

670	27364	92836	09428	61208	74982	36498	32764	81276	01
986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	70
723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	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	43286	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
76	87698	69876	87698	69876	87612	12341	34867	86798	632
67	43298	65656	56756	56123	32143	14321	32143	14321	321
71	02787	58765	76587	58765	76587	58765	76587	58756	765
75	75475	36543	54365	36543	54365	36543	54365	36543	543

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #216, September 2015

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.

Hello and welcome to Numbers & Oddities #162.

Due to circumstances I have not been able to listen much in September, hence less info than usual, but nevertheless enough logs and transcripts to enjoy. The number of contributors is going down lately. I really need your input to continue with N&O, so do not hesitate to send your logs and info. You will not be credited if you don't want to be, so let me hear from you.

The sun has been shining all day. It was a beautiful autumn day. Time to finish N&O with a beer and good rock music in the background and two radios and decoders monitoring the HF bands.

Here we go

VOICE STATIONS



E07

10708 kHz, 07-09, 1920 UTC

172 1 826 36 826 36
73972 05474 88375 47097 65578 39212 60217 70129 84820 20101
30515 87032 51710 93270 31323 85139 96733 65875 64221 38966
84374 83243 50968 11929 57952 55898 13911 31641 09751 04835
96413 97657 59971 82383 21777
000 000

10708/9208 kHz, 14-09, 1920/1940 UTC

172 1 691 89 691 89
56409 10406 68824 34383 33338 34565 3508 9 90031 38116 32086
64923 17823 79025 16261 42244 64632 9931. 07385 61560 88426
80700 63716 44449 85327 24974 16590 43664 15726 18786 18989
53108 49693 46191 81212 83174 02041 97446 67907 66897 36178
21606 27602 10455 61089 60107 08402 78034 08548 35972 35410
22556 78191 30092 00966 11440 19974 51512 77416 80451 75147
77497 20930 24842 26423 81309 05190 51422 19984 89389 82969
79235 83560 35146 88580 78907 75254 56628 94922 78154 99075
85345 27655 41599 70216 56629 53579 73916 36396 88602
000 000

13527/12227/10627 kHz, 16-09, 1700/1720/1740 UTC

526 1 715 118 715 118
69442 80117 57447 79141 53426 34772 23951 12986 11857 35206
19917 57552 62983 92920 68453 13722 26584 41041 92927 21990
73557 72073 37390 41750 65661 94197 76738 73428 00267 46518
92780 37492 00988 90440 42357 53523 24243 79274 93981 02715
76746 05254 18970 78217 30734 41287 07665 96154 33230 16128
50720 15900 57795 52420 71547 61167 63210 65204 81656 24522
55045 76159 59673 46679 15321 75961 67605 23539 59679 75437
03404 98259 51863 89999 90999 69242 90948 53058 78716 81899
50585 09369 13986 38353 61781 69753 70711 03666 51854 72163
89695 28406 48672 04755 90223 40634 65127 58673 67739 31922
95635 26740 57604 43552 14841 78925 19820 99297 13719 62927
75103 39457 28727 79827 65810 09708 58701 17604
000 000

9064/10264/11464 kHz, 23-09, 0600/0620/0640 UTC

024 1 452 77 452 77
11564 21284 98191 08247 39680 63644 19627 19591 29702 05677
02207 86912 96970 77506 08319 16029 06648 22622 53707 57919
21392 57003 82822 00118 60635 48634 81674 17938 55230 10044
74443 14738 02742 40446 14348 18877 95223 05400 51597 54644
11166 91927 13940 33155 12811 12826 75849 29567 85731 36138
17637 87047 47450 07792 67851 65500 61755 09223 35084 42336
80546 77293 66402 92182 45330 98655 46462 83100 91362 45761
24643 55905 67830 50214 01745 58630 86728
000 000

13527/12227/10627 kHz, 23-09, 1700/1720/1740 UTC

526 1 536 66 536 66
88586 11395 02960 47819 58006 73631 53452 05223 99723 89813
93761 12341 81625 68121 73930 88329 67707 29426 16104 04072
89164 71655 83843 47376 93106 72595 76563 99813 39733 93189
43035 72139 70744 21763 35689 75094 99921 40112 98938 68341
38725 33944 15407 53036 06069 51683 51183 89707 99067 15604
12674 87222 49040 02175 46370 07146 95505 13237 98580 56539
09199 34824 02650 19642 66929 46757
000 000

9064/10264/11464 kHz, 26-09/30-09, 0600/0620/0640 UTC

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

12108 kHz, 30-09, 1900 UTC

172 1 445 57
60797 55561 62076 60157 73268 55708 15755 75396 08505 01534
62952 20196 12923 48714 56838 97216 98410 96096 12293 59883
77203 35634 73972 36382 38418 25663 28323 45250 11139 43251
25873 41204 09030 83101 75642 83265 15031 83441 47422 99504
51822 01022 68745 85021 67740 07499 17388 92145 29547 04248
88385 86316 70871 88935 92078 97349 03050
000 000



Former Russian/Stasi Abhörstation "Urian".

This spy station on mount Brocken in the German Harz was used by the Russians and the East German Staatssicherheitsdienst (Stasi) to copy Western telephone traffic and messages from Russian and East German agents.

Photo: Ary Boender



E07a

8144/6944/5744 kHz, 02-09, 2000/2020/2040 UTC

197 1 39299 7441 77
72395 82788 34250 41106 46785 31305 67925 98609 25034 65002
11921 63299 11748 10676 54691 55848 35942 43279 84147 61727
92069 46443 72673 97848 97549 04780 49873 96657 88096 70611
86986 92808 21032 32802 30154 44267 02826 71481 70880 35407
81368 96667 72152 27032 30480 17851 63365 44434 72883 85308
89027 27028 30933 16858 99533 89927 06586 86509 11510 43089
34439 77822 45346 62214 20979 45693 56439 56188 00946 92953
77007 46902 87973 27840 74563 97259 33102
000 000



E11a

13375 kHz, 01-09, 1400 UTC

988/10 Attention 97990 45099 07609 27471 14423 09338 80905 74211 69231 55528 Attention, rpt msg, out

13455 kHz, 01-09, 1810 UTC

980/10 Attention 20680 66610 43965 79628 73962 06837 74144 78385 02832 80794 Attention, rpt msg, out

13455 kHz, 12-09, 1810 UTC

986/10 Attention 28552 49994 66390 34340 60792 73652 19655 13889 55181 43511 Attention, rpt msg, out

13375 kHz, 22-09, 1400 UTC

980/10 Attention 50132 46248 12649 30235 05580 65267 43926 19183 01783 60853 Attention, rpt msg, out

13455 kHz, 22-09, 1810 UTC

981/10 Attention 37076 40089 28390 04322 65837 60650 86423 66560 73680 93571 Attention, rpt msg, out

13455 kHz, 26-09, 1810 UTC

980/10 Attention 70684 71376 82727 70951 07488 95899 66977 59813 15060 14795 Attention, rpt msg, out

13375 kHz, 29-09, 1400 UTC

980/10 Attention 51017 64967 89267 57979 31757 00598 52744 36841 43887 42417 Attention, rpt msg, out

13455 kHz, 29-09, 1810 UTC

981/10 Attention 96717 22565 15589 30692 19149 54733 18001 43125 38532 50190 Attention, rpt msg, out

14575 kHz, 01-09/03-09, 0745 UTC

330/35 Attention
35714 44122 72142 79326 00951 99403 03358 62605 81428 13304
26213 45043 53535 39365 94083 93358 22726 76258 32192 56121
57437 53240 58379 39550 64999 75222 62365 96569 44031 99459
02984 64946 61483 54559 13063
Attention, rpt msg, out

10448 kHz, 02-09, 1625 UTC

976/34 Attention

93152 77469 81532 57097 73225 34481 49385 50420 34959 47983
70651 85654 07802 38362 39819 96460 35970 53544 55300 06486
23293 43442 43875 67014 98495 60474 06989 40444 97457 09262
27298 98067 49030 73568

Attention, rpt msg, out

10213 kHz, 02-09, 1705 UTC

391/38 Attention

83030 04691 71694 31823 21973 52621 55924 73763 68621 79850
99969 92632 29434 02456 76232 17864 54945 99481 54497 64920
12511 47837 80352 36707 98953 91393 78311 31848 66557 70924
65068 70753 15083 67857 18452 68669 27998 66369

Attention, rpt msg, out

13375 kHz, 04-09, 1120 UTC

952/40 Attention

30003 60248 01155 84569 39637 74580 45976 55545 37828 63937
03343 13039 14971 94971 94868 61863 20445 40876 40024 37826
26749 47394 19451 73744 21292 52504 86144 43872 77216 66528
46513 60213 54860 55935 33733 38174 97776 19918 99351 02180

Attention, rpt msg, out

9399 kHz, 28-09/30-09, 0900 UTC

536/35 Attention

57209 52135 22631 54834 86055 24038 89809 78364 49990 07613
59382 26267 16149 64006 19266 90181 35465 54939 36289 31816
18141 93923 29012 24639 05831 91542 66063 32586 88575 53317
50660 69037 23405 23567 11555

Attention, rpt msg, out



S06

5124 kHz, 06-09, 1900 UTC

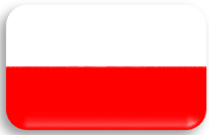
738 690 45

56330 07166 34176 82240 97204 98071 03981 09905 46705 19178
81815 74999 60212 42408 96740 36471 84493 07504 74330 16793
44734 51645 07428 92703 48641 69768 76509 27810 51026 98807
04275 42365 14099 54976 02239 75583 26131 26245 84813 35859
57997 29516 85945 25626 91160
690 45 00000

19035 kHz, 25-09, 0830 UTC

842 150 46

47855 29526 68209 71801 09560 75783 73645 43937 22783 50928
57268 03467 78593 73231 92519 52251 09636 23410 12346 49662
44636 49484 60537 94637 06721 35723 52942 78143 50198 56857
78445 71485 43283 87539 00523 47552 23839 28829 22142 22101
34056 84523 98130 20760 88546 43150
150 46 00000



S11a

7317 kHz, 01-09/04-09, 0915 UTC

476/30 Vnimanie

35587 16128 29811 46901 41710 08918 86503 58236 15462 73026

82581 65912 07652 33385 31217 23389 23724 55149 79926 64341

68316 09257 95511 66011 18542 51908 52634 87253 35274 92532

Vnimanie, rpt msg, konec



S28 - The Buzzer

Mode: USB

Frequency: 3216 & 4625 kHz

02-09, 1543 UTC	MDZhB 98 484 DVOPYeK 8888 0259
05-09, 1409 UTC	MDZhB GYeOLOGiYa 55 37
10-09, 1021 UTC	MDZhB 77 322 AVO 3328 7927
13-09, 1231 UTC	MDZhB 08 613 SVITKA 4119 6963
14-09, 0440 UTC	MDZhB 59 318 TVIN 9051 0025
14-09, 0406 UTC	MDZhB 04 542 KVINOKAIN 5343 7200
19-09, 0600 UTC	MDZhB TIGRICA 62 20
20-09, 1410 UTC	MDZhB 67 627 CIN'HA 3693 0944
20-09, 1254 UTC	MDZhB 01 347 LIPAVLON 1100 8291
20-09, 1009 UTC	MDZhB 65 208 LIPAK 1520 1796
24-09, 1009 UTC	MDZhB 75 519 DINOBYeK 1389 7766
24-09, 0832 UTC	MDZhB 27 055 SINHROTRON 8179 6586
24-09, 0756 UTC	MDZhB 96 833 ShINShILLA 9264 8259
25-09, 1750 UTC	Some voice tests after failed line fix
27-09, 1317 UTC	MDZhB 67 771 KINODIALOG 6984 3342
27-09, 1225 UTC	MDZhB 96 963 MINONOSNYJ 8640 1411
28-09, 1119 UTC	MDZhB 77 937 VINKATON 1359 2260
28-09, 0928 UTC	MDZhB 60 215 ShINNYJ 8035 0167
30-09, 0938 UTC	MDZhB 20 323 TORPYeDNIK 8116 0625
30-09, 1141 UTC	MDZhB 58 152 PATRUBYeN' 3009 8765
30-09, 1349 UTC	MDZhB 78 565 KRYeVYeNT 2243 3637
30-09, 1823 UTC	MDZhB 00 136 TINKAL' 7527 0698
30-09, 1915 UTC	MDZhB 11 869 GINYeCYeJ 4479 1695



S30 - The Pip

Modes: CW (Pip), USB (messages)

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

5448 kHz, 02-09, 1500 UTC	8S1Shch GIGRONIJ 02 09
3756 kHz, 02-09, 1853 UTC	Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU
3756 kHz, 03-09, 1750 UTC	SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV DEAY
3756 kHz, 04-09, 1659 UTC	8S1Shch ORALA 32 99
3756 kHz, 10-09, 1750 UTC	Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI
3756 kHz, 12-09, 1844 UTC	N1DU 53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS 27PM
3756 kHz, 13-09, 1835 UTC	49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNSHch
3756 kHz, 13-09, 1914 UTC	Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZI
3756 kHz, 14-09, 1606 UTC	SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV DEAY

3756 kHz, 15-09, 1639 UTC TZLM FY5E F61N 37CN MUDR 7VNSHch Zh7NZh YMA5 VTH3 AGDT
3756 kHz, 16-09, 1820 UTC ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh
5488 kHz, 16-09, 1519 UTC 8S1Shch 00 939 OBIHODYeC 4560 5709
3756 kHz, 17-09, 1849 UTC 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN
3756 kHz, 17-09, 1738 UTC CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR
5488 kHz, 17-09, 1459 UTC 8S1Shch 06 341 LISTAZh 2263 3184
5488 kHz, 18-09, 1500 UTC 8S1Shch 95 587 PRISTYaZhKA 8936 2557
5488 kHz, 18-09, 1456 UTC INNC C2ZA 22 372 31 591 ABSYeNTYeIST 3602 5520
5488 kHz, 18-09, 1450 UTC 8S1Shch 78 202 PIKSAL 1221 3987
5488 kHz, 18-09, 1445 UTC 8S1Shch 15 902 TYeRMINATOR 7769 4121
3756 kHz, 19-09, 1753 UTC CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA
3756 kHz, 20-09, 1754 UTC DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1
5488 kHz, 20-09, 1455 UTC VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZI 4RVZ 3VS'
5488 kHz, 20-09, 1411 UTC 8S1Shch 45 583 PANIchYeSKIJ 4720 5445
5488 kHz, 21-09, 1504 UTC C2ZA TZLM 81 914 49 968 IZYeR 5470 0401
5488 kHz, 21-09, 1459 UTC 8S1Shch 13 297 PUChYeNIYe 2170 3921
3756 kHz, 23-09, 1746 UTC N1DU 53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM
3756 kHz, 24-09, 1547 UTC 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR VNShch
3756 kHz, 25-09, 1804 UTC SB7Z 'O6P Y8VM 6I2Zh 8CSHchJ 27Shch' N1DU 53OB 78MV DEAY
5488 kHz, 25-09, 1508 UTC TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ
5488 kHz, 25-09, 1136 UTC 8S1Shch 54 518 RADIOLOG 6502 0691
5488 kHz, 29-09, 0454 UTC MUDR 7VNSHch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch
5448 kHz, 29-09, 1433 UTC 8S1Shch 54 954 SFYeROID 3085 5058
3756 kHz, 29-09, 1845 UTC L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE
3756 kHz, 29-09, 1649 UTC 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5
3756 kHz, 30-09, 1915 UTC 8S1Shch 15 565 NYeVYeJKA 9511 7694
3756 kHz, 30-09, 1822 UTC 8S1Shch 33 386 YeNOLAZA 2088 9526
3756 kHz, 30-09, 1810 UTC CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA
3756 kHz, 30-09, 1524 UTC 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B

S32 - Squeaky Wheel



Mode: USB

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

7009 kHz, 01-09, 0900 UTC AL'FA-45 51 352 FYeNOBIN 5465 9973
3828 kHz, 02-09, 1851 UTC SLIVA-94 LANDYSh-74 STAZHER-29 ALEUT-09 ZASLONKA-27 P
3828 kHz, 03-09, 1927 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32
ROSA-64 DZHIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 with S30 in background
7009 kHz, 03-09, 1200 UTC AL'FA-45 87 858 KANKA 5823 0387
7009 kHz, 04-09, 1702 UTC AL'FA-45 ORALA 32 99 (S32 relay of S30 signal). Pip marker on background
7009 kHz, 07-09, 1029 UTC 1 2 3 4 5 6 7 8 9 0 Test count after failed signal
3828 kHz, 07-09, 1823 UTC FONTAN-34 KOVBOJ-39
7009 kHz, 07-09, 1337 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 FONTAN-34 KOVBOJ-39
7009 kHz, 07-09, 1220 UTC FONTAN-34 KOVBOJ-39
7009 kHz, 07-09, 1120 UTC ROSA-64 DZHIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 KOVBOJ-39 with S30 in background
7009 kHz, 07-09, 1017 UTC AL'FA-45 Completely failed monolith signal
3828 kHz, 10-09, 1919 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32
with S30 in background
3828 kHz, 12-09, 1603 UTC SLIVA-94 LANDYSh-74 STAZHER-29 ALEUT-09 ZASLONKA-27 with S30 in background
3828 kHz, 12-09, 1515 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39 with S30 in background
3828 kHz, 12-09, 1800 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39 ROSA-64 DZHIGIT-46 OTPOR-89 YaHTA-94
FONTAN-34
7009 kHz, 13-09, 1235 UTC AL'FA-45 06 362 ARYS 1459 8151 with S30 in background
3828 kHz, 13-09, 0319 UTC AL'FA-45 78 038 TYeKTONIKA 8524 0457 with S30 in background
3828 kHz, 13-09, 1740 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39
3828 kHz, 13-09, 1509 UTC SLIVA-94 LANDYSh-74 STAZHER-29 ALEUT-09 ZASLONKA-27 with S30 in background
7009 kHz, 13-09, 1249 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 with S30 in background

3828 kHz, 14-09, 0408 UTC AL'FA-45 94 777 POLYNOVKA 6473 7279 with S30 in background

3828 kHz, 15-09, 1831 UTC ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 with S30 on background

7009 kHz, 15-09, 0750 UTC SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27

3828 kHz, 16-09, 1813 UTC ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 KURGAN-40 STUPA-32 RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 with S30 on background

3828 kHz, 17-09, 1820 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27

3828 kHz, 18-09, 1747 UTC ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 with S30 on background

3828 kHz, 18-09, 1642 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32

3828 kHz, 19-09, 1532 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 with S30 on background

3828 kHz, 19-09, 1505 UTC SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27 with S30 on background

3828 kHz, 20-09, 1725 UTC ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34

3828 kHz, 20-09, 1605 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 with S30 on background

3828 kHz, 20-09, 1414 UTC AL'FA-45 40 622 AKROPOMA 9827 7045

7009 kHz, 20-09, 1414 UTC AL'FA-45 40 622 AKROPOMA 9827 7045

7009 kHz, 20-09, 1311 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32
Bad link to tx site from the hub. Pip on background

7009 kHz, 20-09, 1259 UTC AL'FA-45 17 252 SKAT 7508 3498 Bad link to tx site from the hub caused bad quality signal reading.
Pip on background

7009 kHz, 20-09, 1012 UTC AL'FA-45 94 712 VDYeVANIYe 2791 6689 with S30 on background

7009 kHz, 20-09, 1003 UTC SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27 with S30 on background

3828 kHz, 21-09, 1823 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32

3828 kHz, 21-09, 1600 UTC K3VJ 19BT M7KS 67 101 66 378 76 202 GUSYaTINA 5167 9296

3828 kHz, 21-09, 0747 UTC SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27

3828 kHz, 21-09, 0400 UTC AL'FA-45 53 695 13 075 72 353 POChTAL'ON 0188 1263

3828 kHz, 21-09, 0356 UTC AL'FA-45 74 367 50 938 31 069 KASHATAN 6363 6614

3828 kHz, 21-09, 0352 UTC AL'FA-45 39 141 53 899 63 549 EL'STYeR 1298 7602

3828 kHz, 23-09, 1918 UTC K3VJ 19BT M7KS 76 113 73 558 11 257 MONITOR 4552 0826 with S30 on background

3828 kHz, 23-09, 1848 UTC K3VJ 19BT M7KS 58 463 78 566 04 131 FORTUNA 0368 7897

3828 kHz, 23-09, 1828 UTC K3VJ 19BT M7KS 78 463 09 586 79 879 KARTA 8561 6327 with S30 on background

3828 kHz, 23-09, 1818 UTC K3VJ 19BT M7KS 11 432 15 967 68 745 UGRYuMYJ 7850 5136 with S30 on background

3828 kHz, 23-09, 1800 UTC ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 with S30 on background

3828 kHz, 23-09, 1628 UTC K3VJ 19BT M7KS 22 973 08 678 92 595 PUSTOTA 9205 4008

3828 kHz, 23-09, 1557 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32
with S30 on background

7009 kHz, 23-09, 1147 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 with S30 on background

3828 kHz, 23-09, 0412 UTC AL'FA-45 65 913 KALOMYeL' 0441 2289 with S30 on background

3828 kHz, 24-09, 2102 UTC AL'FA-45 73 698 41 831 81 068 UNNA 3065 6642 with S30 on background

3828 kHz, 24-09, 1813 UTC RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07

7009 kHz, 24-09, 1336 UTC ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 KURGAN-40 DUBLYoR-68 STUPA-32
with S30 on background

7009 kHz, 24-09, 1009 UTC AL'FA-45 56 199 SGOVORKA 4765 3685 with S30 on background

7009 kHz, 24-09, 0834 UTC AL'FA-45 57 828 KINOPLYeNKA 1811 1295 with S30 on background

7009 kHz, 24-09, 0756 UTC AL'FA-45 94 585 POLUMYeTAL 3164 0324 with S30 on background

7009 kHz, 25-09, 1140 UTC AL'FA-45 46 713 POTVUShKA 7564 1100

7009 kHz, 25-09, 1012 UTC SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27

5473 kHz, 29-09, 1437 UTC AL'FA-45 95 545 HABUR 2328 2131

3828 kHz, 29-09, 1805 UTC STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 RUZh'E-26 BIZON-64 PYeSOChNYJ-21
ShULER-60 PENZA-07

3828 kHz, 30-09, 1805 UTC ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34

3828 kHz, 30-09, 1820 UTC AL'FA-45 81 110 CIMINAL' 6414 3683 PIP and CW control signal on background

3828 kHz, 30-09, 1916 UTC AL'FA-45 33 455 POZITIVNYJ 7510 4372 error in reading



S3850

Frequency: 3850 kHz
Mode: USB

Peter copied voice time markers on 26-9. Nice job, Peter! The recordings are on the N&O website.

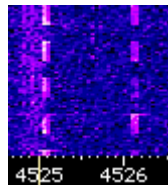
06-09, 1900 UTC	Channel marker (long dash)
07-09, 1927 UTC	Channel marker (long dash)
10-09, 1929 UTC	Channel marker (long dash)
14-09, 1951 UTC	Channel marker (long dash)
26-09, 1500 UTC	Voice time marker
26-09, 2200 UTC	Voice time marker



S4525

Frequency: 4525 kHz
Mode: USB

03-09 1719 UTC	Channel marker (short dash)
03-09 1917 UTC	Channel marker (short dash)
07-09 1927 UTC	Channel marker (short dash)
09-09 1929 UTC	Channel marker (short dash)
12-09 1659 UTC	Channel marker (short dash)
13-09 1642 UTC	Channel marker (short dash)
14-09 1951 UTC	Channel marker (short dash)
25-09 2012 UTC	Channel marker (short dash)



S5292

Frequency: 5252 kHz
Mode: USB

03-09, 1719 UTC	Channel marker "B"
04-09, 1604 UTC	Marker sending -..... instead of "B" then into "B" and "D" and later only "B"



-.....



