol	Tony, UK
ES-HOL	Edward Smith via remote rx Netherlands	TrW	Traveling Wave
EW	Eddy Waters, Australia	WP3	Wolfgang Palmberger
F5JBR	F5JBR André, France		

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723 87629 37677 32612 53498 71296 28756 18276 98716 87
7269 76329 74698 76857 98670 27601 56701 57601 73648 11
591 87364 87265 96710 27630 12673 84769 28743 98127 56
8 63298 75698 27465 87326 49876 28376 81273 98615 86
67 87432 74328 78674 29867 32867 67867 86786 43266 486
57 68768 68763 34234 34238 68768 62342 48273 48768 234
36 98432 32432 86743 43286 43286 43286 43286 43286 486
743 86743 86743 39867 32867 86743 43286 43286 43243 86
743 86743 86743 86743 86743 86743 86743 86743 86743 486
343 98798 98754 98754 98754 98754 29867 67543 67986 867
76 87698 69876 87698 69876 87612 12341 34867 86798 652
667 43298 65656 56756 56123 32143 14321 32143 14321 321
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