09-09, 1828 UTC	Channel marker "B"
09-09, 1930 UTC	Channel marker "D"
12-09, 1710 UTC	Channel marker "D"
13-09, 1653 UTC	Channel marker "D"
15-09, 1400 UTC	RYeGATA-75 SYeKRYeT-39 73 901 PIANIST 3274 1121
18-09, 1235 UTC	TRYeL'-31 VIZIR-21 63 821 BAZYeJKA 2856 5830. Count before the signal
21-09, 1325 UTC	SYeKRYeT-39 RYeGATA-75 84 921 LIADIRAMMA 3827 6498 "Should I talk only through this?" in the beginning. Count before the signal
23-09, 1441 UTC	BARZHA-08 BOYeC-43 94 211 TURYeL' 4638 3292. Count before the signal
27-09, 1838 UTC	BOYeC-43 47 591 BUBYeN 1862 8271. Count before the signal
29-09, 1226 UTC	TRYeL'-31 VIZIR-21 37 649 MITING 3843 2121
29-09, 1930 UTC	Channel marker "D"



V07

16037/14637/12137 kHz, 27-09, 0300/0320/0340 UTC

661 1 789 75

25905 09587 25298 35918 48907 44959 50758 70372 99170 53351
03929 55313 33727 74449 28330 34031 12833 83323 42717 00937
41274 99278 34113 57704 47732 20117 47350 55099 54731 59083
07287 43450 77728 43509 73931 59483 47283 32250 38399 23801
71319 38403 44013 33039 80023 57592 14120 75291 39291 27230
97195 37191 49785 40133 45372 91253 24513 89780 37020 12450
38327 83423 43319 53211 22550 90443 88528 77071 13323 05333
74710 02825 83784 84137 33587
000 000



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

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

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

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



VC01 - Chinese Robot

Chinese Air Defense

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

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

MORSE STATIONS



MX

Russian Military beacons

Current cluster frequencies:

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

Other frequencies:

L 6917.5, 8497.8 kHz

V 3658, 4150, 6809, 6928, 7027.5 kHz

R 5466 kHz

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

Cluster beacon slots:

.7 "D", Sevastopol

.8 "P", Kaliningrad

.9 "S", Severomorsk

.0 "C", Moscow

.1 "A", Astrakhan (inactive)

.2 "F", Vladivostok

.3 "K", Petropavlovsk Kamchatskiy

.4 "M", Magadan



M01 / M01a

M01a, 4598 kHz, 24-09, 0008 UTC

i.p. ... 68281 68281

501 501 501 69189 69189 [R]

111 000

M01a, 4609 kHz, 24-09, 0031 UTC

i.p. ...1264

333 11783 11783 (R)

333 12883 12883 (R)

333 12683 12683 (R)

04001

224 224 224 224 224 224

333 11483 11483 (R)

333

333 12783 12783 (R)

333 12783 12783 (R)

333 12783 12783

224 224 224 333 11563 11563 (R)

333 12473 12473 (R)

12473

224 224 224 333 12673 12673 (R)

111 000

M01, 5020 kHz, 03-09, 1958 UTC

463 131 30 =

56046 54189 36746 86455 01158 82314 12521 70900 25231 64086

96662 46779 73605 25276 69275 66239 95961 88174 86316 84417

02298 94500 80852 12727 36830 31992 92664 47113 26443 44371

= 131 30 000



M12

13386/12189/11491 kHz, 03-09, 1500/1520/1540 UTC

725 1 (R) 8414 110 8414 110
46541 04040 06936 12602 29331 54872 72389 69431 58647 30062
68033 18528 04780 84153 06582 64910 05792 30996 90356 69942
66187 79359 27068 78441 50896 38573 15201 55258 15765 91081
58755 32875 10093 58135 20167 58574 06238 33962 89041 01256
71202 38073 21262 99839 44766 17668 89628 00743 99144 49628
84746 58571 83029 85251 56034 36359 98570 24768 03854 00951
62710 28024 80649 07330 57300 82673 58280 31065 84307 27849
79190 76338 26820 80420 16145 87947 40758 72228 04541 21007
43275 55321 28752 01167 41315 00374 80204 91338 42612 88142
68204 18958 57369 67628 49904 56340 20698 78552 63363 47770
91922 70322 59031 89584 62412 55144 02069 51297 20342 18387
000 000

13386/12189/11491 kHz, 03-09, 1700/1720/1740 UTC

725 1 (R) 5363 117 5363 117
16002 10456 05812 95317 45592 51324 16477 86803 86961 71143
86270 29277 26924 17553 74267 74414 42804 24103 78843 91072
43100 39959 17712 68715 09272 11167 75589 40458 58130 36999
42654 71810 08008 74290 13949 65833 31451 15879 41989 65892
04296 12225 72142 35377 27927 57499 69013 78502 60539 84290
53715 09481 66071 44460 72187 00167 62521 21177 92773 23941
61466 90499 44391 28725 56032 83013 48004 18162 03368 15749
61212 18282 97476 99818 57226 70041 57253 84915 15251 89520
08353 18923 85831 80990 62870 71091 62589 21057 53025 31117
72209 98459 59958 98373 19731 25213 67855 24604 15376 38314
60259 23333 23966 41352 62427 30357 97359 39245 89174 39073
42907 57953 09176 89079 93494 85462 60160
000 000

5893/4593 kHz, 23-09, 2120/2140 UTC

785 1 (R) 9261 125 9261 125
20184 66343 29631 52813 35716 43309 35920 06016 95281 32954
66553 92792 89582 44346 70712 54338 03862 91568 74915 19224
48475 32946 25488 85731 74125 30689 00453 47916 51589 00630
74899 75809 53072 81638 20765 59911 04309 79121 30307 40313
35397 69748 32255 36636 27497 50455 98572 47026 64851 38088
52722 99352 37109 63422 24746 83755 65872 05304 79179 41517
61175 33468 09871 67884 78590 28330 85084 80320 46221 23958
30350 73481 06802 49772 68961 72549 69617 77549 16468 67982
94361 71948 57125 65964 58400 56056 83270 56361 06114 58814
58950 25539 77510 61705 99487 80586 50762 42493 10515 63569
62130 56194 20594 45293 90500 00325 56890 54858 33902 54463
34890 80107 97115 09312 47574 05532 94114 26804 82825 87796
90636 70025 80682 92456 21783
000 000



M89 - Chinese military

A special THANKS to our monthly contributor JPL for his massive amount of M89 logs. Thanks a million JP!

Stations and strings:

V A7TR A7TR A7TR DE DI9Q DI9Q	V VXL1 VXL1 VXL1 DE XIW2 XIW2	HGPH DE DLV2
V 5RAB 5RAB 5RAB DE M9AB M9AB	V WZG6 WZG6 WZG6 DE 4VTG 4VTG	DP09 DE BBPS
V 7NPE 7NPE 7NPE DE QV5B QV5B	V YUQW YUQW YUOQ DE ASDF ASDF	HOP5 DE DLV2
V 6TRW 6TRW 6TRW DE J9NS J9NS	V ZRM7 ZRM7 ZRM7 DE LCM0 LCM0	4NRS DE DLV2
V 7NPE 7NPE 7NPE DE QV5R QV5R (faulty txm)	V N4FM5 N4FM5 N4FM5 DE DUT491 DUT491	DP09 DE DK05
V 8CPZ 8CPZ 8CPZ DE XW6W XW6W	V Q5U8 Q5U8 Q5U8 DE 8QPP 8QPP	DGS1 DE DLV2
V 8DKB 8DKB 8DKB DE ODY8 ODY8	V QHV8 QHV8 QHV8 de 8QPP 8QPP	DP09 DE HMP1
V 8PEX 8PEX 8PEX DE T15F T15F	V VV VV VV Q2M Q2M DE NYZ NYZ	B2MS DE DLV2
V BNGC BNGC BNGC DE XSV85 XSV85	V DKSL DKSL DKSL DE ALSK ALSK	DP09 DE CGBW
V BIQ9 BIQ9 BIQQ9 DE ISL2 ISL2	V 3A3J 3A3J 3A3J DE B4ZJ B4ZJ	ONNW DE DLV2
V BRH0 BRH0 BRH0 DE 8NGG 8NGG	V HER6 HER6 HER6 DE WU6L WU6L	DP09 DE HITB
V B9SR B9SR B9SR DE AL6R AL6R	V BR3S BR3S BR3S DE JU9D JU9D	8IVR DE DLV2
V CQ CQ CQ DE DP91 DP91	V DGG6 DGG6 DGG6 DE 3A7D 3A7D (faulty ?)	DP8291
V CQ CQ CQ DE DP0491 DP0491	V TY9D TY9D TY9D DE EPX2 EPX2	DP4691
V DKG6 DKG6 DKG6 DE 3A7D 3A7D	V VV VV VV 4GN 4GN 4GN DE DE QJ7 QJ7	DP6991
V DKSL DKSL DKSL DE ALSK ALSK	V VV CQ CQ CQ DE UKNO UKNO	DP7191
V DKIL DKIL DKIL DE ALSK ALSK (faulty txm)	V VV WNF WNF WNF DE FXM FXM	DP8191
V DP9J DP9J DP9J DE CQ CQ	VK6EN K6EN K63N DE D3MR D3MR	DP7391
V E10B E10B E10B DE JHG2 JHG2	V DF4J DF4J DF4J DE D3MR D3MR	DP6591
V GKLO GKLO GKLO DE TYUI TYUI	V FJ4B FJ4B FJ4B DE D4MR D4MR	DP6791
V GKN7 GKN7 HKN7 DE F3J5 F3J5	V SNT9 SNT9 SNT9 DE D3MR D3MR	DP7391
V H2FL H2FL H2FL DE DRV8 DRV8	V DF4J DF4J DF4J DE D3MR D3MR	DP4091
V JKDJ JKDJ JKDJ DE SLBC SLBC	V 43A 43A 43A DE A34 A34	LKB5 DE 6IVI
V M8JF M8JF M8JF DE RIS9 RIS9	V K6EN K6EN K63N DE D3MR D3MR	G5N6 DE 6IVI
V MW3D MW3D MW3D DE 2SLC 2SLC	V VV 2GHY 2GHY 2GHY DE RBR7 RBR7	VIQ8 DE 6IVI
V N4FM5 N4FM5 N4FM5 DE NAT491 NAT491	V VV 3XSY 3XSY 3XSY DE RBR7 RBR7	8GT5 DE 7G6Y
V PGG9 PGG9 PGG9 DE M16Y M16Y	V VV 4GN 4GN 4GN DE DE QJ7 QJ7	FHY6 DE 7G6Y
V RA5J RA5J RA5J DE BP2S BP2S	V U2MD U2MD U2MD DE 3PWG 3PWG	DH3E DE T5RG
V RXP7 RXP7 RXP7 DE CZT2 CZT2	V VV Q3TI Q3TI DE U2ID U2ID U2ID	8JU7 DE 7G6Y
V S2LZ S2LZ S2LZ DE YBA6YBA6	C5YF C5YF DE 6DEH	MKU8 DE 7G6Y
V SR3H SR3H SR3H DE FGH8 FGH8	F8TZ DE D0R0	DH3E DE LDR5
V SXL6 SXL6 SXL6 de 9QFZ 9QFZ	XB1L DE CQPZ	QA1W DE 7G6Y
V TKLO TKLO THLO DE TYUI TYUI	JOTV DE DLV2	DH3E DE 8BHG
V TY9D TY9D TY9D DE EOX2 EPX2	DPO9 DE 8PNT	ZD3S DE 7G6Y
V VTX7 VTX7 VTX7 DE TZ7B TZ7B		QA1W DE 7GBY
		DH3E DE 8BHG

M89 data and voice transmissions

freq	utc	date	day	details
8073	0001	02-09-2015	Wed	XSV85 4+4 QPSK 75/1000 LSB data
8073	0001	05-09-2015	Sat	XSV85 4+4 QPSK 75/1000 LSB data
8073	1131	07-09-2015	Mon	XSV85 4+4 QPSK 75/1000 LSB data
8073	0002	08-09-2015	Tue	XSV85 4+4 QPSK 75/1000 LSB data
8073	1132	08-09-2015	Tue	XSV85 4+4 QPSK 75/1000 LSB data
8073	0002	10-09-2015	Tue	XSV85 4+4 QPSK 75/1000 LSB data
8073	1136	10-09-2015	Tue	XSV85 4+4 QPSK 75/1000 LSB data
8073	1131	11-09-2015	Tue	XSV85 4+4 QPSK 75/1000 LSB data
8073	0002	17-09-2015	Thu	XSV85 4+4 QPSK 75/1000 LSB data
8073	1131	17-09-2015	Thu	XSV85 4+4 QPSK 75/1000 LSB data
5500	1034	18-09-2015	Fri	4+4 QPSK 75/1000 LSB data
8073	0002	20-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data

freq	utc	date	day	details
8073	1130	20-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	0002	21-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	1131	21-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	0002	22-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	1132	22-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	1131	24-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	0002	25-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	1131	25-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	0001	26-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	1132	26-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	0001	27-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	1131	27-09-2015	Sun	XSV85 4+4 QPSK 75/1000 LSB data
8073	1130	28-09-2015	Mon	XSV85 4+4 QPSK 75/1000 LSB data
8073	0001	29-09-2015	Tue	XSV85 4+4 QPSK 75/1000 LSB data
8073	1130	29-09-2015	Tue	XSV85 4+4 QPSK 75/1000 LSB data
8073	0001	30-09-2015	Wed	XSV85 4+4 QPSK 75/1000 LSB data
8073	1130	30-09-2015	Wed	XSV85 4+4 QPSK 75/1000 LSB data
8073	0001	02-09-2015	Wed	XSV85 voice callup
8073	0001	05-09-2015	Sat	XSV85 voice callup
8073	1130	07-09-2015	Mon	XSV85 voice callup
8073	0001	08-09-2015	Tue	XSV85 voice callup
8073	1130	08-09-2015	Tue	XSV85 voice traffic
8073	0001	10-09-2015	Tue	XSV85 voice callup
8073	1136	10-09-2015	Tue	XSV85 voice callup
8073	1130	11-09-2015	Tue	XSV85 voice callup
8073	1212	11-09-2015	Tue	XSV85 voice traffic
8073	0001	17-09-2015	Thu	XSV85 voice callup, male operator
8073	1130	17-09-2015	Thu	XSV85 voice callup, male operator
8073	1201	17-09-2015	Thu	XSV85 voice traffic, male operator
5500	1031	18-09-2015	Fri	XSV85 voice traffic
8073	0001	20-09-2015	Sun	XSV85 voice callup, male operator
8073	0022	20-09-2015	Sun	XSV85 voice traffic
8073	1130	20-09-2015	Sun	XSV85 voice callup, male operator
8073	0001	21-09-2015	Sun	XSV85 voice callup, male operator
8073	1130	21-09-2015	Sun	XSV85 voice callup, male operator
8073	0001	22-09-2015	Sun	XSV85 voice callup, male operator
8073	1129	22-09-2015	Sun	XSV85 voice callup, male operator
8073	1130	24-09-2015	Sun	XSV85 voice callup, male operator
8073	0001	25-09-2015	Sun	XSV85 voice callup, male operator
8073	1130	25-09-2015	Sun	XSV85 voice callup, male operator
8073	0001	26-09-2015	Sun	XSV85 voice callup, male operator
8073	0031	26-09-2015	Sun	XSV85 voice traffic
8073	1130	26-09-2015	Sun	XSV85 voice callup, male operator
8073	0001	27-09-2015	Sun	XSV85 voice callup, male operator
8073	0022	27-09-2015	Sun	XSV85 voice callup, male operator
8073	1130	27-09-2015	Sun	XSV85 voice callup, male operator
8073	1129	28-09-2015	Mon	XSV85 voice callup, male operator
8073	0001	29-09-2015	Tue	XSV85 voice callup, male operator
8073	1130	29-09-2015	Tue	XSV85 voice callup, female operator
8073	0001	30-09-2015	Wed	XSV85 voice callup, male operator
8073	0019	30-09-2015	Wed	XSV85 voice traffic, male operator
8073	1129	30-09-2015	Wed	XSV85 voice callup, male operator

Messages:

8073 kHz, 01-09, 1137 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA
HR MSG GA PSE CY
NR NR 0728 CK 131 35 0901 1615 ==
TTA 3U6 3AN 3U7 TAU
773 354 367 4A. NN3 445 474 43D 3DU 4DT 4D5 TA7
773 TAD
773 TAN
773 TU3
773 354 367 4AD NN3 445 474 437 3DU 4DT 4D5 TUT
773 354 367 4AD NN3 435 474 43D 3DT TTU 4DT 4DU TUA
773 357 373 4AA NN3 445 3DU 4DT 4D6 TUU
773 353 37U 4AA NN3 435 3DT TTU 4DT 4D6 TU4
773 TU5
773 357 373 4AD NN3 445 3DU 4DT 4D6 TU6
773 TU7
773 TUN
773 356 4AA NN3 445 3DU 4DT 4DT 4D6 T3T
773 T3A
773 T3U
773 T33 III ==
773 356 4AA NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 3UD N47 3U7 3UN
TUT
773 354 367 4AD NN3 435 474 43D 3DT TTU 4DT 4D5 476 AR
MSG AGN MSG AGN
NR NR 0728 CK 131 35 0901 1615 == (Repeats message)

8073 kHz, 07-09, 1130 UTC, voice callup
8073 kHz, 07-09, 1131 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 07-09, 1138 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG PSE CY (1141z)
NR 0740 CK 243 35 09 EEEEE
NR 0740 CK 243 35 0907 1545 =
TT7 3U6 3EEE
MSG AGN =
TT7 3U6 3AN 3U7 TAU
773 357 373 4T3 NN3 446 3D3 4DT 4D6 TA7
773 354 367 4T3 NN3 446 4.. 43D 3D3 4DT 4D5 TAD
773 TU4
773 354 367 4T4 NN3 435 474 43D 3DT TTU 4DT 4D5 TAN
773 TUT
773 TU3
773 357 (Cont'd)
773 354 365 4AA NN3 446 474 43D 3D3 4DT 4D5
MSG AGN
MSG AGN
NR 0740 CK 243 35 0907 1545 BT (Repeats message)

5415 kHz, 02-09, 1311 UTC

3UTD N33T 3N7D 7N74 K K
R R ... GA K (Both stations on this frequency)
BK
R R YT YK
R TU D3D4 A747 5NA. (Cont'd) K K
.... 18 K
HR RPT K K
R QSL 2118 K
C H. RR
MSG GA K K
R R GA
MSG NR 030 CK 199 30 0902 2100 RMKS 5106 TO 7596 K K
R R GA K K
R R ==
N65T 74U4 DT54 U667 DT75 U46T T75D AD4T TT47 TTUA
643U 6TDA D3T5 4N4A (Cont'd)

8073 kHz, 02-09, 0001 UTC, XSV85 voice callup
8073 kHz, 02-09, 0001 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 02-09, 0004 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0729 CK 114 35 0902 0704 ==
TTU 3U4 3A4 TAU
773 357 373 4T3 NN3 445 3DU 4DT 4D6 TA7
773 357 373 4AD NN3 445 3DU 4DT 4D6 TAD
773 TAN
773 TUT
773 TU3
773 354 367 4AD NN3 445 474 43D 3DU 4DT 4D5 TUA
773 357 373 4AA NN3 445 474 437 3DU 4DT 4D6 TUU
773 353 37U 4AA NN3 435 3DT TTU 4DT 4D6 TU4
773 TU5
773 353 37U 4AA NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU6
773 TU7
773 TUN
773 356 4AA NN3 445 3DU 4DT 4D6 T3T
773 T3A
773 T3U
773 III BT T33
773 35U 4AA NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 AR (0012z)
NR 0729 CK 114 35 0902 0704 == (Repeats message)
AR (Switched to voice USB – 0022 UTC - Female operator)

8110 kHz, 02-09, 0827 UTC

/ANR ? K
/ AS AS
VVV NMQ. DE 6DEH K
NR QSA 2 K K
NR QSA 2
QSL ? QSL ?
NR U NR ?
B AS
VV C5YF C5YF DE 6DEH K K
/QSA 2 ... 501III = 7501 AR K
// QSA ? K
NR N RPT ... W 6U3D AR
/ QSL 164. ? K
QSL 16. QSL 1630 ? K
NNR .. AA EEEEE U NR ?

5324 kHz, 05-09, 1335 UTC

N3U4 764N 643U 3T6A 77NU A665
III III = = D7? DU7A TU53 7T7U D47T (Cont'd)
III III = = 3N33 DU6T U7D5 3D7A ADA7 (Cont'd)
III III III

5260 kHz, 05-09, 1515 UTC

OK ALL OK AGN AGN OK ADD
OK
GB GB GB OK
JUST JUST JUST KEY KEY KEY KP KP
BK BTR BTR
OK BEC BEC BEC
OK BOZ BOZ
CS CS CS
FIG FIG FIG
LTR LTR
SPC SPC SPC OK
CRT CRT
QSD QSD
D = HA050 05 ==
HEEE RH NR 3 PSE TCRMA EEEEE EEEE
RMKS YRNR 2 PSQ QSL ? HR QSA ? HR QA EEEEE
HR QSS O QSA U 2 PSE QSY K EEEEE
= H EEEE = = U345 65T7 5E
QSL ? QSL ?
QQSO QSO
QSA 2 QSA 2
22 QSA 2
VY VY VY VIA VIA YY OK STD STN STN STN
RCA RCV R RCVR
XMTR XMTR XMTR XQS XQS YSE XQS YR YR
OK TY TY TY
TMW TMW

5335 kHz, 05-09, 1044 UTC

290 WK
NR GA K
R U NW M EEEE R V NW COMS
R U NW COMM 4905..OTECP HR K
R F9EEEE
VV F8TZ DE DORO K
R HR AKEEEEE
R QSA 2 HR WK NR 290 K WK NR GA K
R HR WK NR 290 K
R U HW COMM 4790 U NOTE KPHR K
VV F8TZ DE DORO K (Now sending DORO using long zeros)
VV F8TZ DE DORO K
VV F8TZ DE DORO K
VV DHU9 DE DORO K
R QSA 2 HR WK NR 28 EEEE
R QSA 2 HR EEEEE
R QSA 2 HR WK NR 290 K WK NR .. K
R U NW COMM 4790 U COMM KPH R K
VV F8TZ DE DORO K
VV F8TZ DE DORO K
VV GK4U DE DORO K
R QSA 2 HR WK NR 290 U WK NR GA K
R U NW COMM 4790 U N. EEEEE
R U NW COMM 4790 U NOTE KP K EEEEEEE
R U NW COMM
VV F8TZ DE DORO K
R QSA 2
NOTE KP K

6825 kHz, 05-09, 1023 UTC

N63U NAUA N5AA NNNA NATA TTT3 T74U NNNA NATA TTT3 TU74 NUU6
TUU6 N7UA N5DA 7N47 T5N6
AR W
QSL 1203
OK OK NIL SK GB
ABCDEFGHIJKLMNPOQRSTUVWXYZ (Cont'd)
... 5A3D N3T7 D4AU NAAD U7A5 3N5A 63.. (Cont'd)
III = 34

5462 kHz, 05-09, 1405 UTC

5125 = ACD1/AFD2 AR K
RPT K (Both stations on this frequency)
NRPT .. T K
N RPT TIME K
R F NR 019/EX EEEEEEE
R F NR 019/EX EEEEEEE
R F NR 019/EX 1003 RMKS 0021 TO 5125 = ACD1/AFD2 K
R QSL 2205 K
N QSL 2205 K
R U F GA K
NR F NR 019/EX 2205 RMKS 5125 TO 0021 = = ACD1/AFD2 AR K
R QSL 2209 AR K
NR 7G GA K
7G GA K
R MSG NR 020 CK 99 97 0905 RMKS 0021 TO 5125 =
AT64 757U 36DA 6T5U U33A 6D7A U43U 5T74 TUAU TTAA K
RPT TIME K
N RPT TIME K
RPT
NR RPT TIME K
NPT TIME K
R MSG NR 0A EEEEEEE
R MSG NR 020 CK 99 97 0905 1020 EEEE
NR GA K
R MSG NR 020 CD EEEEE
R NR 020 EEEEEEE
R NR 020 CK 99 9EEEE
NR NR O EEEE
R NR EEEEEEE
R NR 020 CK 99 97 0905 2215 RMKS 0021 TO 5125 =
AT64 757U 36DA 6T5U U33A 6D7A U43U 5T.4 TUAU TTAA AR
E F TTAA K
F TTAA K
NR GA K
R EEEE R 11U EEEEE
R 11W EEEEEEE
R 11U EEEEE
R 11W = 5363 NUNT (Cont'd)

6858 kHz, 05-09, 1108 UTC

R XB1L DE CQPZ R QSA 2 QSA ? K
R
QSA 2 K
R HR WK NR 15
R HR R HR WK NR 38
R AGN
R HR WK NR 38 A EEEE
R HR WK NR 38 K
R U 173E EEEEE
U A730 K
R U N EEEEE R U 1730 K
OMM1 EEEEEEE
R U 1730 K
OMM J0D EEEEEEE
R U 1730 COMM 10MA K
AGN

5288 kHz, 06-09, 1712 UTC

R RPT 81W 6DUN 6DUN K
R RPT 74W 5A7N 5A7N K
R RPT 74W TO 81W =
5A7N DT63 43NT UND5 6NAT D6U3 36DT 6DUN AR K
R U MSG GA K

8073 kHz, 05-09, 0001 UTC, XSV85 voice callup
8073 kHz, 05-09, 0001 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 05-09, 0010 UTC, Morse
8073 kHz, 05-09, 0027 UTC, XSV85 voice traffic

V BNGC (x3) DE XSV75 (x2) (Operator sending XSV75 vice XSV85)
HR 7G GA PSE CY
NR 0735 CK 112 35 0905 0713 ==
TT5 3U4 3A4 TAU
773 353 37U 4AA NN3 445 3DU 4DT 4D6 TA7
773 TAD
773 TAN
773 TU3
773 356 4AT NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUT
773 353 37U 4T7 NN3 445 3DU 4DT 4D6 TUA
773 TUU
773 356 4T7 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU4
773 TU5
773 35U 4A7 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU6
773 353 37U 4T7 NN3 445 3DU 4DT 4D6 TU7
773 TUN
773 35U 4AT NN3 434 3DT TTA N34 TTA ND4 TT5 4DT III BT 4D6 T3T N34 T33
773 356 4T3 NN3 444 3DA 4DT 4D6 AR
7G AGN
NR 0735 CK 112 35 0905 0713 = (Repeats message)
AR

4285 kHz, 06-09, 1345 UTC

773 355 373 4.. N.D 4... 4D6 75D 4D3 3DU
773 357 37U 4.. 4.6 4D6 75D 4D3 3DU TU.
773 357 37U 4AD 4.. 4N5 75D 4D3 ..U A5R MG GA
NR 0011 CK 135 35 0000 0009 0000 1600
UA3 UT3 . 3U6 TE4 TT5
773 3AD 3AN 353 463 444 5D6 33D 4D3 TTT6
773 3AD 35. 4UT 445 4D6 33D 4D3 3AN 353 4T3 445 4D6 33D 4D3 TT7
773 3AT 353 4UT 446 4D6 33D 4D3 3AN 353 4UT 446 4D7 4D6 33. 4D3 .N
773 3AD 353 4UT 446 4D7 4D6 3AN 3.. 4UT 447 4D6 TAT
773 3AN 354 N3D I.4 ..AA N.. 4T3 4.6 4D6 .3D 4D3 3AN 3.3 4T3 ..46 467 4D6
75D 4.3 TAA
773 3AD 3.4 37U N3D 353 4AA NN. 4T3 436 467 4D5 75. 4D3 3AN 353 4.3 III
4.. 4D6 TAU
773 3AD 343 4AA N3D EUT3 456 4D6 3AN 357 4T3 447 4D6 TA3
773 3AD 356 37U 4TA N3D 4T3 446 467 4D6 75D 4D3 3AN 357 463 446 46N
4D6
773 AGN
NR 0011 CK 135 35 0000 0009 00000 6 16 0000 0000
UA3 UT3 TT6 3A6 TT4 ...G.3 3AD 3AN 3.3 4T3 445 4D6 33D 4D3 TT6
773 3AD 353 4UT 445 4D6 33D 4D.. AN 353 4T3 ..5 E.D6 33D 4D3 TTD
773 3AD (Cont'd)
SK

6871 kHz, 06-09, 2141 UTC

6NTA TAUN 7T4U 3NA4 637U U57A
AR QSL ? K
R RPT 19W K
R RPT 19W 36AD 36AD K
R QSL 0643 HR WK NR 0.230 K
R HR WK NR 0011 TK
R HR NIL SK
HR HR NL EEEEE R HR NIL SK

10947 kHz, 07-09, 0951 UTC

LZ057A0/6781/9082 AR
HR AGN EEEE AG
NR 4.745 RMKS 6780 TO 40.2/4.20 = COMM/1830/LZ057A0/6781/4082 AR
QSL ? HR WK NR 31

5388 kHz, 06-09, 1304 UTC

AGN
VV JO EEEEE
VV JM EEEEE
4 EEEEE
VV JOTV DE DW EEEEE
VV N EEEEE
VV JOTV DE DLV2 K
R DPO9 DE 8PNT R QSA 2 QSA ? K
DP09 DE 8PNT R QSA 2 QSA ? K
VV HB EEEEE
VV HGPH DE DLV2 K
DP09 DE BBPS R QSA 2 QSA ? K
DP09 DE BBPS R QSA 2 QSA ? K
VV HOP5 DE DLV2 K
R DP09 DE BBPS R QSA 2 QSA ? K
VV 4NRS DE DLV2 K
VV NEEEE
VV 4NRS DE DLV2 K (1313z)
R DP09 DE DK05 R QSA 2 QSA ? K K
R DP09 DE DK05 R QSA 2 QSA ? K
VV DGS1 DE DLV2 K
R DP09 DE HMP1 R QSA 2 QSA ? K
R DP09 DE HMP1 R QSA 2 QSA ? K
VV B2MS DE DLV2 K
R DP09 DE CGBW R QSA 2 QSA ? K
R QSA 2 K
R HR WK NR 32 K
R HR WK NR 12 K
R HR KJ EEEEE R HR KP U K
R HR KP U K
R
VV ONNW DE DLV2 K
R DP09 DE HITB R QSA 2 QSA ? K
R QSA 2 K
R HR WK NR 32 K
R HR WK NR 18 K
R HR KT EEEP U HR KP U K
OK
VV 8IVR DE DLV2 K
VV 8IVR DE DLV2 K
VV FOST DE DLV2 K
VV FOST DE DLV2 K

3676 kHz, 08-09, 1435 UTC

N5U6 553N 75UA 5NNN
III 43DU 3D3N 5UN5 DA63 (Cont'd)
AR AR D1D = 3EEEE TJTY K TJTY K TJTY K
RPT EEE R R RPT 2P 11W TO 21W ==
76NU (Cont'd)
AR K K K K
TJTY K K
R R GFT3 K
R R EXE4 K EXE4 K
R R PJJ3 K PJJ3 K
R R R
TJTY K TJEEEE U GA GA

6936 kHz, 08-09, 0946 UTC

DP7691 W =
35II
35W = TA3A II =
35W = TA3A W
CFM 3 IIII 40W 40W 40W TDA5 W
46W (repeat groups)
85W
K K = = NAU4 N7UA N6N4 N574 N73U NUN5 NDNU (Cont'd)
R NIL SK R NIL SK

8073 kHz, 08-09, 0001 UTC, XSV85 voice callup
8073 kHz, 08-09, 0002 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 08-09, 0006 UTC, Morse
8073 kHz, 08-09, 0030 UTC, XSV85 voice traffic

V BNGC (x3) DE XSV85 (x2)
HR MSG GA
HR MSG GA
NR NR 0741 CK 118 35 0908 0706 == =
TTD 3U4 3A4 TAU
773 353 37U 4T3 NN3 446 3D3 4DT 4D3 TA7
773 353 37U 4T3 NN3 435 466 3DT TTU 4DT 4D3 TAD
773 353 37U 4A7 NN3 435 3DU 4DT 4D6 TAN
773 TUT
773 TU3
773 357 373 4T6 NN3 445 3DU 4DT 4D6 TUA
773 TUU
773 356 4T7 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU4
773 TU5
773 353 37U 4T4 NN3 445 3DU 4DT 4D6 TU6
773 TU7
773 356 4T7 NN3 445 3DU 4DT 4D6 TUN
773 354 367 4AA NN3 446 474 43D 3D3 4DT 4D5 III = = T3T
773 T3A
773 T3U
773 T33
773 357 373 4AA NN3 445 474 437 4DU 4DT 4D5 AR
MSG AGN MSG AGN
NR NR 07
MSG AGN MSG AGN
NR NR 0741 CK 118 35 0908 0706 = =
AR

8073 kHz, 08-09, 1130 UTC, XSV85 voice traffic
8073 kHz, 08-09, 1132 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 08-09, 1137 UTC

V BNGC (x3) DE XSV75 (x2) (Operator sending XSV75 vice XSV85 again)
HR 7G GA PSE CY
NR 0742 CK 211 35 0908 1622 =
TTD 3U6 3AN 3U7 TAU
773 356 35N 4T3 NN3 446 467 3D3 4DT 4D7 TA7
773 356 35N 4T3 NN3 446 3D3 4DT 4D7 TAD
773 353 37U 4T4 NN3 446 3DT TTU 4DT 4D6 TAN
773 TU3
773 357 37U 4A7 NN3 445 3DU 4DT 4D6 TUT
773 357 37U 4A7 NN3 445 46D 3DU 4DT 4D6 TUA
773 TUU
773 356 4T6 NN3 445 3DU 4DT 4D6 TU4
773 TU5
773 356 373 4T4 NN3 445 3DU 4DT 4D6 TU6
773 356 37U 4T7 NN3 445 3DU 4DT 4D6 TU7
773 357 373 4AA NN3 445 3DU III BT 4DT 4D6 TUN
773 354 373 4AA NN3 446 474 43D 3D3 4DT 4D5 T3T N34 T33
773 357 373 4AA NN3 435 474 43D 3DT TTU 4DT 4D5 3UD TAU
773 TA7
773 356 35N 4T3 NN3 435 466 3DT TTU 4DT 4D7 TUN
773 354 374 4AA NN3 446 474 43D 3D4 4DT 4D5 T3T N34 T33
773 354 374 4AA NN3 446 474 43D 3D3 4DT 4D5 476 3UN TU7
773 354 374 4AA NN3 435 474 437 3D3 4DT 4D5 TUN
773 354 374 4AA NN3 446 474 43D 3D4 4DT 4D5 T3T N34 T33
773 III F BT 354 374 4AA NN3 446 474 43D 3D3 4DT 4D5 476 AR
7G EEEEE MSG AGN
NR 0742 CK 211 35 0908 1622 = (Repeats message)

8073 kHz, 10-09, 0001 UTC, XSV85 voice callup
8073 kHz, 10-09, 0002 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 10-09, 0006 UTC

V BNGC (x3) DE XSV85 (x2)
HR 7G GA PSE CY (0007z)
NR 0745 CK 107 35 0910 0710 =

8073 kHz, 11-09, 1130 UTC, XSV85 voice traffic
8073 kHz, 11-09, 1131 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 11-09, 1140 UTC, Morse
8073 kHz, 11-09, 1212 UTC, XSV85 voice traffic

V BNGC (x3) DE XSV85 (x2)
HR MSG H GA HR E EEEEEEE
HR MSG HGA HR MSG SG A NR
NR NR 0748 CK 352 35 0911 1622 = =
TAA 3U6 3AN 3U7 TAU
773 TA7
773 356 4A7 NN3 445 3DU 44U N3D 4T3 NN3 435 3DT TTU 4DT 4D6 TAD
773 356 4T7 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TAN
773 356 4T7 NN3 434 3DT TTA N34 TTA ND4 TT5 34U N3D 4TU NN3 445 466
3DU 4DT 4D6 TUT
773 353 37U 4T7 NN3 434 3DT TTA N34 TTA ND4 TT5 34T N3D 4TU NN3 435
466 3DT TTU 4DT 4D6 TUA
773 TU3
773 353 373 4T4 NN3 445 3DU 4DT 4D6 TUU
773 357 373 4T3 NN3 445 3DU III = = 4DT 4D6 TU4
773 TU5
773 357 373 4T3 NN3 435 3DT TTU 4DT 4D6 TU6
773 357 373 4AA NN3 435 474 43D 3DT TTU 4DT 4D6 TU7
773 TUN N34 T33
773 357 373 4AA NN3 446 474 43D 3D3 4DT 4D5 3UD TAU
773 TA7
773 356 4T3 NN3 446 46D 3D4 4DT 4D6 TAD
773 356 4A7 NN3 445 3DU 346 N3D 4T3 NN3 446 467 3D4 4DT 4D6 TAN
773 357 373 4T3 NN3 446 467 3D3 4DT 4D6 TUT
773 354 367 4TU NN3 436 46D 3D4 4DT 4D5 TUA
773 354 367 4T3 III = = = =
NN3 446 474 43D 3D3 4DT 4D6 TUU
773 TU3
773 357 367 4T3 NN3 446 474 43D 3D4 4DT 4D5 TU4
773 TU5
773 357 373 4T3 NN3 447 46D 3D5 4DT 4D6 TU6
773 TU7
773 TUN N34 T33
773 357 373 4AA NN3 436 474 43D 3D4 4DT 4D5 3UN TAU
773 TA7
773 356 4T3 NN3 4 3D5 4DT 4D6 TAD
773 TAN
773 357 373 4T3 NN3 446 467 3D4 4DT 4D6 TUT
773 TUA
773 354 367 4T3 NN3 436 474 43D 3D4 4DT 4D5 TUU
773 TU3
773 354 367 4T3 NN3 447 III = = 474 43D 3D5 4DT 4D5 TU6
773 354 367 4T7 NN3 436 474 43D 3D4 4DT 4D5 TU7
773 357 367 4AA NN3 447 474 43D 3D5 4DT 4D5 TUN N34 T33
773 354 367 4AA NN3 447 474 43D 3D5 335 N3D 4AA NN3 456 3D6 4DT 4D4
734 N47 3UD AR AR
HR GA ASA G HH AHR MSG GA
NR NR 0749 CK 42 35 0911 163EEEEEE
NR NR 0749 CK 42 35 0911 1630 = =
TTN N5U TAA N53 TAD N54 7TT TTA 746 7T5
77T 6T6 5TA N7D N35 7T5 4TN NAN 74D 33U
34U N3U 7A3 777 TAU 773 TA7 773 TAD 773
TAN 773 TUT 773 TUA 773 TU3 773 N... 7
3AN NSU 5 AR AR

4737 kHz, 11-09, 1413 UTC

NR 215 CK 91 25 0911 2210 K
= = T4A5 D = =
T4A5 DTA6 ADUU 5A43 ANAU T64N 6354 7UUT U4ND 64NN (Cont'd - 1414z)

5197 kHz, 11-09, 1400 UTC

543T 6355 NN43 435U 3D5N 44U4
III III III = = = 5374 DA45 7556 4754 7T5A A7TN UU6D DT74 D746 (Cont'd)

9153 kHz, 10-09, 0919 UTC

773 353 U46 35A 4UT 445 4D6 3D3 N3D 3DU TAU
773 353 U46 35A 4T3 446 4D6 3DU TA3
773 353 U46 35A 4UT 445 4D6 3D3 N3D 3DU AR
HR MSG GA
NR 44 CK 28 49 0910 1700
5D7 576 6A5 5T7 676 6A5 66D 355 5NT T73
TAA T34 T6A 64T T64 TAA T65 T6A 6A5 335
53U TT5 3D4 3T5 U36 AA7 N7D 3T5 ZNN
AGN
NR 44 CK 28 40 9 10 1700
5D7 576 6A5 5T7 676 6A5 66D 355 5NT T73
TAA T34 T6A 64T T64 TAA T65 T6A 6A5 335
53U T65 3D5 3T5 U36 AA7 N7D 3T5
ZNN SK
(Same format as XSV85 - Different message number format)

6636 kHz, 11-09, 1429 UTC

UTTTU NAA6 T454 W W
LLA LLLL
===== N7N6 N7UA TDUA T55U TAA6 N5UA TTT5 NU63 T444 (Cont'd)
AR

7621 kHz, 11-09, 1345 UTC

65D6 III =
U5UA N3DN U67T 3A34 6NU6 DNU5 76DN 464T TTTT TTTT DAA7 7TAU
(Cont'd)
III = AR AR
HR MSG GA HR MSG GA
MSG NR 0045/CCK CK 299 16 0911 2130 RMKS 7980 TO 7996 7995 ==
35T 3N3T 46NA TTTT TTTT 4DT5 (Cont'd)

9153 kHz, 11-09, 0928 UTC

467 N3D 445 4D6 75D 4D3 3AN 353 4T3 N3D 4A7 445 4D6 7.D 4D3 TT6
773 3AD 354 N3D 353 4UT N3D 4T3 446 467 .3D 445 4.6 33D 75D 4DU 3AN
353 4T3 N3D 4T7 445 4D6 33D 75D 4DU TTD
773 3AD 354 N3D 353 4UT N3D 4T3 446 467 N3D 446 4D6 33D 75D 4DU 3AN
353 4T3 III N3D 4A7 446 4D6 33D 75D 4DU TTN
773 3AD 354 N3D 353 4UT N3D 4T3 446 367 N3D 445 4D6 3AN 353 4T3 N3E
4A7 446 4D6 TTT
773 3AD 353 N3D 354 37U 4T3 446 N3D 447 4D3 75D 4DU 3AN 357 37U 4T3
447 N3D 446 467 4D6 33D 75D 4DU TAA
773 3AD 353 N3D 354 4T3 446 N3D 446 467 4D6 75D 4D3 3AN 357 37U 4T3
446 467 4D6 75D 3D3 TAU
773 3AD 357 4T3 446 467 N3D 447 46D 4D6 75D 4D3 3AN 357 4T3 447 46D
476 75D 4D3 TA3
773 III 3AD 353 N3D 354 4.3 43. N3D 446 .6D 4D6 3AN 357 37U 4T3 446 467
N3D 4.5 4D6 75D 4.3 ..
AGN AGN
NR 000. 26 CK 221 35 0000 0009 111. (Repeats message)
34 . 3 UT3 TAA 7U6 TT4
773 3AD 354 N3D (Cont'd)
445 4D6 75D 4D3 A
HR MSG GA
NR 00024 Ck 56 35 00000 0009 110653
UA3 UT3 TAA 3U4 3A4 TT4 TT5 TT6 773 354
37U 4UT 445 N3D 536 467 4D6 75D 4D3 3DU
TT6 TT. 773 35A U46 353 4UT 445 4D6 3DU
TAT TAA 773 35A U46 353 4T3 .45 4D6 3DU
TAU 773 353 4T3 446 4D6 3DU TA3 773 353
4T3 445 4D6 3D3 N3D 3DU
MSG AGN
NR 00024 CK 56 35 0000 00009 110653
UT3 UTE (Repeats message)
445 4. 3D3 N3D 3DU ZNN SK

8948 kHz, 11-09, 0957 UTC

CQ (x3) DE DP91 (x2) V
PSE ALL TC FREQ WK
DP8291 QSA 3 U ?
DP82 DP8291 QSA 3 NIL
NIL SK SK GB GB
7291 QSA 4
DP4091 QSA 3 ?
DP4091 QSA 3 NIL
DP4091 DP4091 QSL 3 NIL
DP6991 QSA 3 U ?
DE DP6991 QSA 3 U ?
7191 QSA 5 ?
98UT4. DUEEE
691 QSA 5 U ? K
DP7191 QSA 3 U ?
DP8191 AR
DP7391 QSL 3 ? U ?
DP6191 QSA 5 U ?
970 DP69 AR D.
DP6191 QSA 3 NIL
NIL SK GB GB
DP719 QTR 15? 0373 ?
DP6591 QSA 2 U ?
DP6591 QSA 2 ?
DP6791 QSA .. ?
DP6191 QSA 5 U
DP6591 QSA 2 ?
DUT4795 ? TUU ?
DP7391 QSA 5 ?
R DP6191 QSA . ?
DP6191 QSA 3 NIL
NIL SK SK GB GB
DP4091
DP DP4091 AR DP4091 DP409 AR QSA 3 NIL
R DP6191 QSA 5 U ?
DP7391 QSA 3 U ?
DP71 FM 5? 02373 ?
CL CL CL
R R 6191 QSA 5 U ?
DP4091
DP6.91 QSA ?
DP4091 QSA 3 ?
DP6391 QSA . ?
DP7191 QSA 3 NIL
DP7191 QSA 3 ?

6421//9131 kHz, 13-09, 0935 UTC

QRW L1... 1900 COMM 48.. AR AGN
NR .8. 1730 RMKS .780 TO 5.8/4.2. =
SVC QRW 4020 QRW L 1840.8.9.0 COMM ..0 AR
A QSL ? HR WK NR 3.. K

6666 kHz, 17-09, 1526 UTC

T457 D7AN 35U4 TND4
4367 DNAU3444444433343444444 AR AR
3444455555557333334444T635U.5ADT3T7N65 AT37 6A4D A535 ATAN
T3UA TTUU 636U D675 (Cont'd)
AR

6792 kHz, 18-09, 0958 UTC

34N6 4N7D 334A 456T 76T3
RPT BT 005/EX AR
AGN AGN
W TO... W K (Very weak – both stations on this frequency)
AGN
R RPT 1W .. 4W BT TDT4 N3.T 465T AT4. 65A6 5TND .. (Cont'd)

3333 kHz, 13-09, 2210 UTC

CJK2/HGSA8 AR K
R QSL 0611 K
R FF GA K
R FF NR .AGN LF NR 02/EX 0602 RMKS .A.N
FF NR 02/EX 0612 RMKS =
.23.TO 7.6. R 02/.T.
MIZO6 AR K
QSL 0614 K
R HR 7G GA K
R GA K
7G NR 01 CK 115 85 0914 0600 RMKS AGN
NR 01 CK 115 85 0914 0600 RMKS 7167 TO 4234 K
GA K
= DN6U D3T6 NNST6 675D7 (Cont'd)
QSL 06.. K
R AS
K K K K SK
R R SK

8073 kHz, 17-09, 0001 UTC, XSV85 voice callup, male operator
8073 kHz, 17-09, 0002 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 17-09, 0007 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY HR MSG GA PSE CY HR MSG GA PSE CY
NR 0779 CK 119 35 0917 0702
= TA7 3U4 3A4 TAU
773 356 4T3 NN3 446 3D3 4DT 4D6 TA7
773 TAD
773 356 4T4 NN3 435 3DT TTU 4DT 4D6 TAN
773 357 373 4A7 NN3
445 3du 4DT 4D6 TUT
773 357 373 4A7 NN3 ..5 474 43D 3D3 4DT 4D5 TUA
773 357 373 4A7 NN3 446 474 437 3D3 4DT 4D6 TU3
773 357 373 4A7 NN3 435 474 437 3DT TTU 4DT 4D6 TUU
773 353 373 4T7 NN3 445 3DU 4DT 4D6 TU4
773 TU5
773 TU6
773 356 4T6 NN3 445 3DU 4DT 4D6 TU7
773 TUN
773 357 373 III = 4AD NN3 435 3DT TTU 4DT 4D6 T3T N34 T33
773 357 373 4AA NN3 445 3DU 4DT 4D6 AR
MSG AGN NR 0779 CK 119 35 0917 0702
= TA7 3U4 3A4 TAU

6825 kHz, 19-09, 1001 UTC

CQ (x3) DE DP91 (x2) V
HR PSE ALL LL .. (x2)
DP91 DE DP7591 K
... QSA 2 K
DP91 DE DP7591 K
DE DP7591 Q.. K

6566 kHz, 21-09, 1341 UTC

R K H
VVV .700
R DE 3N R DE SP.7 K
VV 8700 DE ACLG K
R DE SPY7 K
QSU 5
MBA? K
R QSA 2 K
KP K
R
VV LNU3 DE K
VV LNU

8073 kHz, 17-09, 1130 UTC, XSV85 voice callup, male operator
8073 kHz, 17-09, 1131 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 17-09, 1137 UTC, Morse
8073 kHz, 17-09, 1201 UTC, XSV85 voice traffic, male operator

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0780 CK 144 35 0917 1606 = =
TT7 3U6 3AN 3U7 TAU
773 35U 4T3 NN3 446 3D3 4DT4 D6 TA7
773 TAD
773 35U 4T6 NN3 435 3DT TTU 4DT 4D6 TAN
773 356 4T7 NN3 445 3DU 4DT 4D6 TUT
773 357 373 4T7 NN3 435 474 3DT 4DT 466 TUA
773 357 373 4T7 NN3 446 474 437 3D3 335 N3D 4T7 NN3 445 3DT TTU 4DT
4D6 TUU
773 TU3
773 353 37U 4T7 NN3 445 3DT TTU 4DT 4D6 TU4
773 TU6
773 356 4A7 NN3 445 3DU 4DT 4D6 TU5
773 356 4A7 NN3 435 466 RP EEEE RPT A EEEEE RPT 1WE 90 466 3DT TTU
4DT 4D6 III = TU7
773 TUN
773 357 373 4T7 NN3 435 3DT TTU 4DT 4D6 T3T
773 T3A
773 T3U
773 T33
773 353 373 4T7 NN3 445 3DU 4DT 4D6 3UD TAU
773 35U 4T3 NN3 435 466 3DT TTU 4DT 4D6 476 3UN 475 AR AR
MSG AGN
NR 0780 CK 144 35 0917
NR 0780 CK 144 35 0917 1606 = =
TT7 3U6 3AN 3U7 TAU (Repeats message)
AR AR AR AR

5500 kHz, 18-09, 1030 UTC

i.p. R QSL 6 DE HR E QR. DG1Z ? DG1Z 10
R QSL .. RZ
RPT G A 1810
R
CQ N ? CQ ? CQ UP K
CQ R R ? CQ LW VV . A

5500 kHz, 18-09, 1031 UTC, voice traffic
5500 kHz, 18-09, 1034 UTC, 4+4 QPSK 75/1000 LSB data

7777 kHz, 21-09, 1142 UTC

IEC = IEC IEC = 210 EEEEE
IEC = 2189 KR. EEEEE HR NR 05KRS HR
NR 10 RMKS R
HR NIL SK GB
AS AS (Both stations on this frequency)

8073 kHz, 21-09, 1130 UTC, XSV85 voice callup, male operator
8073 kHz, 21-09, 1131 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 21-09, 1135 UTC, Morse, V BNGC (x3) DE XSV85 (x2)

5555 kHz, 22-09, 1107 UTC

AR K
RPT 27 K
HR RPT 28 DWK
R R HR RPT 28W K
R RPT 28W N5RR EEE R RPT 28W DN3T DN3T K
R QSL 1908 K

8073 kHz, 21-09, 0001 UTC, XSV85 voice callup, male operator
8073 kHz, 21-09, 0002 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 21-09, 0005 UTC, Morse

V BNGC (x3) DE XSV85 (x2)
HR 7G GA PSE CY
NR 0787 CK 122 35 0921 0717 = =
TUA 3U4 3A4 TAU
773 357 N35 374 4T3 NN3 445 474 437 3DU 4DT 4D5 TA7
773 TAD
773 TAN
773 357 374 4T7 NN3 434 474 437 3DT TTA N34 TTA ND4 TT5 4DT 4D5 TUT
773 357 374 4T7 NN3 445 474 437 3DU 4DT 4D5 TUA
773 TUU
773 TU3
773 356 4T7 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU4
773 TU5
773 356 4T3 NN3 445 3DU 4DT 4D6 TU6
773 TU7
773 356 4AA NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUN
773 356 37U 4AA NN3 III BT 434 474 437 3DT TTA N34 TTA ND4 TT5 4DT 4D6
T3T N34 T33
773 356 4AA NN3 434 3DA 4DT 4D6 AR AR (0016z)
AHR 7G AGN
7G AGN
NR 0787 CK 122 35 0921 0717 =
TUA 3U4 3A4 TAU
773 357 (Repeats message)

6937 kHz, 22-09, 1034 UTC

i.p. MSG NR 034.AR K3 EX .922.835 = W RM 3.MK..
OK =
N7U6 TAU4 .N5 53A4 T4D4 T7U. NAAA T4T4 N3DU (Cont'd)

8073 kHz, 22-09, 0001 UTC, XSV85 voice callup, male operator
8073 kHz, 22-09, 0002 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 22-09, 0007 UTC, Morse

V BNGC (x3) DE XSV85 (x2) (Sending XSV85 vice XSV85)
HR MSG GA PSE CP
NR 0789 CK 109 35 0922 0704 =
3U4 3A4 TAU
773 357 37U 4T3 NN3 445 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TA7
773 TAD
773 TAN
773 357 373 4T4 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUT
773 TUA
773 357 373 4T6 NN3 445 3DU 4DT 4D6 TUU
773 TU3
773 353 37U 4T7 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU4
773 TU5
773 356 4A7 NN3 445 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU6
773 TU7
773 356 4AA NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUN N34 III BT T33
773 356 4AA NN3 434 3DA 4DT 4D6
MSG AGN
NR 0789 CK 109 35 0922 0704 =
TUU 3U4 3A4 TAU
773 357 (Repeats message)

8073 kHz, 25-09, 1130 UTC, XSV85 voice callup, male operator
8073 kHz, 25-09, 1131 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 25-09, 1138 UTC, Morse

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
MSG NR 0796 CK 242 35 0925 1622 = =
TU5 3U6 3AN 3U7 TAU
773 357 373 4T3 NN3 445 3DU 346 N3D 4T3 NN3 446 467 3D3 4DT 4D6 TA7
773 354 (Cont'd)

8073 kHz, 22-09, 1129 UTC, XSV85 voice callup, male operator
8073 kHz, 22-09, 1132 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 22-09, 1136 UTC, Morse

V BNGC (x3) DE XSV85 (x2) (Sending XSV85 vice XSV85)
HR MSG GA PSE CY
NR 0790 CK 139 35 0922 1607 =
TUU 3U6 3AN 3U7 TAU
773 TA7
773 TAD
773 TAN
773 TU3
773 TUA
773 TUU
773 356 4T7 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUT
773 353 373 4T7 NN3 445 3DU 4DT 4D6 TU4
773 TU5
773 TU6
773 356 4T4 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU7
773 353 37U 4AD NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUN N34 T33
773 357 373 4AA NN3 445 474 437 3DU 4DT 4D6 3UD TUN
773 357 373 4AA NN3 445 3DU 33N N3D 4AA NN3 III = = 446 3D3 4DT 4D6
T3T N34 T33
773 357 373 4AA NN3 445 3DU 335 N3D 4AA NN3 435 466 3DT TTU 4DT 4D6
476 3UN TUN N34 T33
773 357 373 4AA NN3 446 3D3 4DT 4D6 476 AR AR
MSG AGN
NR 0790 CK 139 35 0922 1607 = =
TUU 3U6 3AN 3U7 TAU
773 TA7 (Repeats message)

8073 kHz, 24-09, 1130 UTC, XSV85 voice callup, male operator
8073 kHz, 24-09, 1131 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 24-09, 1137 UTC, Morse

V BNGC (x3) DE XSV85 (x2)
HR MSG GA
NR 0794 CK 192 35 0924 1600 = =
TU4 3U6 ..N 3U7 TAU
773 35. .T3 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TA7
773 TAD
773 TAN
773 TUT
773 35U 3D. 4AD NN3 434 3DT TTA (Cont'd - Horrible CW Operator!)

8073 kHz, 25-09, 0001 UTC, XSV85 voice callup, male operator
8073 kHz, 25-09, 0002 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 25-09, 0005 UTC, Morse

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0795 CK 98 35 0925 0714 = =
TU5 3U4 3A4 TAU
773 353 4T3 NN3 445 3DU 4DT 4D6 TA7
773 TAD
773 35U 4AU NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TAN
773 TUT
773 TUA
773 TUU
773 TU3
773 35U 4AD NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU4
773 TU6
773 35U 4A4 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU5
773 353 373 4A5 NN3 445 3DU 4DT 4D6 TU7
773 353 373 4AN NN3 445 3DU 4DT 4D6 TUN N34 T33
773 357 373 4AU NN3 446 3D3 4DT 4D6 AR
AGN 7G AGN
NR 0795 CK 98 35 0925 0714 =
TU5 3U4 3A4 TAU
773 353 4T3 NN3 (Cont'd)

3553 kHz, 26-09, 1342 UTC

TTUN 67D7 AR
VV LKB AR DE 6EEEEEE
VV LKBAR DE 6IV EEEEE
VV LKB5 DE 6IVI K
RPT
R U KP K K
RPT K
VI S EEEE
VV GSN6 DE 6IVI K K
VV GSN6 DE 6IVI K
R U BOZ QSY NR 51 K
BOZ QSY NR 51 K
VV VIQ8 DE 6IVI K
R BOZ QSY NR 41 K
VV LKB5 DE 6IVI K
GA GA
R QSL K

8073 kHz, 26-09, 0001 UTC, XSV85 voice callup, male operator
8073 kHz, 26-09, 0001 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 26-09, 0005 UTC, Morse
8073 kHz, 26-09, 0031 UTC, XSV85 voice traffic

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0797 CK 46 35 0926 0722 =
TTN N5U TU6 N53 TT6 N53 700 TTA 746 6T4
6T6 6TA TUA 6T5 6AT TT5 6A4 UTN 6A5 3TD
6A6 N65 6A7 T3D 74D DTT TU4 DAA 6UU TT7
N34 TTN 635 4A5 65N TU4 DAA D5D NU7 DD3
D44 U3T 6A5 UD3 6A7 T45 AR
7G AGN
NR 0797 CK 46 35 0926 0722 =
TTN N5U TU6 N53 TT6 N53 7TT TTA 746 6T4
6T6 6TA TUA 6T5 6AT TT5 6A4 UTN 6A5 3TD
6A6 N65 BA7 T3D 74D DTT TU4 DAA 6UU TT7
N34 TTN 635 4A5 65N TU4 DAA D5D NU7 DD3
6A4 U3T 6A5 UD3 6A7 T45 AR
A HR 7G GA
NR 0798 CK 103 35 0926 0727 =
TU6 3U4 3A4 TAU
773 357 373 4T3 NN3 446 467 3D3 4DT 4D6 TA7
773 354 373 4TU NN3 445 3DU 4DT 4D6 TAD
773 TAN
773 TUT
773 TU3
773 353 37U 4TD NN3 434 4DT TTA N34 TTA ND4 TT5 4DT 4D6 TUA
773 TUU
773 TU4
773 355 4AT NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU5
773 353 37U 4A6 NN3 445 3DU 336 N3D 4A5 NN3 446 3D3 4DT 4D6 TU6
773 TU7
773 353 373 4AA NN3 445 3DU 4DT 4D6 TUN N34 T33
773 357 373 4AA NN3 446 III BT 3D3 4DT 4D6 AR
7G AGN
NR 0798 CK 103 35 0926 0727 =
TU6 3U4 3A4 TAU
773 (repeats message)
AR AR

8073 kHz, 26-09, 1130 UTC, XSV85 voice callup, male operator
8073 kHz, 26-09, 1132 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 26-09, 1142 UTC, Morse

V BNGC (x3) DE XSV85 (x2)
MSG GA NR 0799 CK 283 35 0926 1631 =
TU5 36 3AN 3U7 TAU
773 357 373 4T3 NN3 446 3D3 335 DUU N7T NUU N34 4T3 NN3 447 46D
3D5 4DT 4D5
773 TU4
773 353 (Cont'd)

6818 kHz, 26-09, 1009 UTC

N3N7 UTTA A7T6 5NT4 765U 6ADA
AR
QSL ?
VV 8GT5 DE 7G6Y K
R QSA 2 QSL ? K (All stations on this frequency, but mostly very weak)
NR PRT TO . K
NRPT ... 8W K
R RPT 7W TO 8W = U.7. ANN. AR N37U EEEEEEEE AR K
R RPT 27W K
R RPT 27 W UN73 UN73 K
QSL 081. K
R HR WK NR 00430 K
R HR WK NR 05.2 K
R HR NIL SK
HR NIL SK
FHY6 DE 7G6Y K
DH3E DE T5RG QSA 2 QSA ? K
R QSA 2 QSL ? K
R... R R 81W UAA4 UAA4 K
QSL 0815 K
R HR WK NR 00430 K
HR WK NR 627 K
R HR NIL SK
HR NIL SK (1015z)
VV 8JU7 DE 7G6Y K
R QSA 2 QSL ? K
R HR WK NR 00430 K (1017z)
R HR NIL SK
VV MKU8 DE 7G6Y K
DH3E DE LDR5 QSA 2 QSA ? K
R QSA 2 QSL ? K
R QSL 181. K
R HR WK NR 00430 K
HR WK NR 08310 K
R HR NIL SK
NIL SK
VV QA1W DE 7G6Y K
DH3E DE 8BHG R QSA 2 QSA ? K
R QSA 2 QSL ? K
R QSL 1819 K
R HR WK NR 00430 K
WK NR 0455 K
R AS
N Q....
VV ZD3S DE 7G6Y K
R QSA 2 QSL ? K
R RPT 64W D6T3 D6T3 K
R HR WK NR 00430 K
R HR WK NR 00430 K
R HR NIL SK (1023z)
VV QA1W DE 7G6Y K
3E DE 8B R QSA 2 QSA ? K
R HR QWJ U QSY NR 63 K
R HR QRJ U QSY NR 63 K
OK
VV QA1W DE 7GBY K
N DH3E DE 8BHG R QSA 2 QSA ? K
R HR QRJ U QSY NR 24 K
R OK
VV QA1W DE 7G6Y K
N DH3E DE 8BHG R QSA 2 QSA ? K
R HR QRJ U QSY NR 44 K
OK

8073 kHz, 27-09, 0001 UTC, XSV85 voice callup, male operator
8073 kHz, 27-09, 0001 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 27-09, 0007 UTC, Morse
8073 kHz, 27-09, 0021 UTC, XSV85 voice traffic

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
MSG NR 0801 CK 123 35 0927 0716 ==
TU7 3U4 3A4 TAU
773 357 373 4T3 NN3 447 46D 3D5 336 N3D 4T3 NN3 456 3D6 4DT 4D5 TA7
773 353 37U 4T3 NN3 436 467 3D4 4DT 4D6 TAD
773 TU4
773 353 37U 4T3 NN3 446 3D3 4DT 4D6 TAN
773 TUT
773 TU3
773 353 37U 4T3 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUA
773 TUU
773 35U 4T6 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU5
773 357 373 4A6 NN3 447 46D 3D5 4DT 4D6 TU6
773 353 37U 4T3 NN3 445 3DU 4DT 4D6 TU7 III =
773 T3T N34 T33
773 353 37U 4AA NN3 445 3DU 4DT 4D6 TUN
773 357 373 4AA NN3 446 3D3 4DT 4D6 AR
A HR MSG GA
MSG NR 0802 CK 50 35 0927 0721 =
TTN N5U TU7 N53 TT6 N54 7TT TT3 746 N65
6T5 6T6 6TA TUA N65 6T5 6AT TT5 6A4 UU3
6A5 UDT 6A6 N35 6A7 T5U 6U4 3UT 74D 6UU
TT7 N34 TTN 635 4A4 DAU U56 N35 DA3 TU4
DAA D5D NU7 DD3 6A4 U35 6A5 U44 6A7 T55 AR

8073 kHz, 27-09, 1130 UTC, XSV85 voice callup, male operator
8073 kHz, 27-09, 1131 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 27-09, 1143 UTC, Morse

V BNGC (x3) DE XSV85 (x2)
HR 7G GA
NR 0803 CK 48 35 09 27 1613 =
TTN N5U TU7 N53T AD N54 7TT TT4 746 N65
6T5 6T6 6TA TUA N65 666 ATT A56 A4U U56
A5U 676 A6N U56 A7T 5D6 U43 UT7 4D6 6UU
TTN N34 TAA 635 4A4 DAU D3T TU4 DAA D5D
NU7 DD3 6A4 U43 6A5 UUD 6A7 T5D AR
7G GA
NR 0804 CK 324 35 0927 162N
TU7 3U6 3AN 3U7 TAU
773 357 367 4T3 NN3 44D 3D5 335 N3D 4UT NN3 455 3D7 4DT 4D4 TA7
773 357 373 4T3 NN3 446 3D3 33N N3D 4A6 NN3 453 3D5 4DT 4D5 TAD
773 353 4UT NN3 435 3DT TTU 335 N3D 4A6 NN3 446 3D3 4DT 4D6 TAN
773 TUU
773 TU3
773 353 4T3 NN3 445 3DU 4DT 4D6 TUT
773 TUA
773 353 (Cont'd)

8110 kHz, 29-09, 1012 UTC

AGN
VV TC2 7G NR 09/CCK CK 25 37 0929 0145 RMKS 1951 TO .11 AGN
VV TC2 7G NR 09/CCK CK 25 37 0929 0145 RMKS 1951 TO 7110 / 7201 / 7582
/ 7129 / 7205 / 7732 / 1231 / 7566 AR
VV TC3 UGT/ AGN
VV TC3 UGT COUM8 SAFN
VV TC3 UGT COMM 7386/1020/G42 /1958 AGN
VV TC3 UGT COMM 7386/1020/G42A AGN
VV TC2 T AGN
VV TC3 UGT COMM AGN
VV TC3 UGT COMM 7386/1020/G42/1957 AR
VV TC4 UGT COMM 7263/1035/Z32/1951 AR
VV TC5 UGT COMM 1652/1305/41/1451 AR
VV TC6 UGT COMM 717AM AGN
VV TC6 UGT COMM AGN
VV TC6 UGT COMM 7183/1475/Z38/1951 AR

8073 kHz, 28-09, 1129 UTC, XSV85 voice callup, male operator
8073 kHz, 28-09, 1130 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073kHz, 28-09, 1138 UTC, Morse

V BNGC (x3) DE XSV85 (x2)
HR 7G GA PSE CY (1140z)
NR 0808 CK 208 35 0928 1625 ==
TUD 3U6 3AN 3U7 TAU
773 354 36D 463 NN3 454 3D6 345 N3D 4U4 443 3D6 34U N3D 4AA NN3 456
3D6 4DT 4DA TA7
773 354 367 4T4 NN3 446 3D3 345 N3D 4A6 NN3 44D 46N 3D6 34U N3D
4AU NN3 447 375 4DT 4D4 TAD
773 353 373 4A5 NN3 445 3DU 345 N3D 4A5 NN3 435 466 3D3 4DT 4D6 TAN
773 TU3
773 353 4A5 NN3 445 3DU 4DT 4D6 TUT
773 TUA
773 TUU
773 353 4A5 NN3 434 3DT TTA N34 TTA ND4 TT6 4DT 4D6 TU4
773 357 373 4AA NN3 III BT BT 447 46D 3D5 4DT 4D5 TU5
773 354 367 4AU NN3 456 3D6 34A N3D 4AA NN3 TT6 N34 437 3D5 4DT 4D4
TU6
773 357 367 4AA NN3 446 674 43D 3D3 4DT 4D6 TU7
773 TUN N34 T33
773 357 37U 4AA NN3 445 3DU 4DT 4D6 3UD TAU
773 354 367 4AA NN3 453 3D5 335 N3D 4AT NN3 446 46D 3D3 4DT 4D3 TA7
773 354 367 4AA NN3 TT5 N36 437 3D5 335 N3D 4AA NN3 435 3DT TTU 4DT
4D65 TU4
773 TU5
773 354 373 4AD NN3 446 3D3 336 N3D 4AD NN3 III BT 435 3DT TTU 4DT
4D5 476 3UN 475 AR
HR MSG GA
MSG NR 0809 CK 55 35 0928 1627 =
TTN N5U TUD N53 TAD N54 7TT TT6 746 N65
6T5 6T6 6.. TUA N65 666 AT TA6 6A4 U43
6A5 UU5 6A6 N35 T5A 7T5 U6U43 (Cont'd)

8073 kHz, 29-09, 0001 UTC, XSV85 voice callup, male operator
8073 kHz, 29-09, 0001 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 29-09, 0005 UTC, morse

V BNGC (x3) DE XSV85 (x2)
HR 7G GA PSE CPY (0008z)
NR 0810 CK 135 35 0929 0729 ==
TUN 3U4 3A4 TAU
773 354 36D 4U4 45U DTU 3DD 336 N3D 4AA NN3 447 3D6 4DT 4DA TA7
773 354 367 4AA NN3 447 46D 3D5 4DT 4D4 TAD
773 353 373 4A4 NN3 435 3DT TTU 4DT 4D6 TA.
773 TU3
773 356 4A5 NN3 445 3DU 4DT 4D6 TUT
773 TUA
773 356 4A5 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUU
773 353 373 4AU NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU4
773 357 373 4AA NN3 447 3D5 4DT 4D5 TU5
773 354 367 4AU NN3 453 III BT 34U N3D 4AA NN3 TT5 N34 437 3D5 4DT
4D4 TU6
773 357 373 4AA NN3 435 46D 3D3 4DT 4D6 TU7
773 TUN N34 T33
773 357 37U 4AA NN3 445 3DU 4DT 4D6 AR AR
MSG AGN
NR 0810 CK 135 35 0929 0709 ==
TUN (Repeats message)

8888 kHz, 28-09, 1027 UTC

3D4
355N 4D67 5T47 6AD7 765U DT67 N47A 3D64 (Cont'd)
AR K
35U5 4ND7 5T3U 6A37 7637 (Cont'd)

8073 kHz, 29-09, 1130 UTC, XSV85 voice callup, female operator
8073 kHz, 29-09, 1130 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 29-09, 1138 UTC, morse

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0812 CK 231 35 0929 1644 =
TUN 3U6 3AN 3U7 TAU
773 354 367 4AA NN3 44D 3D6 34T N3D 4AA NN3 446 3D4 4DT 4D3 TA7
773 357 373 4AA NN3 446 3D4 346 N3D 4AA NN3 445 3DU 4DT 4D6 TAD
773 TAN
773 TUT
773 TU3
773 353 4A6 NN3 445 3DU 4DT 4D6 TUA
773 TUU
773 353 37U 4A4 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU4
773 TU5
773 357 373 4AA NN3 435 466 3DT TTU 4DT 4D6 TU6
773 357 373 4AA NN3 445 467 3DU 4DT 4D6 TU7
773 TUN N34 T33
773 357 III BT (Cont'd)

6421//9131 kHz, 30-09, 0947 UTC

RMKS TO 660/6.30 =
.OMM /.830/FLZ052./6./60. 333 01 =
901...EEEE BT
COMM/.../LZ52A0.68 AR
60051 FM .? 02... .201III =

9153 kHz, 30-09, 0953 UTC

N3D 3D. ..
773 354 473 4.. 3D 4A5 44. N3D 44D 4DN 4D. 75D 4D3 3D4 N4D 3.5 ..
773 .54 3.. N3D 354 U46 35. 4.. N.4. 445 4.7 4D6 75T .. 3D3 TAT TAA
773 354 37U N3D 354 U.6 .73 4T7 N3D 4AA 446 ..6 75D 4D3 3D. N3. 3DU
TAU 335 354 373 N4N 354 .III U.. 353 4AA 446 .D6 75D 4D3 ..U ..
773 354 37. N.D 3.. .6 35. 4AD 44. 75D 4D3 3DU.. AGN
NR 002.. CK .22 35 0930 (Cont'd)
AR

8073 kHz, 30-09, 0001 UTC, XSV85 voice callup, male operator
8073 kHz, 30-09, 0001 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 30-09, 0005 UTC, morse
8073 kHz, 30-09, 0019 UTC, XSV85 voice traffic, male operator

V BNGC (x3) DE XSV85 (x2)
HR 7G GA PSE CY (0006z)
NR 0814 CK 97 35 0930 0719 = =
T3T 3U4 3A4 TAU
773 357 373 4AA NN3 435 3DT TTU 4DT 4D6 TA7
773 357 373 4AA NN3 445 3DU 4DT 4D6 TAD
773 TAN
773 TU3
773 356 4AA NN3 445 3DU 4DT 4D6 TUT
773 TUA
773 356 4T4 NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TUU
773 353 373 4AA NN3 434 3DT TTA N34 TTA ND4 TT5 4DT 4D6 TU4
773 TU5
773 357 373 4AA NN3 435 3DT TTU 4DT 4D6 TU6
773 TU7
773 TUN N34 T33
773 357 373 4AA NN3 445 3DU 4DT 4D6 AR
MSG AGN
NR 0814 CK 97 35 0930 0719 = =
T3T 3U4 3A4 TAU (repeats messages)
AR

8073 kHz, 30-09, 1129 UTC, XSV85 voice callup, male operator
8073 kHz, 30-09, 1130 UTC, XSV85 4+4 QPSK 75/1000 LSB data
8073 kHz, 30-09, 1140 UTC, morse

V BNGC (x3) DE XSV85
HR MSG GA PSE CY
HR MSG GA PSE CY
NR 0815 CK 328 35 0930 1623 = =
T3T 3U6 3AN 3U7 TAU
773 TA7
773 357 373 4TD NN3 445 (Cont'd)



MC03 - Chinese Air Defense

8747 kHz, 17-09, 1205 UTC

VVV (x2) 4GN (X3) DE (x2) QJ7 (x3)
NR 4D6U 4D6U 4D6U
NR 4D6U 4D6U 4D6U
MSG MSG MSG BT
NR 4D6U 4D6U 4D6U
MSG MSG MSG =
NR 7700 A33U TAUU NT7T 4N3T
NR 00A6 4A3N TA55 NT4T 4N3T
NR 77AT UT43 TA66 NT4T 4N3A
NR 002. N7N7 TA55 NT5T 4N3A
NR (Cont'd)



UM10 - 10-minutes net

6826 kHz, 02-09, 1032 UTC ZYVM
 3860 kHz, 02-09, 1627 UTC LH5N //3343 kHz
 3541 kHz, 02-09, 1629 UTC HDNA
 6486 kHz, 27-09, 2258 UTC CWS4 (new callsign)

DIGITAL MODES



HM01
Dirección General de Inteligencia

17480 kHz, 19-09, 2158 UTC
 Very strong carrier but bad hum. Unreadable weak OM/SS talking, then into 88544 58772 87187 64204 63768 33111



HM02

HM02 is back. Copied by various dxers. Only one by me though.

7351 kHz, 27-09, 0459 UTC, FSK callup then into morse

999 205 37 =
 37064 76227 36375 17773 03734 72059 49261 95618 00132 26728
 26857 96571 98828 35229 06447 47638 11996 90976 56308 76874
 25318 07799 07212 53418 89497 85485 68244 30868 04989 98855
 42641 51982 69473 03549 71386 57894 36598
 = 205 37
 37064 76227 36375 17773 03734 72059 49261 95618 00132 26728
 26857 96571 98828 35229 06447 47638 11996 90976 56308 76874
 25318 07799 07212 53418 89497 85485 68244 30868 04989 98855
 42641 51982 69473 03549 71386 57894 36598
 = 205 37 000

M42 & X06



Modes:
Various digital modes, CW,
Tones (Mazenska / Mazielka)

Russian Government & Intelligence



Reception of the majority of the M42d schedules was extremely poor this month. At least at my location. Many were just barely audible and a larger number were too poor to copy.

M42 – various modes

14432 kHz, 04-09, 1146 UTC, CW

RGP RGP DE UCU UCU QSY 17460 QSY 17460
RGP RGP RGP DE UCU UCU QSY 17460 QSY 17460
RGP RGP RGP DE UCU UCU QSY 17460 QSY 17460

19416 kHz, 04-09, 1139 UTC, CW

RGP RGP RGP DE UCU UCU QSY 17460 QSY 17460
RGP RGP RGP DE UCU UCU QSY 17460 QSY 17460

11074.7 kHz, 24-09, 1625 UTC, Baudot 50/250 and CW

Encrypted traffic ending +++++ then into F1A/CW/250 QTC 910 32 24 1853 910 = FM 422548 FOR 925597 = into 5L message in F1A/CW

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

13467/11084 kHz, 02-09, 1840/1850 UTC	=8501 77431400000105)8143 ++++++
9237/6902/5085 kHz, 10-09, 1900/1910/1920 UTC	RYRYRY 5761 00000++++++162)
13382/11439/9182 kHz, 12-09, 1810/1820/1830 UTC	RYRYRY 5761 00000++++++162)
13382/11439/9182 kHz, 26-09, 1810/1820/1830 UTC	RYRYRY 5761 00000++++++162)

13465/11082/9050 kHz, 07-09-, 1840/1850/1900 UTC

=8501 90398515510971749	=81516 56126065016245481	=83231 735827907987374128
=8622 909840325872979121	=83817 615039236662289152	=81332 633164199883491179
=7893 50294159658536947	=88218 486838266096529136	=86333 9551480986:151193
=8174 546863370799563108	=82319 511065258714903103	=88834 14815692321221154
=8465 418421587995379122	=87720 208680737274258144	=87535 526607000513420108
=8606 523669221746872117	=84021 69078508378825692	=83336 83247659913026097
=7877 437061519161858149	=79422 72777489893155673	=81337 55369504064369698
=8508 37908229515151882	=82023 32536526094053574	=84438 853217549227214106
=9059 68708093469456835	=87124 787210726265763114	=86239 190531961738935107
=81110 585456631833570107	=82825 50284232984945596	=80340 303310659982730131
=82711 204770717435088137	=82126 133398609176656105	=86541 99043605020133690
=80212 069247709081315104	=84527 157171514887659120	=86742 517734312400000105
=79913 420766258697906133	=86428 95923864717180445)58143 ++++++
=85014 15134898636228263	=83029 606446982211931129	
=79115 09010425591497139	=84430 00158364175398062	

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

Link 16404 / 16405

18522/16276/14771 kHz, 23-09/24-09, 0800/0810/0820 UTC

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

Block No 1 : Link ID 16405 : 8th of month : Msg Number 225 : Msg Type 07145 : Group Count (?) 192
37456 19328 06411 35684 11934 00791 59067 63387

Link 20492

15816/13472 kHz, 23-09, 0925/0935 UTC

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

Block No 1 : Link ID 20492 : 23rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
06412 00000 00000 02124 31284 36353 00893 45404

Link 20501

15846/13383/11087 kHz, 01-09, 1650/1700/1710 UTC

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

Block No 1 : Link ID 20501 : 1st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
34156 00000 00000 00626 12857 34082 00893 06154

16251 kHz, 13-09, 1530 UTC

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

Block No 1 : Link ID 20501 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
34156 00000 00000 02221 12857 34228 00893 63054

15846/13383/11087 kHz, 22-09, 1650/1700/1710 UTC

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

Block No 1 : Link ID 20501 : 22nd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
26852 00000 00000 02714 32012 36324 00893 62594

15846/13383/11087 kHz, 29-09, 1650/1700/1710 UTC

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

Block No 1 : Link ID 20501 : 29th of month : Msg Number 145 : Msg Type 07145 : Group Count (?) 4
56989 00000 00000 00101 12857 00498 00893 08288

Link 24584

8142/6839/5271 kHz, 12-09, 2000/2010/2020 UTC

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

Block No 1 : Link ID 24584 : 12th of month : Msg Number 017 : Msg Type 07145 : Group Count (?) 4
60308 00000 00000 00556 40806 35257 00893 10592

Link 32799

19339/17477/15942 kHz, 29-09, 1400/1410/1420 UTC

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

Block No 1 : Link ID 32799 : 29th of month : Msg Number 095 : Msg Type 07145 : Group Count (?) 4
62701 00000 00000 04027 26836 00934 00893 59622

Link 32816 / 32817

15928/13501/11107 kHz, 03-09, 0600/0610/0620 UTC

Block No 0 : Total Message Size 47 blocks : This transmission contains one message.

Block No 1 : Link ID 32817 : 29th of month : Msg Number 037 : Msg Type 07145 : Group Count (?) 61
34961 08914 40684 02640 11596 37162 64161 39226

15928/13501/11107 kHz, 23-09/24-09, 0600/0610/0620 UTC

Block No 0 : Total Message Size 52 blocks : This transmission contains one message.

Block No 1 : Link ID 32816 : 19th of month : Msg Number 045 : Msg Type 07145 : Group Count (?) 91
53020 55986 00139 28138 62441 07303 01996 38308

15928/13501/11107 kHz, 30-09, 0600/0610/0620 UTC

Block No 0 : Total Message Size 74 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 32816 : 26th of month : Msg Number 047 : Msg Type 07145 : Group Count (?) 1
05849 02945 24705 22773 59615 40012 23167 51854

Link 36882

16172 kHz, 27-09, 1100 UTC

Block No 0 : Total Message Size 43 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 24th of month : Msg Number 065 : Msg Type 07145 : Group Count (?) 30
37448 15764 14838 08022 48247 05608 64634 20429

Link 40988

11157/9147/7918 kHz, 15-09, 2300/2310/2320 UTC

Block No 1 : Link ID 40988 : 15th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
22812 00000 00000 02048 06549 35375 00893 00504

Link 45057

16339/14704/12215 kHz, 13-09/27-09, 0900/0910/0920 UTC

Block No 0 : Total Message Size 19 blocks : This transmission contains one message.

Block No 1 : Link ID 45057 : 11th of month : Msg Number 187 : Msg Type 07145 : Group Count (?) 115
50540 26512 43757 15527 44730 36573 13035 59819

Link 45075

16322/14614/12186 kHz, 30-09, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45075 : 30th of month : Msg Number 097 : Msg Type 07145 : Group Count (?) 4
65293 00000 00000 02475 09055 35070 00893 28077

Link 41022

15636/13371 kHz, 01-09, 1410/1420 UTC

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

Block No 1 : Link ID 41022 : 1st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 03827 50730 36001 00893 14501

17545/15636/13371 kHz, 13-09, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 01068 50730 36056 00893 54156

Link 45075

16322/14614/12186 kHz, 23-09, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45075 : 23rd of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4
50664 00000 00000 00935 09055 36830 00893 34600

Link 45114 / 45115

16274/14753/12216 kHz, 13-09, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45114 : 11th of month : Msg Number 040 : Msg Type 07145 : Group Count (?) 174
34924 35669 13846 26409 56490 03159 35484 47383

16274/14753/12216 kHz, 26-09/27-09, 0800/0810/0820 UTC

Block No 0 : Total Message Size 35 blocks : This transmission contains one message.

Block No 1 : Link ID 45114 : 24th of month : Msg Number 045 : Msg Type 07145 : Group Count (?) 224
38292 05763 41141 37010 56490 02569 30239 19510

Link 45136 / 45137

8181 kHz, 02-09, 0700 UTC

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

Block No 1 : Link ID 45136 : 1st of month : Msg Number 240 : Msg Type 07145 : Group Count (?) 17
57996 04150 51781 13289 65099 06076 11018 30632

8181 kHz, 03-09, 0700 UTC

Block No 0 : Total Message Size 55 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 1st of month : Msg Number 242 : Msg Type 07145 : Group Count (?) 175
17936 06080 26408 39776 01166 41932 30103 16647

8181/6837 kHz, 04-09, 0700/0710 UTC

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

Block No 1 : Link ID 45137 : 4th of month : Msg Number 072 : Msg Type 07145 : Group Count (?) 4
42408 00000 00000 01978 09959 35087 00893 53295

8181/6837 kHz, 22-09, 0700/0710 UTC

Block No 0 : Total Message Size 64 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45137 : 21st of month : Msg Number 032 : Msg Type 07145 : Group Count (?) 63
45812 27842 62266 15242 01146 40533 14548 63831

9186/7671 kHz, 22-09, 1200/1210 UTC

Block No 0 : Total Message Size 64 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45137 : 21st of month : Msg Number 032 : Msg Type 07145 : Group Count (?) 63
45812 27842 62266 15242 01146 40533 14548 63831

8181/6837 kHz, 23-09, 0700/0710 UTC

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

Block No 1 : Link ID 45136 : 22nd of month : Msg Number 037 : Msg Type 07145 : Group Count (?) 17
63352 31654 02977 33938 55182 37312 53643 64865

9186/7671 kHz, 23-09, 1200/1210 UTC

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

Block No 1 : Link ID 45136 : 22nd of month : Msg Number 037 : Msg Type 07145 : Group Count (?) 17
63352 31654 02977 33938 55182 37312 53643 64865

8181 kHz, 24-09, 0700 UTC

Block No 0 : Total Message Size 13 blocks : This transmission contains 0 messages.

Block No 1 : Link ID 45136 : 23rd of month : Msg Number 040 : Msg Type 07145 : Group Count (?) 67
17764 12676 64443 12390 55182 04097 17103 65097

9186/7671 kHz, 24-09, 1200/1210 UTC

Block No 0 : Total Message Size 64 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 23rd of month : Msg Number 040 : Msg Type 07145 : Group Count (?) 67
17764 12676 64443 12390 55182 04097 17103 65097

8181/6837 kHz, 25-09, 0700/0710 UTC (probably incorrect msg nr in both transmissions)

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

Block No 1 : Link ID 45137 : 24th of month : Msg Number 190 : Msg Type 07145 : Group Count (?) 4
58152 00000 00000 02553 01146 01216 00893 57590

8181 kHz, 27-09, 0700 UTC

Block No 0 : Total Message Size 32 blocks : This transmission contains one message.

Block No 1 : Link ID 45137 : 25th of month : Msg Number 045 : Msg Type 07145 : Group Count (?) 215
28428 63970 36112 11964 07583 00782 32612 10101

9186/7671 kHz, 28-09, 1200/1210 UTC

Block No 0 : Total Message Size 32 blocks : This transmission contains one message.

Block No 1 : Link ID 45137 : 25th of month : Msg Number 045 : Msg Type 07145 : Group Count (?) 215
28428 63970 36112 11964 07583 00782 32612 10101

9186/7671 kHz, 29-09, 1200/1210 UTC

Block No 0 : Total Message Size 62 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45137 : 28th of month : Msg Number 047 : Msg Type 07145 : Group Count (?) 223
32257 38756 22913 21801 55182 36827 13658 24853

8181 kHz, 30-09, 0700 UTC

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

Block No 1 : Link ID 45136 : 29th of month : Msg Number 052 : Msg Type 07145 : Group Count (?) 249
32525 00738 22019 13590 55182 34653 16109 34617

9186/7671 kHz, 30-09, 1200/1210 UTC

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

Block No 1 : Link ID 45136 : 29th of month : Msg Number 052 : Msg Type 07145 : Group Count (?) 249
32525 00738 22019 13590 55182 34685 16109 34617

Link 49202

12183/10167/9285 kHz, 23-09, 2200/2210/2220 UTC

Block No 1 : Link ID 49202 : 23rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
22796 00000 00000 00441 28271 35432 00893 44062

12183/10167/9285 kHz, 30-09, 2200/2210/2220 UTC

Block No 1 : Link ID 49202 : 30th of month : Msg Number 002 : Msg Type 07136 : Group Count (?) 4
10468 00000 00000 03132 64780 35038 00893 22573

Link 49237

14394/12192/10527 kHz, 24-09, 1330/1340/1350 UTC

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

Block No 1 : Link ID 49237 : Corrupt Date : Msg Number 087 : Msg Type 07145 : Group Count (?) 4
06724 00000 00000 03944 39258 36543 00893 10955

Link 53277

16309 kHz, 02-09, 1244 UTC

Link ID 53277 2nd of month Msg Number 002 Type 07145 Group Count (?) 4

X06 - Mazielka

Freq.	Code	Date	UTC	Details
20336	X06	1-9	0916	Mazielka. Sequence: 246531
18523	X06	1-9	1140	Mazielka. Sequence: 325614
13838	X06	2-9	0630	Mazielka. Sequence: 256341
17445	X06	2-9	0825	Mazielka. Sequence: 362154
16115	X06	2-9	1105	Mazielka. Sequence: 215346
16013	X06	2-9	1421	Mazielka. Sequence: 645321
16132	X06	3-9	1314	Mazielka. Sequence: 352416
14570	X06	4-9	0822	Mazielka. Sequence: 324615
12215	X06	4-9	1016	Mazielka. Sequence: 361245
13547	X06	4-9	1028	Mazielka. Sequence: 625413
14944	X06	9-9	1003	Mazielka. Sequence: 621543
14944	X06	9-9	1056	Mazielka. Sequence: 621543
15878	X06	9-9	1159	Mazielka. Sequence: 621543
10653	X06	11-9	0837	Mazielka. Sequence: 356412
14863	X06	11-9	1016	Mazielka. Sequence: 615243
16117	X06	14-9	0925	Mazielka. Sequence: 463125
15656	X06	14-9	1304	Mazielka. Sequence: 364152
15687	X06	15-9	0857	Mazielka. Sequence: 154263
17454	X06	15-9	1204	Mazielka. Sequence: 325614
16219	X06	18-9	0830	Mazielka. Sequence: 324615
18197	X06	18-9	0835	Mazielka. Sequence: 645321
12215	X06	18-9	1009	Mazielka. Sequence: 361245
18750	X06	21-9	0732	Mazielka. Sequence: 641523
14538	X06	22-9	1706	Mazielka. Sequence: 211216
14538	X06	22-9	1707	Mazielka. Sequence: 116154
11464	X06	23-9	1710	Mazielka. Sequence: 211216
14944	X06	30-9	1118	Mazielka. Sequence: 621543
13527	X06b	6-9	1606	Mazielka. Sequence: 1--6--
13527	X06b	6-9	1628	Mazielka. Sequence: 1--6--
11576	X06b	17-9	1835	Mazielka. Sequence: 1-----
16147	X06b	18-9	1400	Mazielka. Sequence: 1-----



XPA

10359/11559/13559 kHz, 02-09, 0600/0620/0640 UTC

355 355 355 000
09003 00001 00000 10140

10359/11559/13559 kHz, 05-09, 0600/0620/0640 UTC

355 355 355 000
03964 00001 00000 10140

11576/10476/9276 kHz, 17-09, 1900/1920/1940 UTC

542 542 542 000
04991 00001 00000 10140

11576/10476/9276 kHz, 29-09, 1900/1920/1940 UTC

542 542 542 000
07833 00001 00000 10140

11576/10476/9276 kHz, 03-09, 1900/1920/1940 UTC

542 542 542 1

08587 00319 30852 69658 79531 12515 42463 84330 96149 00279
45678 72507 05166 81326 48477 81463 12901 92140 70916 78930
05579 52908 57049 07187 79816 01055 63510 46016 59383 97736
26191 13131 64375 00907 72146 64453 66803 54677 32062 45108
65085 99962 74347 70799 57363 77480 50235 89162 79960 44430
57946 57154 33325 25615 33743 52830 52880 19744 41626 44706
71100 90677 53284 12651 57309 49950 52202 58980 38079 65521
15744 66493 59819 00690 07397 77189 82795 26101 25108 73512
65244 40261 36637 96265 77728 18351 59563 02335 27214 51658
83814 45317 54310 96754 54659 33311 42123 32954 51820 16096
52026 74788 31176 59656 70612 70937 06106 44955 12038 70234
78326 55619 23967 65431 53677 62847 26035 30801 62887 40375
50722 82923 62538 65533 92338 33390 32146 14537 39763 50868
43971 77645 65529 90929 00064 55194 42136 32945 90064 71668
29152 59559 34228 79118 18229 96518 06653 61964 67548 32418
07677 95864 68244 19532 84102 61039 31641 10622 29007 48499
53122 44414 47713 58507 91750 61668 34666 60087 48917 02806
31137 69456 16599 97200 05603 58714 04787 23893 34002 60045
86205 17837 39760 77126 79467 61612 47794 25126 00614 20688
40097 95731 02763 10992 94591 05503 05642 87897 24040 40272
60935 89217 13836 66905 85501 90892 40490 46217 26243 14518
23093 66493 12266 53847 74759 73078 20290 79397 63166 45535
13095 01732 87792 19977 77355 63437 29748 36399 45177 45464
12305 70444 74472 31270 40581 09107 03507 02839 76564 40765
71706 51877 07502 51396 76622 58398 79209 85413 61009 32721
98402 01202 47877 20672 48120 77247 24608 31349 38987 43009
98689 39049 41559 30838 03380 18023 02026 78650 43440 24760
15409 58611 37408 82966 14134 60261 19864 39448 59471 63994
36734 00781 92171 51600 70683 84098 78208 89009 36281 24484
63286 61220 11472 96911 37447 52770 74972 31736 27149 83388
85278 91551 02830 94572 29402 21109 09555 51895 74179 95107
36601 83791 16178 76827 64244 84907 30824 56181 45227 47571
85357 76540

11576/10476/9276 kHz, 10-09, 1900/1920/1940 UTC

542 542 542 1

02815 00169 40076 79098 32699 81722 09543 08149 76699 23502
35220 24784 86168 79753 24825 38344 25522 82031 32249 57838
40863 80430 80621 94422 73165 14941 55261 60208 11304 05875
66890 59760 13982 77670 64891 82552 90752 72459 82502 23903
01513 63482 95290 77585 19408 83500 31371 24827 75038 80866
47761 61113 97839 96694 80131 05824 93417 26326 71102 13026
09077 78968 83762 44167 75500 11530 95361 29084 00247 97892
91509 63741 77685 22800 18976 44526 92111 16077 88231 67295
00452 81367 86024 51484 25383 03855 80533 61670 05122 31840
43258 96950 34439 66691 75788 57283 69335 52432 06924 50747
99223 79977 47153 08364 33535 21388 50156 86084 65610 87991
95215 43745 12240 33323 23278 14596 27783 05264 04257 53541
59409 98777 28240 91204 75460 57266 03584 92858 27319 23513
31873 01188 04845 19415 08684 39129 34771 69696 07391 49289
77154 99582 17094 35153 58108 02740 55613 60069 69600 70786
43700 33548 61175 15686 53577 10849 72109 63724 53052 58020
14713 68764 49890 12880 85063 97742 74384 98850 85737 46059
60972 70737

10359/11559/13559 kHz, 30-09, 0600/0620/0640 UTC

355 355 355 1
03050 00229 13340 97102 73241 55185 62732 73811 32906 64947
72662 25518 78843 21758 90223 66959 70040 27996 65411 89514
21524 71974 01016 38955 05461 98095 94719 87712 05640 18980
77405 81125 59211 66812 54490 94209 42457 11843 77319 07115
79029 99048 13307 32802 04399 50038 98872 79541 00056 11365
62307 74464 20851 15871 56086 38838 65405 10557 04450 28503
16866 15626 41948 55034 18172 68792 91871 28313 08664 53548
45555 70441 88529 59208 37680 26416 74886 96469 08135 80735
21202 58159 86403 71309 82815 47109 55235 66496 87536 96656
84115 67721 11225 63032 98905 43494 79989 65779 15412 40057
53326 36966 57152 59617 27413 38462 95055 62953 44696 99821
07608 69013 18056 63415 36489 35114 34418 52400 75835 07488
63890 59398 54925 36834 80065 19521 83615 28479 49582 47837
60091 42966 72706 80609 09818 26620 26583 26594 22784 68473
51766 92867 08382 41613 83248 59263 70566 77337 33256 29712
47008 09805 73088 67030 38821 09083 53718 52173 49986 62023
87693 89060 76392 15037 44318 78315 45425 42597 20882 04065
77486 03944 02942 82447 77163 01345 81738 25922 79118 34891
98538 57182 57908 04387 94405 99795 38884 81133 60406 71580
47524 81504 07588 13578 77041 86905 34798 47537 64926 62085
64852 54141 69166 77165 11948 99328 08927 63356 69705 44250
04481 31306 79401 64119 84041 80596 21868 47879 20934 36361
13462 33068 63160 17545 83634 38172 36315 84412 17956 87419
67202 27704



XPA2

14538/13538/12138 kHz, 01-09, 1800/1820/1840 UTC

01464 00001 00000 10140

16147/14947/14447 kHz, 04-09, 1500/1520/1540 UTC

03631 00001 00000 10140

16167/14663/13923 kHz, 04-09, 1900/1920/1940 UTC

03830 00001 00000 10140

16147/14947/14447 kHz, 13-09, 1500/1520/1540 UTC

06149 00149 00491 89646 97904 20088 49425 11567 54771 16339
88643 59898 11122 03295 47479 57010 53261 68427 48609 40162
18100 28166 46946 15144 69101 88244 52604 86899 40952 27460
48339 13770 87630 94551 42210 96777 83911 15195 88101 17110
08357 34480 03277 96172 12226 93665 08523 73762 85544 14162
81780 63048 39870 30892 45028 87891 13609 15870 88924 64246
97055 24416 62651 07202 25881 21381 88268 16627 97355 29126
56310 22510 74337 07035 17267 95750 00238 45166 29416 44383
56177 71163 09149 50023 43385 41910 25268 73714 51520 80204
62274 72870 69242 27157 54753 25223 36338 47662 46449 94628
02150 40901 11709 93188 79960 19539 80123 09261 86873 32242
29694 64392 27446 27633 11335 41740 91220 87108 86819 69662
04490 79300 10118 05471 20517 99001 68857 35219 69184 04694
38356 24539 29216 98089 69544 81153 87033 51290 61530 50862
72917 09163 96682 30748 96627 11810 39261 08197 45704 11209
00147 34431

14538/13538/12138 kHz, 13-09, 1800/1820/1840 UTC

02062 00079 71299 88250 74210 93114 64274 29814 09327 51011
31833 24580 44657 22766 94805 37213 45895 67336 92083 25824
11930 04315 51615 04751 32694 10967 53070 17191 94464 59742
80781 36572 20112 33696 11759 57316 69354 43828 25277 94768
19207 22265 87516 29385 49986 01468 32810 56306 39196 83679
92942 42498 50650 47796 78789 20152 64380 85263 05829 80252
45746 10496 01714 85489 13786 93354 57188 92153 82265 97140
45126 33522 23770 27991 51740 62615 23746 99067 05111 57700
61009 45157

14538/13538/12138 kHz, 22-09, 1800/1820/1840 UTC

08053 00091 90355 73499 16625 47337 04247 02179 54261 44834
17999 80186 68805 54674 01381 21659 04071 43828 05251 61620
16294 66464 91592 47208 96719 33096 31137 65479 67737 35185
32564 17423 41321 70388 48490 17749 25002 52314 70619 90674
45087 36845 97577 29310 58677 69086 36651 34811 39447 05250
21513 82906 07200 78536 59897 65935 07466 70538 60761 75183
46717 52161 03531 57125 19250 61070 12224 18932 34308 87457
32007 42659 30827 27899 20540 12970 27189 16061 66079 53708
74008 54359 11356 44355 68429 46089 87191 72862 00126 00030
15558 37984 74622 33267

17429 kHz, 29-09, 0700 UTC

09057 00001 00000 10140

14538/13538/12138 kHz, 29-09, 1800/1820/1840 UTC

04826 00001 00000 10140



Polish FSK
(E11 family)

14753 kHz, 01-09/03-09, 0730/0735 UTC

0433 0433 0433 0433 0433
88888 88888 35714 44122 72142 79326 00951 99403 03358 62605
81428 13304 26213 45043 53535 39365 94083 93358 22726 76258
32192 56121 57437 53240 58379 39550 64999 75222 62365 96569
44031 99459 02984 64946 61483 54559 13063 88888 88888
00039 00039

7371 kHz, 01-09/04-09, 0900/0905 UTC

0554 0554 0554 0554 0554
88888 88888 35587 16128 29811 46901 41710 08918 86503 58236
15462 73026 82581 65912 07652 33385 31217 23389 23724 55149
79926 64341 68316 09257 95511 66011 18542 51908 52634 87253
35274 92532 88888 88888
00034 00034

8803 kHz, 06-09, 1305/1310 UTC

0437 0437 0437 0437 0437
88888 88888 86420 90234 82717 56967 25157 03350 52875 31023
09900 03858 79489 52728 92819 65062 62427 06168 04853 38317
10025 20217 58036 78079 56839 07842 24112 85447 20287 79096
51060 50615 19840 62601 90034 02605 67407 01536 88888 88888
00040 00040

9330 kHz, 28-09/30-09, 0845/0850 UTC

0353 0353 0353 0353 0353

88888 88888 57209 52135 22631 54834 86055 24038 89809 78364

49990 07613 59382 26267 16149 64006 19266 90181 35465 54939

36289 31816 18141 93923 29012 24639 05831 91542 66063 32586

88575 53317 50660 69037 23405 23567 11555 88888 88888

00039 00039



Egyptian diplomatic stations

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

7730 kHz, 13-9, 2051 UTC, Codan chirp 99907 MFA Cairo clg 99908



Sudanese diplomatic stations

21000.0 kHz, 31-8, 1405 UTC, USB

MFA Khartoum, voice traffic to embassy Yemen

21002.2 kHz, 31-8, 1410 UTC, Pactor I

MFA Khartoum, msg to embassy Yemen



Czech diplo

6842 kHz, 16-9, 1018 UTC, Pactor III

MFA Prague =ZPRAGA01 O=ZSMZV

UTILITY ROUND-UP



Unid stations

6970 kHz, 12-09, 1630 UTC

SH49: unid station 4LGs using -....- seperator ending DE SH49 SH49

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by JPL, Ary, Peter, Wolfgang, André, Chris, and Tony.



RMv/RNv/RNAv/RAv Russian military stations

Frequency: various Mode: USB / voice

Russian military (RMv)

4572 kHz, 27-09, 0611 UTC
4484.5 kHz, 29-09, 0441 UTC

Russian military: HUMAN58 ckg out stations
Russian mil. KASET29 wkg out stations

Russian Navy (RNv)

5079.5 kHz, 27-09, 0458 UTC
13125 kHz, 27-09, 1445 UTC

Russian Navy Sevastopol: GVODZIKA (RCV) in QSO with BARONIK (RGZ59)
GVOZDIKA : Russian Navy Sevastopol in QSO with YASIK (RHM80)

Russian Air Force (RAv)

11360 kHz, 27-09

1535 UTC Korsar (Russian Air Force 6985th Aviation Base Pskov) USB w/76767 (IL-76MD) reporting departure from ?Arok (unid)? at 1830 MSK
1537 UTC Korsar w/76553 (IL-76MD) reporting 2 hrs into flt w/55 tons fuel & "ops normal".
1601 UTC Korsar w/52488 (Russian AF AN-26) reporting 2 hrs into flt w/3 tons fuel and ETA Kadrille (Russian AB Ryazan) 1945 MSK. At 1646Z 52488 reporting landing at Kadrille at 1905 MSK w/9,500 kgs fuel.
1608 UTC Korsar w/76738 (IL-76MD) reporting departure from Taimyr (Russian AB Ryazan) at 1753 MSK w/35 tons fuel and ETA Alma (unid) 2000 MSK
1610 UTC Korsar w/82039 (Russian AF AN-124) w/encoded msg: 627 092 585 165 573 0003 600 771 444. Prob enroute to/from Syria as part of Russian airlift.
1613 UTC 76779 (IL-76MD) USB calling Korsar w/no response. Unheard stn responds and 76779 asks him to relay to Korsar that he has 44 tons of fuel remaining
1622 UTC Korsar USB w/78810 (IL-76MD) reporting departure from Raspiska (Russian AB Mozdok) at 1910 MSK w/58 tons fuel and next is undisclosed waypoint. At 1624Z 78810 calling Proselok (Russian Air Force 566th Military Transport Aviation Regiment, Bryansk) w/no response so checks comms w/Korsar who reads him 3/3.
1641 UTC 76650 (IL-76MD) USB calling Korsar reporting departure from (missed) at 1840 MSK w/50 tons fuel and ETA Raspiska 2200 MSK

6685 kHz, 29-09

1843 UTC 82038 (Russian AF AN-124) USB calling Korsar w/no response. Then xmits in blind that he departed Kedr (Russian AB, Bryansk) at 1820 UTC w/138 tons fuel and next is Raspiska. At 1927Z calls Korsar w/no response.
1906 UTC 78810 (IL-76MD) USB calling Korsar and Davlenie w/no response. At 2017Z Korsar USB w/78810 (IL-76MD) reporting landing at Raspiska at 2309 MSK.
1928 UTC Korsar USB w/76669 (IL-76MD) reporting 3 hrs into flt w/32 tons fuel. At 2016Z /76669 (IL-76MD) reporting 4 hrs into flt w/25 tons fuel.
1929 UTC Korsar USB w/82039 (Russian AF AN-124) passing encoded msg 941/738/981/996/032/536/255/354/007/277. At 2030Z passes msg: 286/703/369/168/165/097/807/277/622/102.
1941 UTC 76767 (IL-76MD) USB calling Korsar w/no response.
2012 UTC Korsar USB w/76722 (IL-76MD) reporting departure from (missed) at 2237 MSK w/36 tons fuel next is Chkalovskij.
2014 UTC Korsar USB w/78794 (IL-76MD--not heard) reporting departure from Sochi at 2221 MSK w/56 tons fuel.
2015 UTC Korsar USB w/76779 (IL-76MD) reporting 2 hrs into flt w/33 tons fuel.
2217 UTC 82041 (Russian AF AN-124) USB calling Korsar w/no response.

11360 kHz, 29-09

- 1053 UTC 78816 (IL-76MD) USB calling Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov) & Proselok (Russian Air Force 566th Air Transport Regiment, Bryansk) w/no response.
- 1216 UTC Klarnetist (Russian Air Force 12th Air Transport Division, 6955th Air Base, Migalovo/Tver) USB w/78794 (IL-76MD) reporting departure from Raspiska (Russian AB Mozdok) at 1411 MSK and ETA crossing border at 1503 MSK. Part of Syrian airlift.
- 1238 UTC Klarnetist USB w/78778 (IL-76MD--not heard) reporting 1 hr into flight w/42 tons fuel. At 1501Z reports to Korsar they have landed at Raspiska at 1501 UTC w/21 tons fuel.
- 1401 UTC Korsar USB w/76769 (IL-76MD) reporting 4 hrs into flt w/20 tons fuel.
- 1423 UTC Korsar USB w/78797 (IL-76MD) reporting landing at Raspiska at 1721 MSK.
- 1428 UTC Korsar USB w/82040 (Russian AF AN-124---not heard) reporting 1 hr into flt w/54 tons fuel. Korsar can't understand departure location--tries several times for repeats and finally QSL's " as planned."

Observation by Ron (RP-MD) 29-09:

For past couple of days I have been listening (via Web Sdr in Netherlands) to the Russian VTA net.

What I've heard so far indicates to me that the Russians are using their AN-124s to ferry equipment to Syria. I would suspect that these are carrying primarily disassembled helos and fighters.

However there have a large number of IL-76MD flights that I believe are also involved in the airlift. Looks to me like the IL-76s are carrying cargo to the Russian AB at Mozdok where the cargo is transferred to AN-124s for the flights to Syria.

I have noted at least 5 different AN-124s (bort #s 82035, 82038, 82039, 82040 & 82041) as part of the airlift, some making multiple flts over the last 3 days.

There have also been a couple of TU-154s flying to Syria, via Iran. These I believe are carrying personnel to support the airlift (assembling acft & equipment) and provide training on the equipment being delivered.

11360 kHz, 30-09

- 1050 UTC Proselok (Russian Air Force 566th Air Transport Regiment, Bryansk) USB w/82038 (Russian AF AN-124) reporting departure from (too weak) w/120 tons fuel.
- 1052 UTC Proselok USB w/78880 (IL-76MD)
- 1132 UTC Proselok USB w/78813 (IL-76MD) reporting landing at Raspiska (Russian AB Mozdok) at 1430 MSK.
- 1235 UTC Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov) USB w/76779 (IL-76MD) reporting departure from (missed) at 1514 MSK and ETA Pskov 1635 MSK.
- 1236 UTC 82035 (Russian AF AN-124) calling Korsar w/no response.
- 1304 UTC Davlenie (Russian Air Force 708th Air Transport Regiment, 6958th Air Base, Taganrog) USB w/76745 (IL-76MD) reporting landing at (missed) at 1604 MSK.
- 1433 UTC Korsar USB w/82041 (Russian AF AN-124) reporting 1 hr into flt w/81 tons fuel and ETA Raspiska 2116. "Ops normal".
- 1500 UTC Korsar USB w/76772 (IL-76MD--not heard) reporting landing at Rechnoy (Russian AB Shaykovka) at 1757 MSK w/15 tons fuel.
- 1531 UTC 76797 (IL-76MD) USB w/82038 (Russian AF AN-124) advising he will relay info. Then contacts Korsar to relay that 82038 landed (at undisclosed location) at 1511 UTC w/53 tons fuel.
- 1534 UTC Korsar USB w/82041 reporting 2 hrs into flt w/69 tons fuel & "ops normal".
- 1545 UTC Korsar USB w/82035 reporting passing waypoint ITAKA at 1845 MSK.

6685 kHz, 30-09

- 1826 UTC Korsar USB w/78794 (IL-76MD) reporting departure from (missed) at 2058 MSK next is Chkalovskij.
- 1828 UTC Korsar USB w/ 76554 (IL-76MD) reporting departure from Chkalovskij and next is Raspiska.
- 1920 UTC Korsar has trouble hearing 82038 (not heard here) but finally, after several tries, QSL's for some unheard flt info. At 1928Z Korsar contacts 82038 (not heard) and advises him that " they are ready" at Taimir (Russian AB Krimsk).

Russian Naval Air Transport (RNAv)**11354 kHz, 29-09**

- 1104 UTC Priboj (Naval Air Transports Central Sector, Moscow) USB w/51185 (Russian Navy AN-24RV) reporting departure from Ostayevo at 1055 UTC w/5,000 kgs fuel and ETA Ekaterinburg 1440 UTC.
- 1153 UTC Zarechnij/Varechnij (unid) USB w/51182 (Russian Navy AN-24RV) reporting departure from Levashovo at 1130 UTC w/5,000 kgs fuel at FL550 and ETA Khabrovo 1420 UTC.
- 1339 UTC 51182 USB calling Novator (Naval Air Transports Northern Sector, Murmansk) w/no response. Kroket (Naval Air Transports Western Sector, Kaliningrad) & Zarechnij/Varechnij respond and 51182 reports passing TIGNU at 1338Z at alt 4900 meters w/3000 kgs fuel.
- 1345 UTC Zarechnij/Varechnij USB w/85855 (Russian Navy TU-154) reporting departure from Chkalovskij at 1310 UTC w/30

1345 UTC tons fuel (2015/09/29) (RP-MD) and flying at 3700 meters and ETA Novosibirsk 1640 UTC. At 1505Z reports to Zarechnij/Varechnij passing point ?TUMAN? at 1503 UTC at 3500 meters w/24 tons fuel
 Priboj & Krokot USB w/26413 (Russian Navy AN-26) reporting departure from Kacha at 1330 UTC w/5300 kgs fuel and ETA Anapa 1430 UTC. At 1416Z 26413 confirms ETA Anapa at 1430 UTC and requests flt info be relayed to Krokot.



M32
Russian / CIS Military CW Stations

6958 kHz, 02-09, 1331-1336 UTC

VVV ITLT ITLT ITLT DE J63Q J63Q K
 VVV ITLT ITLT ITLT DE L9SS L9SS K
 ITLT DE PRTP K
 ITLT DE J8KU K
 ITLT DE 9HKN K

3302 kHz, 07-09, 1604 UTC

VVV EEEEE
 16GA K
 CV90 DE HF8T K
 V HF8T DE CV90 K
 R K
 4VW5 K
 R K
 D.4B K
 R K
 XTD3 K
 R K
 SUFV K
 RPT K
 SUFV K
 R K
 KLXD K
 R K
 3NW4 K
 R K
 YF3B DE HF8T K
 HF8T DE YF3B K
 R K
 BGVR K
 R K

16112 kHz, 04-09

1444 UTC BEE 50/200 traffic into CW: RDL RDL RDL 73618 77594 73618 77594 73618
 77594 K
 1445 UTC RDL RDL RDL 05666 39401 05666 39401 05666 39401 K
 1539 UTC BEE 50/200 traffic into CW: RDL RDL RDL T8T68 T2T82 T8T68 T2T82 T8T68
 T2T82 K

10112 kHz, 06-09, 1350 UTC

23456 56473 45576 87786 36455 67789 34567 67789 78695 78054
 79807 56473 90854 78695 36455 65876 57684 34567 00876 46372
 78054 00708 12346 90854 67840 86950 05030 =
 975 QXS AR
 WK7O DE JW9B K

8747 kHz, 08-09, 1210 UTC

MRMW DE 7EAZ R 150 ? K
 WJV8 DE 7EAZ R 150 ? K
 WJV8 R 150 K
 WJV8 DE 7EAZ R 150 ? K
 WJV8 R 150 K
 VVV VVV VVV AR
 VVV =

4471 kHz, 30-09, 1815 UTC
 7963 kHz, 30-09, 1815 UTC
 9347 kHz, 30-09, 0918 UTC

XXX WEGI 05013 AEROM 1183 6905 //7963 kHz
 XXX WEGI 05013 AEROM 1183 6905 //4471 kHz
 XXX RGT77 23725 14486 ABOD 2308 1175 K



M32a
 Russian Navy
Voyenno-Morskoy Flot Rossii

Tony discovered the names of various vessels:

RCIG SB-36 - Goryn Salvage Tug
 RHM80 Yauza - Project 550 Large Ice Cargo and Passenger ship
 RJP92 Vizir - Project 862 Yug Class Survey/Research Ship
 RMGZ Epron - Project 527 Prut Class Submarine Rescue Ship

More vessels:

RMCW Donuzlav
RFH70 DG Smetlivyj (810)

6956 kHz, 09-09, 0506 UTC

RMW46: Russian navy Netcontrol clg RGR90, RGR91, RFH46, RGR93, RGR95 and RGR96 for ZSA

8345 kHz, 18-09, 1909 UTC

RIT RIT RIT DE RHM80 RHM80 QSA? QTC K
RHM80 25614 14 2141 256 = FOR RJH74 =
14181 99592 10034 41496 81414 10150 49960 5702170322 87611 22243 0///// 14012 =
AR RHM80 K

12464 KHZ, 23-09

RFH77 48033 NAJTOWYJ 8531 3103 K
RFH70 48033 NAJTOWYJ 8531 3103 K
RFH77 48033 NAJTOWYJ 8531 3103 K
RCIG 48033 NAJTOWYJ 8531 3103 K
RCIG 13964 WARETOK 8276 2637 K
RFH77 13964 WARETOK 8276 2637 K
RFH70 13964 WARETOK 8276 2637 K
RMCW 13964 WARETOK 8276 2637 K

12464 kHz, 28-09, 0603 UTC

RCV DE RMCW 458 33 28 0856 458 = SML FOR RJE73 RJH45 = KKXXX 28095 0600X
13527 03551 88871
20000 32873 43895 15471
20010 32871 43897 15472
20020 32871 43898 15474
20026 32849 43904 15471
20030 32493 43820
20033 32449 43834 15373
28029 = + RMCW K

12464 kHz, 28-09, 0604 UTC

RMCW 256 18 28 0902 256 =
SML FOR RJE73 RJH45 =
28061 99354 10358 42697 31304 10258 40138 52007 81130 22200
00388 20201 88000 80000 28014 = + RMCW K

8345 kHz, 05-09, 2008 UTC

RJP92 149 24 5 2301 149 = FOR RJH45 RJH74 =
JJXX 05015 1950/ 17301 04658 88888
00076 10076 20076 30076 50047 75046
99901 00030 50020
99902 00011
99903 00004
66666 10312
05021 = + RJP92
[BATHY report from 73.01N 46.58E binged.it/1JNaERl]

8345 kHz, 07-09

1810 UTC VVV RIT DE RBES QSA? QTC
1811 UTC RBES 531 60 7 2100 531 = RKT FOR RIT RIW RMP =
11111 75223 04370 49684 12441 64314 87942 06127 37484 41997
27336 56557 67053 25845 25729 17927 48572 24146 59848 98965
58871 50227 20876 67093 94280 32779 72901 92004 26558 50055
72928 86381 20858 50778 16568 36158 85135 43168 36903 43140
28680 96322 82991 20227 45983 19514 95725 61938 77757 00212
31185 07671 58081 05942 99141 07055 = + RBES

8345 kHz, 10-09

1807 UTC VVV RCV DE RMJA QSA? QTC
1809 UTC RMJA OK QRV
1811 UTC VVV RMP DE RBES QSA? QTC
1813 UTC VVV RMP DE RBES QSA? QTC
1814 UTC RBES 119 41 10 2107 119 = SML FOR RMP RIW =
11111 00963 10082 68667 92546 26458 56081 20819 37843 04814
31902 23110 68041 31305 63557 36178 10096 77961 75957 76889
59595 44903 68424 85633 55608 86376 00096 02966 56435 00021
98137 29582 41484 74408 85759 03136 09745 10037 = + RBES

8345 kHz, 12-09

1806 UTC VVV RCV DE RMJA QSA? QTC
1807 UTC RMJA 615 16 12 2101 615 =
SML FOR RJH45 RJE73 =
12181 99354 10352 22232
(35.4N 35.2E heading SE @ 6-10kts goo.gl/maps/EjIAR)
1844 UTC VVV RCV DE RMGZ QSA? QTC
2023 UTC VVV RIW DE RMRV QSA?
2111 UTC RIT DE RHM80 QTC
2113 UTC RHM80 474 144 13 0003 474 = FOR RIW RMSZ =
11111 42107 88506 12876 98005 38825 96671 58461 21220 79228
36698 33631 13755 84672 25876 80700 33609 22825 60704 52835
71698 27423 08091 95346 36489 92858 52530 07796 10780 27967
05222 57888 14424 81224 31021 97934 64471 85310 31196 17707
21629 60923 15372 61198 24869 25708 13274 87056 03941 30979
89087 71400 92050 64991 89805 24901 45393 09509 52369 96482
37681 08868 53088 71671 99626 63100 08865 89860 91445 82144
01174 78410 87976 83226 55358 60743 31900 08634 50342 31206
77289 46939 91330 74905 72085 78871 11250 62172 31550 05030
30612 10216 34674 17887 75868 48977 57367 51219 89342 34192
53407 30772 52243 90811 96156 54525 15151 66964 34618 17651
94741 69160 74765 22402 34200 43055 48323 73931 28612 32746
44916 37925 04858 61083 82669 23121 65225 49253 79676 15826
22944 69977 64793 07263 24773 52785 29546 05262 74816 50970
82480 12141 = + RHM80

8345 kHz, 13-09

1206 UTC VVV RIT DE RHM80 QSA? QTC
1207 UTC RHM80 219 15 13 1507 219 =
FOR RJH74 =
13121 99650 10046 22253
(65.0N 04.6E heading SW @ 11-15kts goo.gl/maps/QzUWw)
1513 UTC VVV RIT DE RHM80 QSA? QTC
1516 UTC RHM80 268 48 13 1807 268 = FOR RIW RMSZ =
11111 19170 43958 94210 72436 55712 21834 36911 68108 81823
48711 74662 66671 61997 33700 45714 56076 63277 44436 52917
95463 36953 37232 97891 22963 55489 65720 12431 48195 65760
60465 73879 07496 87923 9??67 13042 70574 50311 23337 50713
946?2 00487 72932 57059 88946 74750 13046 = + RHM80
1840 UTC VVV RIT DE RHM80 QSA? QTC

4039 kHz, 28-09, 1711 UTC XXX RLO WETER 3 PO RAJONU 73 OTMENASTSA K
4973 kHz, 30-09, 1700 UTC XXX RLO BUM 48 III 5 = 49 III 0 OTMENAETSA K



M32b
Russian Naval Aviation
Aviatsiya Voennno-morskogo Flota Rossii

7980 kHz, 06-09, 1601 USB

RJC48 DE RJF94 QSA ? K

RJF94 DE RJC48 QSA 3 K

RJF94 R K

RCH84 DE RJC48 QSA ? K

RJF94 DE RCH84 QSA 3 K

RJF94 R K



M32c
Russian Air Force
Voyenno-vozdushnyye sily Rossii

7117 kHz, 02-09, 1900 UTC, FSK 100/1000

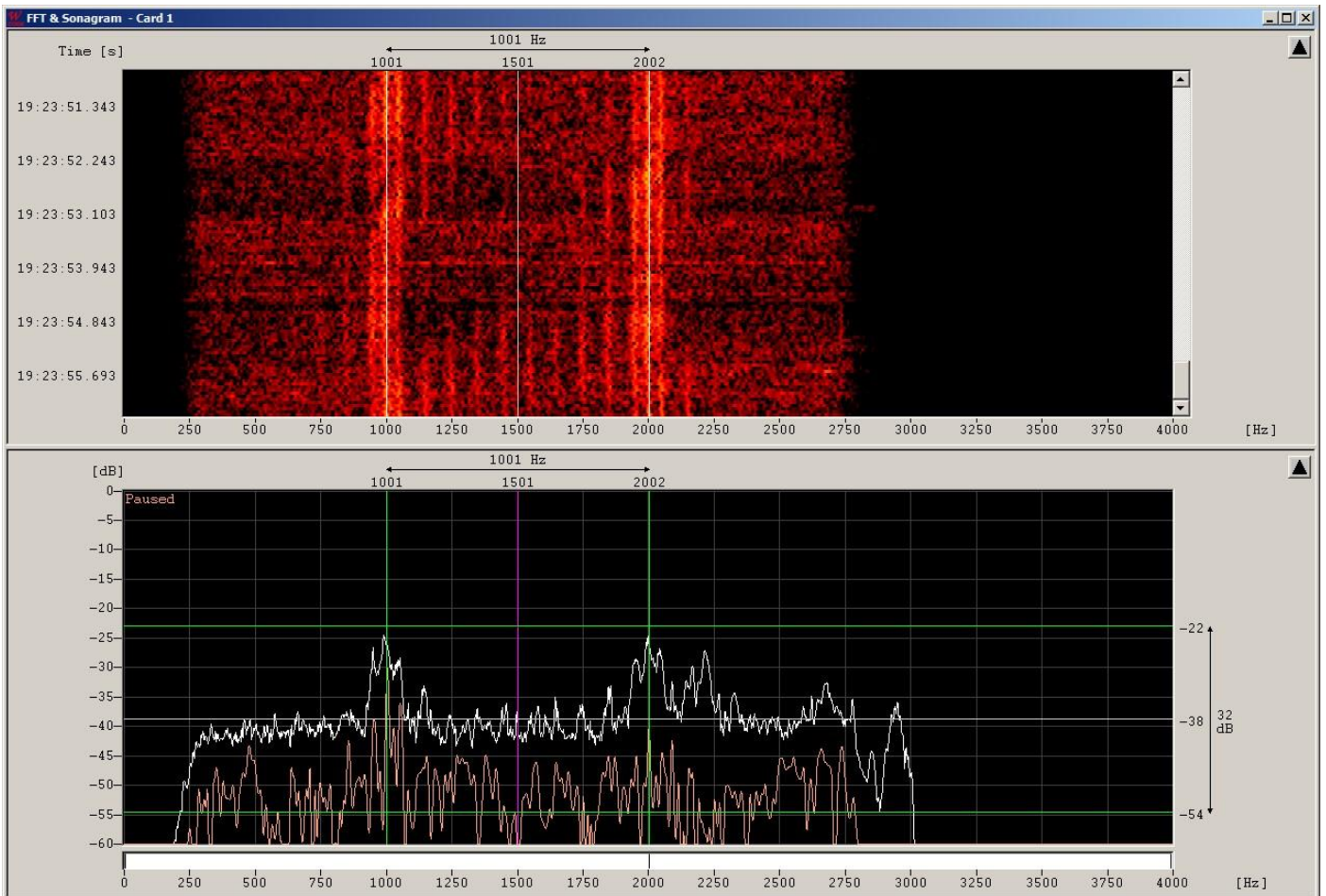
7117 kHz, 07-09, 2340 UTC, CW

4521 kHz, 29-09, 1542 UTC, CW

REA4: Russian Air Force, Moscow (Screenshot by DK2OM)

99900 0 616 0 200 6997430 80502 10123 20118 76166 = REA4 K

REA4 = 29140 99900 28150 27627 41997 01603 10248 20196 79700 = REA4 K



Below two pictures of the original radio transmission schedule and decrypting manual as used by a BND intelligence agent operating in Poland during cold war. This was intercepted by Polish counterintelligence and recently declassified. Thanks for mailing them to us !!!

Rufnummern

	Uhrzeit		Frequenz	
	Winter	Sommer	MHz	Meter
Dienstag	2000 - 2100	2100 - 2200	3,4	89
	2200 - 2300	2300 - 2400	4	75
Freitag	2100 - 2200	2200 - 2300	4	75
	2300 - 2400	0000 - 0100	3,4	89
Sonntag	2100 - 2200	2200 - 2300	3,4	89

Dann Du aus der Spalte "Sommer" ablesen mußt, richtet sich danach, für welchen Zeitraum in Polen in jedem Jahr Sommerzeit eingeführt wird.

1) Zu den in dem Programm angegebenen Zeiten kannst Du über Radio angesprochen werden. Du mußt zu Beginn der angegebenen Stunden deinen Empfänger auf die zugehörige Frequenz einstellen und wirst dann in den ersten 5 Minuten das Pausenzeichen (Dreiklang) hören. Danach beginnt die Durchsage der Kennwörter und die Aufzählung der Rufnummern, für die an diesem Abend etwas vorliegt. Ist Deine Rufnummer nicht dabei, so kannst Du für diesen Abend abschalten. Sollte aber Deine Rufnummer aufgezählt werden, so liegt für Dich etwas vor und Dein Spruch wird Dir durchgehört, nachdem die vor Dir aufgezählten Rufnummern abgefertigt worden sind. Unter jeder Rufnummer wird gleich die Gruppenzahl angehängt, die Du bekommst; wenn Du diese Gruppenzahlen, die vor Dir abgelesen werden, addierst und durch 8 teilst, hast Du die Zeit in Minuten, bis Deine Durchsage beginnt. Zum Beispiel:

"Guten Abend, hier ist der Rundspruchdienst. Kennwörter: Sfeu-Sfeu, Lampe-Lampe usw. (diese sind für dich ohne Bedeutung)

Es liegen Mitteilungen vor für: 448-448 siebzehn-eins sieben Gruppen, 205-205 einundvierzig-vier eins Gruppen, 620-620 neunundzwanzig-zwei neun Gruppen, 626-626 dreiundfünfzig-fünf drei Gruppen, usw."

Als erster erhält also	448	17	Gruppen
" zweiter "	"	205	41 "
" dritter "	"	620	29 "

vor Dir also 87 Gruppen : 8 = 10,8
d.h. Dein Spruch beginnt in 10 Minuten.

- 2) Nach jeder Aufnahme kontrolliere sofort die Gruppenzahl !
- 3) Die 1. Gruppe ist die Einsatzgruppe, die Du in Deinen Entschlüsselungsunterlagen, 3 Röllchen, beginnend mit Röllchen 1, suchen mußt.
- 4) Schreibe nun die Gruppen aus den Schlüsselunterlagen beginnend mit der Einsatzgruppe, über Deine aufgenommenen Gruppen und subtrahiere, ohne die Zahner zu berücksichtigen.
- 5) Das Ergebnis setze nach der unten stehenden Tabelle in Klartext um. Dabei mußt Du beachten:

Sigennamen und Abkürzungen sind in "56" + "y" eingeschlossen und werden doppelt gesetzt.

Beispiel: LUBLIN = $\begin{matrix} 56475 & 24047 & 23564 & 75240 & 47235 & 6 \\ y l & u b l & l n y & l u b & l i a y \end{matrix}$

Zahlen sind in "56" + "y" eingeschlossen und jede einzelne Ziffer dreimal gesetzt.

Beispiel: 17.3. = $\begin{matrix} 56111 & 77756 & 33356 \\ y 1 & 7 y & 3 y \end{matrix}$

(bei Daten entfällt der Punkt hinter 17 und 3)

- 6) Spruchbeispiel wie dein 1. Spruch von uns beginnen wird:

Schlüsselgruppen aus 1. Röllchen	42087	45533	69291	68924	97320	61986
Aufgenommene Grupp.	42087	99422	13711	56611	57409	29452
Ergebnis nach Abziehen	00000	56111	56580	12313	40921	42534
Klartext	y 1 y . d einen brie f v					

Spruchnumerierung: Jeder Spruch fängt mit einer Zahl an das ist die Spruchnummer. Nummer 1 bis Nr. 9 dann fängt es wieder mit Nr. 1 an.

	0	1	2	3	4	5	6	7	8	9
	d	e	i	n			s	t	a	r
4	b	c	f	g	h	j	k	l	m	o
5	p	q	u	v	w	x	y	z	.	'

LOGS SECTION

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
---	12-9	1630	Sat	6970	SH49: unid station 4LGs using ----- separator ending DE SH49 SH49	CW	(PPA)
CZE	16-9	1018	Wed	6842	MFA Prague =ZPRAGA01 O=ZSMZV	Pactor-III	(KK2)
E06	3-9	2030	Thu	5186	891 613 20 14259 22676 32782 32782 76723 ...	USB	(MPJ)
E06	3-9	2030	Thu	5186	891 613 20 14529	USB	(HFD)
E06	4-9	0500	Fri	14370	354 726 103 65258	USB	(HFD)
E06	4-9	0600	Fri	16265	354	USB	(HFD)
E06	18-9	2130	Fri	5197	634 728 30 14259	USB	(HFD)
E07	2-9	0600	Wed	9064	024 024 024 000	USB	(AB)
E07	2-9	0620	Wed	10264	024 024 024 000	USB	(AB)
E07	2-9	1700	Wed	13527	526 526 526 000	AM	(AB/MPJ/HFD)
E07	2-9	1720	Wed	12227	526 526 526 000	AM	(AB/MPJ/HFD)
E07	2-9	1900	Wed	12108	172 1 826 36 73972 05474 88375 47097 65578 ... 16066 97657 59971 82383 25779 000 000	AM	(MPJ/HFD)
E07	2-9	1920	Wed	10708	172 1 826 36 73972 05474 88375 47097 65578 ... 16066 97657 59971 82383 25779 000 000	AM	(MPJ/HFD)
E07	2-9	1940	Wed	9208	172 1 826 36 73972 05474 88375 47097 65578 ... 16066 97657 59971 82383 25779 000 000	AM	(HFD)
E07	3-9	2010	Thu	9387	358 358 358 000	AM	(HFD)
E07	3-9	2030	Thu	7526	358 358 358 000	USB	(MPJ/HFD)
E07	4-9	0600	Fri	9064	024 024 024 000	USB	(AB)
E07	4-9	0620	Fri	10264	024 024 024 000	USB	(AB)
E07	6-9	1700	Sun	13527	526 526 526 000	AM	(Sch)
E07	7-9	1900	Mon	12108	172 1 826 36 73972 05474 88375 ... 59971 82383 21777 000 000	AM	(AB)
E07	7-9	1920	Mon	10708	172 1 826 36 73972 05474 88375 ... 59971 82383 21777 000 000	AM	(AB/GHn)
E07	7-9	1940	Mon	9208	172 1 826 36 73972 05474 88375 ... 59971 82383 21777 000 000	AM	(AB)
E07	13-9	1720	Sun	12227	526 526 526 000	AM	(AB)
E07	14-9	1920	Mon	10708	172 1 691 89 56409 10406 68824 ... 73916 36396 88602 000 000	AM	(AB)
E07	14-9	1940	Mon	9208	172 1 691 89 56409 10406 68824 ... 73916 36396 88602 000 000	AM	(AB)
E07	16-9	1900	Wed	12108	526 1 715 118 69442 80117 57447 ... 09708 58701 17604 000 000	AM	(AB)
E07	16-9	1920	Wed	10708	526 1 715 118 69442 80117 57447 ... 09708 58701 17604 000 000	AM	(AB)
E07	16-9	1940	Wed	9208	526 1 715 118 69442 80117 57447 ... 09708 58701 17604 000 000	AM	(AB)
E07	23-9	0600	Wed	9064	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	AM	(AB/HFD)
E07	23-9	0620	Wed	10264	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	AM	(AB/HFD)
E07	23-9	0640	Wed	11464	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	AM	(AB/HFD)
E07	23-9	1700	Wed	13527	526 1 536 66 88586 11395 02960 ... 19642 66929 46757 000 000	AM	(AB)
E07	23-9	1720	Wed	12227	526 1 536 66 88586 11395 02960 ... 19642 66929 46757 000 000	AM	(AB)
E07	23-9	1740	Wed	10627	526 1 536 66 88586 11395 02960 ... 19642 66929 46757 000 000	AM	(AB)
E07	26-9	0600	Sat	9064	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	AM	(AB)
E07	26-9	0620	Sat	10264	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	AM	(AB)
E07	26-9	0640	Sat	11464	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	AM	(AB)
E07	28-9	1900	Mon	12108	172 1 445 57 60797 55561 62076 60157 72368 ... 70871 88935 92078 97349 03050 000 000	AM	(MPJ)
E07	28-9	1920	Mon	10708	172 1 445 57 60797 55561 62076 60157 72368 ... 70871 88935 92078 97349 03050 000 000	AM	(MPJ)
E07	28-9	1940	Mon	9208	172 1 445 57 60797 55561 62076 60157 72368 ... 70871 88935 92078 97349 03050 000 000	AM	(MPJ)
E07	30-9	0600	Wed	9064	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	USB	(AB)
E07	30-9	0620	Wed	10264	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	USB	(AB)
E07	30-9	0640	Wed	11464	024 1 452 77 11564 21284 98191 ... 01745 58630 86728 000 000	USB	(AB)
E07	30-9	1700	Wed	13527	526 526 526 000	AM	(AB)
E07	30-9	1720	Wed	12227	526 526 526 000	AM	(AB)
E07	30-9	1900	Wed	12108	172 1 445 57 60797 55561 62076 ... 92078 97349 03050 000 000	AM	(MPJ)
E07	30-9	1920	Wed	10708	172 1 445 57 60797 55561 62076 ... 92078 97349 03050 000 000	AM	(MPJ)
E07	30-9	1940	Wed	9208	172 1 445 57 60797 55561 62076 ... 92078 97349 03050 000 000	AM	(MPJ)
E07a	2-9	2000	Wed	8144	197 1 39299 7441 77 72395 82788 34250 ... 74563 97259 33102 000 000	USB	(GHn/HFD)
E07a	2-9	2020	Wed	6944	197 1 39299 7441 77 72395 82788 34250 ... 74563 97259 33102 000 000	USB	(AB/HFD)
E07a	2-9	2040	Wed	5474	197 1 39299 7441 77 72395 82788 34250 ... 74563 97259 33102 000 000	USB	(AB/HFD)
E07a	3-9	0430	Thu	6788	741 1 35299 7441 77 72395	USB	(HFD)
E07a	3-9	0450	Thu	7488	741 1 39299	USB	(HFD)
E07a	3-9	0510	Thu	8188	741 1 39299	USB	(HFD)
E07a	4-9	0800	Fri	11153	114 114 114 000	USB	(AB)
E07a	4-9	0820	Fri	12153	114 114 114 000	USB	(AB/yo3hju)
E07a	4-9	1510	Fri	10583	531 0	USB	(HFD)
E07a	4-9	1530	Fri	9383	531 531 531 000	USB	(MPJ/HFD)
E07a	5-9	0800	Sat	11153	114 114 114 000	USB	(HFD)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrl
E07a	5-9	0820	Sat	12153	114 114 114 000	USB	(HFD)
E07a	16-9	2000	Wed	8144	197 97 197 000	USB	(AB)
E07a	16-9	2000	Wed	8144	197 197 197 000	USB	(AB)
E07a	16-9	2020	Wed	6944	197 197 197 000	USB	(AB)
E07a	16-9	2020	Wed	6944	197 97 197 000	USB	(AB)
E07a	26-9	0800	Sat	11153	114 114 114 000	USB	(AB)
E07a	30-9	2000	Wed	8144	197 197 197 000	USB	(MPJ)
E11	1-9	0645	Tue	10800	517/00	USB	(HFD)
E11	1-9	0710	Tue	10221	633/00	USB	(AB/HFD)
E11	1-9	1045	Tue	8102	469/00	USB	(AB/HFD)
E11	1-9	1300	Tue	15632	133/00	USB	(AB/HFD)
E11	2-9	0805	Wed	11450	311/00	USB	(HFD)
E11	2-9	0900	Wed	9399	534/00	USB	(AB/HFD)
E11	2-9	0930	Wed	8803	270/00	USB	(AB/HFD)
E11	2-9	1300	Wed	15632	133/00	USB	(AB/MPJ)
E11	2-9	1705	Wed	10213	391/38 Attention 83030 04691 71694 ... 68669 27998 66369 Attention, rpt msg, out	USB	(AB/MPJ)
E11	3-9	0315	Thu	7850	253/00	USB	(HFD)
E11	3-9	0645	Thu	10800	517/00	USB	(AB)
E11	3-9	0820	Thu	9960	438/00	USB	(AB/HFD)
E11	3-9	0930	Thu	8803	270/00	USB	(AB)
E11	3-9	1530	Thu	10330	262/00	USB	(HFD)
E11	3-9	1730	Thu	9371	416/00	USB	(HFD)
E11	3-9	1925	Thu	10620	551/00	USB	(MPJ)
E11	4-9	0545	Fri	15915	348/00	USB	(HFD)
E11	4-9	0710	Fri	10221	633/00	USB	(AB)
E11	4-9	0730	Fri	15825	352/00	USB	(AB)
E11	4-9	0830	Fri	10690	649/00	USB	(AB/HFD)
E11	4-9	2000	Fri	7377	576/00	USB	(HFD/MPJ)
E11	5-9	2005	Sat	8186	363/00	USB	(HFD)
E11	6-9	0730	Sun	15825	352/00	USB	(HFD)
E11	6-9	1540	Sun	15915	228/00	USB	(HFD)
E11	7-9	0745	Mon	10213	262/00	USB	(HFD)
E11	9-9	1733	Wed	9371	416/00	USB	(GHn)
E11	10-9	1925	Thu	10620	551/00	USB	(AB)
E11	12-9	1705	Sat	10213	392/00	USB	(AB)
E11	12-9	1810	Sat	13455	986/10 Attention 28552 49994 66390 34340 60792 73652 19655 13889 55181 43511 Attention, rpt msg, out	USB	(AB/GHn)
E11	13-9	0805	Sun	11450	311/00	USB	(AB)
E11	13-9	1625	Sun	10448	972/00	USB	(AB)
E11	15-9	1045	Tue	8102	575/34 44468	USB	(HFD)
E11	15-9	1925	Tue	10620	551/00	USB	(HFD)
E11	16-9	0900	Wed	9399	534/00	USB	(AB)
E11	16-9	0930	Wed	8803	270/00	USB	(AB)
E11	16-9	1625	Wed	10448	972/00	USB	(AB)
E11	16-9	1705	Wed	10213	392/00	USB	(AB)
E11	17-9	1530	Thu	10330	262/00	USB	(GHn)
E11	20-9	2005	Sun	8186	363/00	USB	(GHn)
E11	22-9	0645	Tue	10800	517/00	USB	(AB)
E11	22-9	0710	Tue	10221	633/00	USB	(AB)
E11	22-9	0745	Tue	14575	335/00	USB	(AB)
E11	22-9	1300	Tue	15632	133/00	USB	(GHn)
E11	23-9	0805	Wed	11450	311/00	USB	(AB)
E11	23-9	1300	Wed	15632	133/00	USB	(AB)
E11	23-9	1625	Wed	10448	972/00	USB	(AB)
E11	24-9	0645	Thu	10800	517/00	USB	(AB)
E11	24-9	0820	Thu	9960	438/00	USB	(AB)
E11	24-9	0930	Thu	8803	270/00	USB	(AB)
E11	25-9	0710	Fri	10221	633/00	USB	(AB)
E11	25-9	0830	Fri	10690	649/00	USB	(AB)
E11	26-9	0710	Sat	14769	491/00	USB	(AB)
E11	27-9	0730	Sun	15825	352/00	USB	(AB)
E11	27-9	0805	Sun	11450	311/00	USB	(AB)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
E11	28-9	0745	Mon	10213	262/00	USB	(AB)
E11	28-9	0820	Mon	9960	438/00	USB	(AB)
E11	28-9	0830	Mon	10690	649/00	USB	(AB)
E11	29-9	0645	Tue	10800	517/00	USB	(AB)
E11	29-9	0710	Tue	10221	633/00	USB	(AB)
E11	29-9	0745	Tue	14575	335/00	USB	(AB)
E11	29-9	1300	Tue	15632	130/32 Attention 27828 56995 50942 27496 22445 ... 94812 04525 18218 58074 32140 At- tention, rpt msg, out	USB	(MPJ)
E11	29-9	1810	Tue	13455	981/10 Attention 96717 22565 15589 30692 19149 54733 18001 43125 38532 50190 Atten- tion, rpt msg, out	USB	(MPJ)
E11	29-9	1925	Tue	10620	551/00	USB	(MPJ)
E11	30-9	0545	Wed	15915	348/00	USB	(AB)
E11	30-9	0930	Wed	8803	270/00	USB	(AB)
E11a	1-9	0530	Tue	10213	983/10 33414	USB	(HFD)
E11a	1-9	0745	Tue	14575	330/35 Attention 35714 44122 72142 ... 61483 54559 13063 Attention, rpt msg, out	USB	(AB/HFD)
E11a	1-9	1400	Tue	13375	988/10 97990	USB	(HFD)
E11a	1-9	1400	Tue	13375	988/10 Attention 97990 45099 07609 27471 14423 09338 80905 74211 69231 55528 Atten- tion, rpt msg, out	USB	(MPJ)
E11a	1-9	1810	Tue	13455	980/10 Attention 20680 66610 43965 79628 73962 06837 74144 78385 02832 80794 Atten- tion, rpt msg, out	USB	(MPJ/HFD)
E11a	2-9	1625	Wed	10448	976/34 Attention 93152 77469 81532 ... 98067 49030 73568 Attention, rpt msg, out	USB	(AB/MPJ/HFD)
E11a	2-9	1705	Wed	10213	391/38 83030	USB	(HFD)
E11a	3-9	0745	Thu	14575	330/35 Attention 35714 44122 72142 ... 61483 54559 13063 Attention, rpt msg, out	USB	(AB)
E11a	4-9	1120	Fri	13375	952/40 Attention 30003 60248 01155 ... 19918 99351 02180 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	4-9	1710	Fri	5194	955/30 34130	USB	(HFD/MPJ)
E11a	7-9	1110	Mon	13375	952/31 85197	USB	(HFD)
E11a	7-9	1544	Mon	15915	i.p.	USB	(HFD)
E11a	14-9	0450	Mon	6304	412/32 41799	USB	(HFD)
E11a	22-9	1400	Tue	13375	980/10 Attention 50132 46248 12649 30235 05580 65267 43926 19183 01783 60853 Atten- tion, rpt msg, out	USB	(AB/GHn)
E11a	22-9	1810	Tue	13455	981/10 Attention 37076 40089 28390 04322 65837 60650 86423 66560 73680 93571 Atten- tion, rpt msg, out	USB	(AB/GHn)
E11a	26-9	1810	Sat	13455	980/10 Attention 70684 71376 82727 70951 07488 95899 66977 59813 15060 14795 Atten- tion, rpt msg, out	USB	(AB)
E11a	28-9	0900	Mon	9399	536/35 Attention 57209 52135 22631 ... 23405 23567 11555 Attention, rpt msg, out	USB	(AB)
E11a	29-9	1400	Tue	13375	980/10 Attention 51017 64967 89267 57979 31757 00598 52744 36841 43887 42417 Atten- tion, rpt msg, out	USB	(AB/MPJ)
E11a	30-9	0900	Wed	9399	536/35 Attention 57209 52135 22631 ... 23405 23567 11455 Attention, rpt msg, out	USB	(AB)
E17z	3-9	0800	Thu	14260	674 819 5 5177...	USB	(AB/HFD)
E17z	3-9	0810	Thu	12930	674	USB	(AB/HFD)
E17z	24-9	0800	Thu	12930	674 813 5 11171 64385 82707 06123 22526 813 5 00000	USB	(AB)
E17z	24-9	0800	Thu	14260	674 813 5 11171 64385 82707 06123 22526 813 5 00000	USB	(AB)
EGY	13-9	2051	Sun	7730	99907 MFA Cairo clg 99908	Codan Chirp	(KK2)
G06	7-9	0800	Mon	6810	329 329 329 00000	USB	(HFD)
G06	7-9	1700	Mon	4632	248 125 65 27051	USB	(HFD)
G06	7-9	1800	Mon	5380	248 125 65 27051	USB	(HFD)
G06	11-9	1930	Fri	5442	947 394 20 06132	USB	(HFD)
HM01	1-9	1559	Tue	11435	14054 68486 43761 48385 78521 86774	AM/RDFT	(DSch)
HM01	2-9	0600	Wed	10345	14054 68486 43761 48385 78521 86774	AM/RDFT	(AB)
HM01	2-9	0657	Wed	9330	14054 68486 43761 48385 78521 86774	AM/RDFT	(AB)
HM01	2-9	0857	Wed	9240	14054 68486 43761 48385 78521 86774	AM/RDFT	(AB)
HM01	2-9	0957	Wed	9155	14054 68486 43761 48385 78521 86774	AM/RDFT	(AB)
HM01	2-9	1559	Wed	11435	Same grps as yesterday 14054 68486 43761 48385 78521 86774	AM/RDFT	(DSch)
HM01	2-9	1736	Wed	11530	Same grps as yesterday 14054 68486 43761 48385 78521 86774	AM/RDFT	(DSch)
HM01	2-9	1759	Wed	11635	Same grps as yesterday 14054 68486 43761 48385 78521 86774	AM/RDFT	(DSch)
HM01	3-9	1600	Thu	11435	Too weak to copy	AM/RDFT	(DSch)
HM01	3-9	1700	Thu	11530	14054 68486 43761 48385 78521 86774	AM/RDFT	(DSch)
HM01	3-9	2151	Thu	16180	14054 68486 43761 48385 78521 86774	AM/RDFT	(DSch)
HM01	4-9	1559	Fri	11435	14055 68487 43761 48386 78522 86775	AM/RDFT	(DSch)
HM01	5-9	1757	Sat	11635	14056 68488 43762 48387 78523 86776	AM/RDFT	(DSch)
HM01	6-9	1559	Sun	11435	14057 68489 43763 43681 78524 86777	AM/RDFT	(DSch)
HM01	7-9	1559	Mon	11435	14057 68489 43763 43681 78524 86777	AM/RDFT	(DSch)
HM01	8-9	1629	Tue	11435	88411 53581 43765 43682 78526 45511	AM/RDFT	(DSch)

Code	Date	UTC	Day	Freq.	Details	Mode	Trb
HM01	8-9	2200	Tue	17480	88411 53581 43765 43682 78526 45511	AM/RDFT	(Dan)
HM01	9-9	1616	Wed	11435	88412 53582 43766 43683 78527 45511	AM/RDFT	(DSch)
HM01	9-9	1616	Wed	11435	88412 54582 43766 43683 78527 45511	AM/RDFT	(DSch)
HM01	10-9	1600	Thu	11435	88413 53583 43767 43684 78528 45512	AM/RDFT	(DSch)
HM01	10-9	1659	Thu	11530	88413 53583 43767 43684 78528 45512	AM/RDFT	(DSch)
HM01	10-9	2200	Thu	17480	88413 53583 43767 43684 78528 45512	AM/RDFT	(Dan)
HM01	11-9	1557	Fri	11435	Sending yesterday groups, then into new groups 88414 53584 43768 43685 63761 45513	AM/RDFT	(DSch)
HM01	12-9	1613	Sat	11435	88415 53585 87181 43686 63761 45514	AM/RDFT	(PPA)
HM01	13-9	1555	Sun	11435	Sends yesterdays groups then at 1559 UTC: 88416 53586 87181 43687 63762 45515	AM/RDFT	(DSch)
HM01	14-9	1552	Mon	11435	Tuning, then yesterdays groups at 1555z into by new groups 88417 5387 87182 43688 63763 45516 at 1559z	AM/RDFT	(DSch)
HM01	15-9	1559	Tue	11435	Yesterdays groups then 88541 53588 87183 64201 63764 45517	AM/RDFT	(DSch)
HM01	15-9	2200	Tue	17480	88541 53588 87183 64201 63764 45517	AM/RDFT	(Dan)
HM01	16-9	1700	Wed	11530	88541 53589 87184 64201 63765 45518	AM/RDFT	(DSch)
HM01	16-9	2200	Wed	10715	88541 53589 87184 64201 63765 45518	AM/RDFT	(Dan)
HM01	17-9	1759	Thu	10635	88542 58771 87185 64202 63766 45519	AM/RDFT	(DSch)
HM01	17-9	2200	Thu	17480	88542 58771 87185 64202 63766 45519	AM/RDFT	(Dan)
HM01	18-9	1737	Fri	11530	88543 58771 87186 64203 63767 32111	AM/RDFT	(DSch)
HM01	18-9	2200	Fri	10715	88543 58771 87186 64203 63767 33111	AM/RDFT	(Dan)
HM01	19-9	2000	Sat	16180	88544 58772 87187 64204 63768 33111	AM/RDFT	(DSch)
HM01	19-9	2158	Sat	17480	Very strong carrier, bad hum. Unreadable weak OM/SS talking, then into 88544 58772 87187 64204 63768 33111	AM/RDFT	(DSch)
HM01	20-9	1556	Sun	11435	17569 26691 54011 50637 44144 14767	AM/RDFT	(DSch)
HM01	21-9	1600	Mon	11435	88546 58774 87189 64206 12371 33113	AM/RDFT	(DSch)
HM01	22-9	1556	Tue	11435	Sending yesterdays groups, then at 1559z: 88547 58775 85861 64207 12371 33114	AM/RDFT	(DSch)
HM01	22-9	2230	Tue	17480	88547 58775 85861 64207 12371 33114	AM/RDFT	(Dan)
HM01	23-9	0529	Wed	5855	88547 58775 85861 64207 12371 33114	AM/RDFT	(AB)
HM01	23-9	0557	Wed	10345	88547 58775 85861 64207 12371 33114	AM/RDFT	(AB)
HM01	23-9	0657	Wed	9330	88547 58775 85861 64207 12371 33114	AM/RDFT	(AB)
HM01	23-9	1614	Wed	11435	88548 58776 85861 64208 12372 33115	AM/RDFT	(DSch)
HM01	23-9	2230	Wed	10715	88548 58776 85861 64208 12372 33115	AM/RDFT	(Dan)
HM01	24-9	1659	Thu	11530	35651 58777 85862 56241 12373 33116	AM/RDFT	(DSch)
HM01	25-9	1559	Fri	11435	35651 72261 85863 56241 12374 33117	AM/RDFT	(DSch)
HM01	26-9	1543	Sat	11435	Sending yesterday grps at 1543z. At 1559z into 35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM01	27-9	1559	Sun	11435	Yesterdays groups	AM/RDFT	(DSch)
HM01	27-9	1702	Sun	11530	Yesterdays groups	AM/RDFT	(DSch)
HM01	27-9	1759	Sun	11635	Yesterdays groups	AM/RDFT	(DSch)
HM01	27-9	2058	Sun	11635	Yesterdays groups	AM/RDFT	(DSch)
HM01	27-9	2153	Sun	10715	Tuning xmtr at 2153 UTC, then yesterdays groups	AM/RDFT	(DSch)
HM01	28-9	1559	Mon	11435	35652 72261 85864 56242 12375 33118	USB	(DSch)
HM01	28-9	1659	Mon	11530	35652 72261 85864 56242 12375 33118	USB	(DSch)
HM01	28-9	1812	Mon	11635	35652 72261 85864 56242 12375 33118	USB	(DSch)
HM01	28-9	2052	Mon	11635	35652 72261 85864 56242 12375 33118	USB	(DSch)
HM01	28-9	2158	Mon	10715	35652 72261 85864 56242 12375 33118	USB	(DSch)
HM01	29-9	0659	Tue	13435	35652 72261 85864 56242 12375 33118	AM/RDFT	(AB)
HM01	29-9	0759	Tue	11635	35652 72261 85864 56242 12375 33118	AM/RDFT	(AB)
HM01	29-9	1559	Tue	11435	35652 72261 85864 56242 12375 33118	USB	(DSch)
HM01	29-9	1713	Tue	11530	35652 72261 85864 56242 12375 33118	USB	(DSch)
HM01	29-9	2159	Tue	10715	35652 72261 85864 56242 12375 33118	USB	(DSch)
HM01	30-9	0527	Wed	5855	35652 72261 85864 56242 12375 33118	AM/RDFT	(AB)
HM01	30-9	0557	Wed	10345	35652 72261 85864 56242 12375 33118	AM/RDFT	(AB)
HM01	30-9	0657	Wed	9330	35652 72261 85864 56242 12375 33118	AM/RDFT	(AB)
HM01	30-9	1559	Wed	11435	35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM01	30-9	1759	Wed	11635	35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM01	30-9	2141	Wed	11635	35652 72261 85864 56242 12375 33118	AM/RDFT	(DSch)
HM02	27-9	0459	Sun	7351	Starts with FSK callup then into CW 999 205 37 = 37064 76227 36375 ... 71386 57894 36598 = 205 37 rpt msg = 205 37 000	CW	(AB)
M01	1-9	1800	Tue	5475	463 218 30 == = 03521 94979 23165 22594 18590 ... 09171 46554 77304 86270 35048 == = 218 30 000	CW	(MPJ/HFD)
M01	1-9	2000	Tue	5020	463 123 30 == = 71675 02007 24574 39441 40588 ... 87009 43635 __441 54138 65018 == = 123 30 000	CW	(MPJ/HFD)
M01	3-9	1958	Thu	5020	463 131 30 == = 56046 54189 36746 ... 47113 26443 44371 == = 131 30 000	CW	(MPJ)
M01	27-9	0700	Sun	6510	463 (R) 19 3T == = 65742 65742 58789 ...	CW	(AB/HFD)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrl
M01	29-9	1800	Tue	5475	463 903 30 == 33968 79838 25386 94967 (94697) 99312 ... 53716 9282 9282 58580 58589 54734 == 903 30 0x0x0x (x=6 dots). Full of errors	CW	(MPJ)
M01	29-9	2000	Tue	5020	463 147 30 == 69587 50964 17700 01377 65804 ...	CW	(MPJ)
M01a	24-9	0008	Thu	4598	i.p. ... 68281 501 501 501 69189 69189 etc.	CW	(Topol)
M01a	24-9	0031	Thu	4609	i.p. ... 333 11783 11783 etc.	CW	(Topol)
M01b	3-9	1832	Thu	4605	201 707 30 03016 //3510	CW	(HFD)
M01b	3-9	1832	Thu	3510	201 707 30 03016 //4605	CW	(HFD)
M01b	3-9	1942	Thu	4570	774 707 30 == 03016 27233 96271 94559 14111 ... 53813 58294 69690 95717 97222 == 707 30 000	MCW	(MPJ/HFD)
M01b	3-9	1942	Thu	3715	477 707 30 03016 //4570	CW	(HFD)
M01b	7-9	1915	Mon	4454	771 707 30 03016 //3644	CW	(HFD)
M01b	7-9	1915	Mon	3644	771 707 30 03016 //4454	CW	(HFD)
M01b	14-9	1810	Mon	4590	420 707 30 03016 //3535	CW	(HFD)
M01b	14-9	1810	Mon	3535	420 707 30 03016 //4590	CW	(HFD)
M01b	14-9	1915	Mon	4454	771 707 30 03016 //3644	CW	(HFD)
M01b	14-9	1915	Mon	3644	771 707 30 03016 //4454	CW	(HFD)
M01b	25-9	1902	Fri	4940	153 707 30 03016 //3625	CW	(HFD)
M01b	25-9	1902	Fri	3625	153 707 30 03016 //4940	CW	(HFD)
M01b	25-9	2010	Fri	3520	582 707 30 03016 //4585	CW	(HFD)
M01b	25-9	2010	Fri	4585	582 707 30 03016 //3520	CW	(HFD)
M01b	28-9	1810	Mon	4590	420 707 30 == 03016 27233 96271 94559 14111 ... 53813 58294 69690 95717 97222 == 707 30 000 //3535 kHz	MCW	(MPJ)
M01b	28-9	1810	Mon	3535	420 707 30 == 03016 27233 96271 94559 14111 ... 53813 58294 69690 95717 97222 == 707 30 000 //4590 kHz	MCW	(MPJ)
M01b	28-9	1915	Mon	4455	771 707 30 == 03016 27233 96271 94559 14111 ... 53813 58294 69690 95717 97222 == 707 30 000	MCW	(MPJ)
M03	2-9	1320	Wed	5463	543/00	CW	(HFD)
M03	3-9	1325	Thu	9150	i.p.	CW	(HFD)
M03	4-9	1420	Fri	13911	873/33 70463	CW	(HFD)
M03	23-9	1320	Wed	5463	543/00 == 000	CW	(AB)
M03	27-9	1320	Sun	9150	437/00 == 000 (VVV at 1313 UTC)	CW	(AB)
M03	30-9	1320	Wed	5463	543/00 == 000	CW	(AB)
M08a	1-9	1957	Tue	7554	IAGDA GUNRA TIWGN into text	CW	(DSch)
M08a	1-9	2257	Tue	8135	NGRWA DATIA UUDAN into text	CW	(DSch)
M08a	2-9	2012	Wed	7554	i.p.	CW	(DSch)
M08a	2-9	2304	Wed	8009	i.p.	CW	(DSch)
M08a	3-9	1406	Thu	8096	In tfc	CW	(DSch)
M08a	3-9	2000	Thu	7554	DAUNN UUIUA RIAIN & into msgs in cut nbrs	CW	(DSch)
M08a	4-9	2003	Fri	7554	In tfc	CW	(DSch)
M08a	5-9	2002	Sat	7554	AGNRN NNWTA DWTNN cut nbrs	CW	(DSch)
M08a	5-9	2304	Sat	8009	DWTNN cut nbrs	CW	(DSch)
M08a	7-9	1410	Mon	8096	Missed 1st addressee group then TIGRA AANGN and into msgs	CW	(DSch)
M08a	8-9	2309	Tue	8135	i.p.	CW	(DSch)
M08a	10-9	1429	Thu	8096	i.p.	CW	(DSch)
M08a	10-9	2000	Thu	7554	i.p.	CW	(DSch)
M08a	10-9	2302	Thu	8135	i.p.	CW	(DSch)
M08a	13-9	1400	Sun	8096	AGNRN NNWTA DWTNN into Cuban cut nbrs	CW	(DSch)
M08a	13-9	2002	Sun	7554	i.p.	CW	(DSch)
M08a	13-9	2250	Sun	8135	AGNRN NNWTA DWTNN into Cuban cut nbrs	CW	(DSch)
M08a	14-9	2259	Mon	8009	TTNGA NDWWA DRGUN into cut nbrs tfc	CW	(DSch)
M08a	15-9	1357	Tue	8096	RTGIN IDNTA GWWDN	CW	(DSch)
M08a	15-9	1957	Tue	7554	IWGAA GGNUN TNRRN into cut nbrs tfc	CW	(DSch)
M08a	15-9	2257	Tue	8135	NATDN DUURA UIIGN into cut nbrs tfc	CW	(DSch)
M08a	16-9	1431	Wed	8096	In tfc	CW	(DSch)
M08a	16-9	2002	Wed	7554	No callup, right into number groups	CW	(DSch)
M08a	16-9	2259	Wed	8009	DUURN AIIAN NAAUA and into cut nbrs	CW	(DSch)
M08a	17-9	1405	Thu	8096	In tfc, cut nbrs	CW	(DSch)
M08a	17-9	1958	Thu	7554	DANDA UURRA WRTGN into cut nbrs	CW	(DSch)
M08a	18-9	1407	Fri	8096	Missed 1st addressee group, NNWTA DWTNN into cut nbrs	CW	(DSch)
M08a	18-9	2300	Fri	8135	In tfc	CW	(DSch)
M08a	19-9	1358	Sat	8096	AGNRN NNWTA DWTNN into cut nbrs	CW	(DSch)
M08a	19-9	1959	Sat	7554	AGNRN NNWTA DWTNN into cut nbrs. Noisy transmitter	CW	(DSch)
M08a	19-9	2311	Sat	8009	NNWTA into cut nbrs	CW	(DSch)

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M08a	20-9	1405	Sun	8096	AGNRN NNWTA DWTNN into cut nbrs	CW	(DSch)
M08a	20-9	2004	Sun	7554	AGNRN NNWTA DWTNN cut nbrs	CW	(DSch)
M08a	20-9	2304	Sun	8135	No callup, into tfc	CW	(DSch)
M08a	21-9	1357	Mon	8096	IATIA TUUTN AIDA into tfc	CW	(DSch)
M08a	21-9	2257	Mon	8009	UGGWA WNNIN RWRAA into tfc	CW	(DSch)
M08a	22-9	1959	Tue	7554	RWRUN IGTIA GNDTN into tfc	CW	(DSch)
M08a	22-9	2300	Tue	8135	Missed 1st addressee DAIAA UUNUN into	CW	(DSch)
M08a	23-9	1404	Wed	8096	In tfc	CW	(DSch)
M08a	23-9	1954	Wed	7554	Tuning but no traffic	CW	(DSch)
M08a	23-9	2301	Wed	8009	No callup, goes right into traffic	CW	(DSch)
M08a	24-9	1958	Thu	7554	Bad transmitter. Unreadable	CW	(DSch)
M08a	24-9	2300	Thu	8135	In tfc	CW	(DSch)
M08a	25-9	1957	Fri	7554	TRDWA NDTAA ATRGN into cut nbrs	CW	(DSch)
M08a	25-9	2306	Fri	8135	In tfc	CW	(DSch)
M08a	26-9	1356	Sat	8096	AGNRN NNWTA DWTNN into tfc. Noise on freq	CW	(DSch)
M08a	27-9	1405	Sun	8096	ANDUW RIGMT. Every 5 times adds another RIGMT. Continues sending these address groups unil 1508 UTC then goes off.	CW	(DSch)
M08a	28-9	2257	Mon	8009	RIUUN GTGIA TDNTN into tfc	CW	(DSch)
M08a	29-9	2001	Tue	7554	In tfc	CW	(DSch)
M08a	29-9	2259	Tue	8135	In tfc	CW	(DSch)
M08a	30-9	1416	Wed	8096	In tfc	CW	(DSch)
M08a	30-9	2005	Wed	7554	Tuned xmtr but no transmission	CW	(DSch)
M12	1-9	1930	Tue	10343	124 1 9444 57 79213 74959 33861 95783 60841 ... 43750 18265 22437 09674 38267 000	CW	(MPJ/HFD)
M12	1-9	1950	Tue	9264	124 1 9444 57 79213 74959 33861 95783 60841 ... 43750 18265 22437 09674 38267 000	CW	(MPJ/HFD)
M12	1-9	2010	Tue	8116	124 1 9444 57 79213 74959 33861 95783 60841 ... 43750 18265 22437 09674 38267 000	CW	(HFD)
M12	2-9	1800	Wed	9176	257 1 4021 135 33494 01567 25584 10562 08859 ... 25505 06948 48260 62028 30290 000	CW	(MPJ/HFD)
M12	2-9	1820	Wed	7931	257 1 4021 135 33494 01567 25584 10562 08859 ... 25505 06948 48260 62028 30290 000	CW	(MPJ/HFD)
M12	2-9	1840	Wed	6904	257 1 4021 135 33494 01567 25584 10562 08859 ... 25505 06948 48260 62028 30290 000	CW	(MPJ/HFD)
M12	2-9	1900	Wed	8047	463 1 7637 138 37730 32582 48167 08006 70821 ... 54385 00025 51723 67011 34163 000	CW	(MPJ/HFD)
M12	2-9	1920	Wed	6802	463 1 7637 138 37730 32582 48167 08006 70821 ... 54385 00025 51723 67011 34163 000	CW	(MPJ/HFD)
M12	2-9	1930	Wed	11435	938 1 1396 51 21575 42320 55975 95210 78230 ... 58085 87802 33541 13376 70933 000	CW	(MPJ/HFD)
M12	2-9	1940	Wed	5788	463 1 7637 138 37730 32582 48167 08006 70821 ... 54385 00025 51723 67011 34163 000	CW	(MPJ/HFD)
M12	2-9	1950	Wed	10598	938 1 1396 51 21575 42320 55975 95210 78230 ... 58085 87802 33541 13376 70933 000	CW	(MPJ/HFD)
M12	2-9	2010	Wed	9327	938 1	CW	(HFD)
M12	2-9	2100	Wed	6793	785 0	CW	(HFD)
M12	2-9	2110	Wed	11469	441 0	CW	(HFD)
M12	2-9	2120	Wed	5893	785 0	CW	(HFD)
M12	2-9	2130	Wed	10469	441 0	CW	(HFD)
M12	3-9	1310	Thu	13873	834 0	CW	(HFD)
M12	3-9	1330	Thu	13373	834 0	CW	(HFD)
M12	3-9	1500	Thu	13386	725 1 (R) 8414 110 8414 110 46541 04040 06936 ... 51297 20342 18387 000 000	CW	(AB)
M12	3-9	1520	Thu	12189	725 1 (R) 8414 110 8414 110 46541 04040 06936 ... 51297 20342 18387 000 000	CW	(AB)
M12	3-9	1540	Thu	11491	725 1 (R) 8414 110 8414 110 46541 04040 06936 ... 51297 20342 18387 000 000	CW	(AB)
M12	3-9	1700	Thu	13386	725 1 (R) 5363 117 5363 117 16002 10456 05812 ... 93494 85462 60160 000 000	CW	(AB/HFD)
M12	3-9	1720	Thu	12189	725 1 (R) 5363 117 5363 117 16002 10456 05812 ... 93494 85462 60160 000 000	CW	(AB/HFD)
M12	3-9	1740	Thu	11491	725 1 (R) 5363 117 5363 117 16002 10456 05812 ... 93494 85462 60160 000 000	CW	(AB/HFD)
M12	3-9	1800	Thu	10343	124 1 4791 149 69880 17001 06929 05436 08146 ... 26453 29591 50755 07797 21766 000	CW	(HFD)
M12	3-9	1820	Thu	9264	124 1 4791 149 69880 17001 06929 05436 08146 ... 26453 29591 50755 07797 21766 000	CW	(HFD)
M12	3-9	1840	Thu	8116	124 1 4791 149 69880 17001 06929 05436 08146 ... 26453 29591 50755 07797 21766 000	CW	(MPJ/HFD)

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M12	3-9	1900	Thu	10343	124 1 6963 115 87878 70552 14825 90018 54907 ... 59382 19510 33526 57991 13826 000 000	CW	(MPJ)
M12	3-9	1920	Thu	9264	124 1 6963 115 87878 70552 14825 90018 54907 ... 59382 19510 33526 57991 13826 000 000	CW	(MPJ)
M12	3-9	1940	Thu	8116	124 1 6963 115 87878 70552 14825 90018 54907 ... 59382 19510 33526 57991 13826 000 000	CW	(MPJ)
M12	10-9	1500	Thu	13386	725 1	CW	(HFD)
M12	10-9	1520	Thu	12189	725 1	CW	(HFD)
M12	10-9	1540	Thu	11491	725 1	CW	(HFD)
M12	17-9	0650	Thu	7684	761 0	CW	(HFD)
M12	19-9	0500	Sat	8176	134 0	CW	(HFD)
M12	19-9	0520	Sat	9376	134 0	CW	(HFD)
M12	21-9	0430	Mon	5792	796 0	CW	(HFD)
M12	21-9	0450	Mon	6992	796 0	CW	(HFD)
M12	23-9	2120	Wed	4593	785 1 9261 125 20184 66343 29631 ... 80682 92456 21783 000 000	CW	(AB)
M12	23-9	2120	Wed	5893	785 1 9261 125 20184 66343 29631 ... 80682 92456 21783 000 000	CW	(AB)
M12	24-9	1330	Thu	13373	834 834 834 000	CW	(AB)
M12	24-9	1520	Thu	12189	725 1 2751 112 06540 93697 65694 ...	CW	(AB)
M12	28-9	1120	Mon	13559	973 1 2056 140 02029 14803 84738 70504 10877 ... 50785 40065 79230 57070 70721 000 000	CW	(MPJ)
M12	28-9	1140	Mon	14728	973 1 2056 140 02029 14803 84738 70504 10877 ... 50785 40065 79230 57070 70721 000 000	CW	(MPJ)
M12	28-9	1420	Mon	6802	463 1 4688 147 10228 75210 99912 85752 75405 ... 77973 58496 93146 29865 46754 000 000	CW	(MPJ)
M12	28-9	1700	Mon	11435	938 1 7992 114 24860 95417 94812 53925 82886 ... 97787 34402 87519 08530 97104 000 000	CW	(MPJ)
M12	28-9	1720	Mon	10598	938 1 7992 114 24860 95417 94812 53925 82886 ... 97787 34402 87519 08530 97104 000 000	CW	(MPJ)
M12	28-9	1740	Mon	9327	938 1 7992 114 24860 95417 94812 53925 82886 ... 97787 34402 87519 08530 97104 000 000	CW	(MPJ)
M12	28-9	1800	Mon	5788	463 1 4688 147 10228 75210 99912 85752 75405 ... 77973 58496 93146 29865 46754 000 000	CW	(MPJ)
M12	28-9	1800	Mon	8047	463 1 4688 147 10228 75210 99912 85752 75405 ... 77973 58496 93146 29865 46754 000 000	CW	(MPJ)
M12	28-9	1900	Mon	9176	257 1 4626 111 29450 98466 97421 54004 28257 ... 86972 18406 06551 22558 87161 000 000	CW	(MPJ)
M12	28-9	1920	Mon	7931	257 1 4626 111 29450 98466 97421 54004 28257 ... 86972 18406 06551 22558 87161 000 000	CW	(MPJ)
M12	28-9	1940	Mon	6904	257 1 4626 111 29450 98466 97421 54004 28257 ... 86972 18406 06551 22558 87161 000 000	CW	(MPJ)
M12	28-9	2000	Mon	8047	463 1 5989 65 12578 33548 _5986 81967 60925 ... 16065 76089 273_6 95651 75808 000 000	CW	(MPJ)
M12	29-9	1930	Tue	10343	124 1 1888 70 11837 31199 39309 86565 89420 ... 13069 02640 44635 42528 00275 000 000	CW	(MPJ)
M12	29-9	1950	Tue	9264	124 1 1888 70 11837 31199 39309 86565 89420 ... 13069 02640 44635 42528 00275 000 000	CW	(MPJ)
M12	29-9	2000	Tue	8047	463 1 522 71 60888 76219 94194 21524 86701 ... 57 14 69095 61748 48471 68214 000 000 000	CW	(MPJ)
M12	30-9	1420	Wed	7931	257 1 1523 140 35166 03137 49470 52756 91350 ... 82222 74500 33738 35679 50498 000 000	CW	(MPJ)
M12	30-9	1800	Wed	9176	257 1 1523 140 35166 03137 49470 52756 91350 ... 82222 74500 33738 35679 50498 000 000	CW	(MPJ)
M12	30-9	1800	Wed	6904	257 1 1523 140 35166 03137 49470 52756 91350 ... 82222 74500 33738 35679 50498 000 000	CW	(MPJ)
M12	30-9	1900	Wed	8047	463 1 1698 142 64673 74268 26847 05056 94847 ... 60814 59303 90269 76765 68256 000 000	CW	(MPJ)
M12	30-9	1920	Wed	6802	463 1 1698 142 64673 74268 26847 05056 94847 ... 60814 59303 90269 76765 68256 000 000	CW	(MPJ)
M12	30-9	1930	Wed	11435	938 1 9476 57 12459 88103 85624 65613 56348 ... 14942 03939 58066 11025 83506 000 000	CW	(MPJ)
M12	30-9	1940	Wed	5788	463 1 1698 142 64673 74268 26847 05056 94847 ... 60814 59303 90269 76765 68256 000 000	CW	(MPJ)
M12	30-9	1950	Wed	10598	938 1 9476 57 12459 88103 85624 65613 56348 ... 14942 03939 58066 11025 83506 000 000	CW	(MPJ)
M12	30-9	2000	Wed	8047	463 1 522 71 60888 76219 94194 21524 86701 ... 57514 69095 81848 48471 68214 000 000 000	CW	(MPJ)
M14	4-9	1700	Fri	5944	382 382 382 00000	MCW	(MPJ/HFD)
M14	4-9	1800	Fri	5477	382 382 382 00000	MCW	(MPJ/HFD)

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M14	9-9	1920	Wed	5464	537 592 020 27856	CW	(HFD)
M14	25-9	0930	Fri	17412	457 457 457 00000	CW	(AB)
M21	8-9	1414	Tue	4280	=99?1713?9?9?9?9?	CW	(JPL-Sib)
M22	21-9	2115	Mon	6607	VVV 4XZ = = AR AR NW QTC 1 NR 594 = = NR 594 IQ V NJ9Q 230212 à //4331 kHz	CW	(AB)
M22	21-9	2115	Mon	4331	VVV 4XZ = = AR AR NW QTC 1 NR 594 = = NR 594 IQ V NJ9Q 230212 à //6607 kHz	CW	(AB)
M32	1-9	1653	Tue	6853	VVV A2LZ A2LZ A2LZ DE A1LK A1LK K. DE A1LK K.	CW	(JPL-Sib)
M32	2-9	1331	Wed	6958	VVV ITLT DE J63Q K. VVV ITLT DE L9SS K. ITLT DE PRTP K. ITLT DE J8KU K. ITLT DE 9HKN K	CW	(JPL-Sib)
M32	4-9	1444	Fri	16112	RDL Bee traffic into CW: RDL RDL RDL 73618 77594 73618 77594 73618 77594 K	BEE 50/200	(AB)
M32	4-9	1445	Fri	16112	RDL RDL RDL 05666 39401 05666 39401 05666 39401 K	CW	(AB)
M32	4-9	1539	Fri	16112	RDL Bee traffic into CW: RDL RDL RDL T8T68 T2T82 T8T68 T2T82 T8T68 T2T82 K	BEE 50/200	(AB)
M32	4-9	1902	Fri	16048	Russian Mil. QBPR de HTCP K	CW	(MPJ)
M32	6-9	1352	Sun	10112	i.p. ... 67840 86950 05030 = 975 QXS AR WK7O DE JW9B K	CW	(JPL-Sib)
M32	7-9	1550	Mon	3392	FX7T	CW	(JPL-Sib)
M32	7-9	1604	Mon	3302	CV9O DE HF8T K (see N&O 216)	CW	(JPL-Sib)
M32	8-9	1210	Tue	8747	MRRMW DE 7EAZ R 150? K. WJV8 DE 7EAZ R 150? K. VVV VVV VVV AR	CW	(JPL-Sib)
M32	8-9	1432	Tue	3193	EM4X	CW	(JPL-Sib)
M32	12-9	0506	Sat	6968	HNMD DE DV1W	CW	(PPA)
M32	12-9	0526	Sat	6968	HNMD DE 3AWZ QTC 951 28 12 0820 961 = 053 =	CW	(PPA)
M32	12-9	1731	Sat	6962	5BON clg SPXJ	CW	(PPA)
M32	14-9	1706	Mon	6853	9CCK clg net control. PHHL DE 9CCK	CW	(PPA)
M32	14-9	1711	Mon	6874	ILWO: Russian military setting up an encrypted CW link with KKVLL string	CW	(PPA)
M32	14-9	2040	Mon	7963	psq4 de ni8f qtc k	CW	(Brit)
M32	16-9	1732	Wed	6853	PHHL DE WHGQ	CW	(PPA)
M32	18-9	1430	Fri	16048	VVVVV QVQ IPRDE QV7C K	CW	(JCS)
M32	25-9	0416	Fri	5836	GCZM DE K5GF	CW	(PPA)
M32	25-9	0430	Fri	5836	GCZM DE PJMF	CW	(PPA)
M32	27-9	0445	Sun	5181.5	MTJD wkg 4 out stations: 3NPP TBC9 A2NCP FKV5	CW	(CA2)
M32	27-9	0451	Sun	5105	BKJO wkg 3 out stations	CW	(CA2)
M32	27-9	0544	Sun	5269.5	DONB wkg 5 out stations: FNVJ OSNHN YCGZ NISG SJNM	CW	(CA2)
M32	27-9	0602	Sun	4602	SOF9 wkg 3 out stations: ZG5O VIV9 NNN7 1HFJ QQ1R	CW	(CA2)
M32	30-9	0918	Wed	9347	XXX RGT77 23725 14486 ABOD 2308 1175 K	CW	(F5JBR)
M32	30-9	1700	Wed	4973	XXX RLO BUM 48 III 5 = 49 III 0 OTMENAETSA K	CW	(F5JBR)
M32	30-9	1814	Wed	3331	XXX WEGI WEGI 05013 AEGOM R 1836905	CW	(JPL-Sib)
M32	30-9	1815	Wed	7963	XXX WEGI 05013 AEROM 1183 6905 //4471 kHz	CW	(CA2)
M32	30-9	1815	Wed	4471	XXX WEGI 05013 AEROM 1183 6905 //7963 kHz	CW	(CA2)
M32a	4-9	1803	Fri	8345	VVV RMP DE RKO81 QSA? QTC	CW	(Topol)
M32a	5-9	1743	Sat	8345	RIT DE RJY96 QSA2	CW	(Topol)
M32a	9-9	0506	Wed	6956	RMW46: Russian navy Netcontrol clg RGR90, RGR91, RFH46, RGR93, RGR95 and RGR96 for ZSA	CW	(PPA)
M32a	14-9	2122	Mon	7664	vvv rmr v rmr v rmr v de riw riw sa? k	CW	(Brit)
M32a	17-9	1810	Thu	6870	RCV DE RCIV	CW	(PPA)
M32a	18-9	1909	Fri	8345	RIT RIT RIT DE RHM80 RHM80 QSA? QTC K	CW	(JU)
M32a	21-9	0655	Mon	14556	RHM80 DE RIW QSA2 K	CW	(AAI)
M32a	26-9	1102	Sat	8210	RKA80 de RMP QRR3 QDW 5745 AR	CW	(F5JBR)
M32a	26-9	1105	Sat	5745	RMP in QSO with RKA80	CW	(F5JBR)
M32a	26-9	1132	Sat	8210	RKA80 de RMP QSU 1 QSX 4988 QWH 4208 AR	CW	(F5JBR)
M32a	26-9	1135	Sat	4208	VESTNIK (RMP) in QSO with ZALZA (RKA80)	CW	(F5JBR)
M32a	27-9	0435	Sun	5224	RGX94 de RCV QTC 933 30 27 022 933 = NAWIP 137 1938 KARTA 32325 ITALIA ...	CW	(CA2)
M32a	27-9	0440	Sun	5171	RGZ59 de RCV QSU 1 QSX 4846 QWH 5079AAA5	CW	(F5JBR)
M32a	27-9	1438	Sun	15586	RHM80 de RCV QSU1 QSX 12251 QWH 13125	CW	(F5JBR)
M32a	27-9	1754	Sun	7467	RIT clg RHM80 ù RJP92	CW	(F5JBR)
M32a	28-9	0603	Mon	12464	Navy Ship Donuzlav: rcv de rmcw 458 33 28 0856 458 = sml for rje73 rjh45 = kxxxx 28095 0600x	CW	(WP3)
M32a	28-9	0604	Mon	12464	Navy Ship Donuzlav: rmcw 256 18 28 0902 256 = sml for rje73 rjh45 = 28061 99354 10358 ... 88000 80000 28014 = + rmcw k	CW	(WP3)
M32a	28-9	1711	Mon	4039	XXX RLO WETER 3 PO RAJONU 73 OTMENASTSA K	CW	(F5JBR)
M32b	6-9	1601	Sun	7980	RJC48 DE RJF94 QSA ? K. RJF94 DE RJC48 QSA 3 K. RCH84 DE RJC48 QSA ? K. RJF94 DE RCH84 QSA 3 K	CW	(JPL-Sib)
M32c	2-9	1900	Wed	7117	REA4 Russian Air Force, Moscow	FSK 100/1000	(IARUMS)
M32c	7-9	2340	Mon	7117	99900 0 616 0 200 6997430 80502 10123 20118 76166 = REA4 K	CW	(JPL-Sib)
M32c	10-9	1520	Thu	8162	W-markers	CW	(Tom)
M32c	16-9	0600	Wed	8162	W-markers	CW	(Tom)

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M32c	29-9	1542	Tue	4521	REA4 = 29140 99900 28150 27627 41997 01603 10248 20196 79700 = REA4 K	CW	(F5JBR)
M42	4-9	1139	Fri	19416	RGP RGP DE UCU UCU QSY 17460 QSY 17460	CW	(yo3hvj)
M42	4-9	1146	Fri	14432	RGP RGP DE UCU UCU QSY 17460 QSY 17460	CW	(yo3hvj)
M42	9-9	1727	Wed	6956	BZL26 Russian gov station	FSK 50/500	(PPA)
M42	16-9	1735	Wed	6856	BZL26	FSK 50/500	(PPA)
M42	24-9	1625	Thu	11074.7	Russian station with encrypted traffic ending +++++ then into F1A/CW/250 QTC 910 32 24 1853 910 = FM 422548 FOR 925597 = into 5L mag in F1A/CW	FSK 50/250	(PPA)
M42c	2-9	1840	Wed	13467	=8501 77431400000105)8143 ++++++77	FSK 200/500	(MPJ)
M42c	2-9	1850	Wed	11084	=8501 77431400000105)8143 ++++++77	FSK 200/500	(MPJ)
M42c	3-9	1900	Thu	9239	Russian diplo/intel.	FSK 200/500	(HFD)
M42c	3-9	1910	Thu	6903	Russian diplo/intel.	FSK 200/500	(HFD)
M42c	3-9	1920	Thu	5087	Russian diplo/intel.	FSK 200/500	(HFD)
M42c	5-9	1200	Sat	17441	Russian diplo/intel.	FSK 200/500	(HFD)
M42c	5-9	1210	Sat	15845	Russian diplo/intel.	FSK 200/500	(HFD)
M42c	5-9	1220	Sat	13506	Russian diplo/intel.	FSK 200/500	(HFD)
M42c	7-9	1840	Mon	13465	Russian diplo/intel. =8501 90398515510971749	FSK 200/500	(AB)
M42c	7-9	1850	Mon	11082	Russian diplo/intel. =8501 90398515510971749	FSK 200/500	(AB)
M42c	7-9	1900	Mon	9050	Russian diplo/intel. =8501 90398515510971749	FSK 200/500	(AB)
M42c	10-9	1900	Thu	9237	Russian diplo/intel. RYRYRY 5761 00000+++++162)	FSK 200/500	(AB)
M42c	10-9	1910	Thu	6902	Russian diplo/intel. RYRYRY 5761 00000+++++162)	FSK 200/500	(AB)
M42c	10-9	1920	Thu	5085	Russian diplo/intel. RYRYRY 5761 00000+++++162)	FSK 200/500	(AB)
M42c	12-9	1810	Sat	13382	Russian diplo/intel. RYRYRY 5761 00000+++++162)	FSK 200/500	(AB)
M42c	12-9	1820	Sat	11439	Russian diplo/intel. RYRYRY 5761 00000+++++162)	FSK 200/500	(AB)
M42c	12-9	1830	Sat	9182	Russian diplo/intel. RYRYRY 5761 00000+++++162)	FSK 200/500	(AB)
M42c	26-9	1810	Sat	13382	Russian diplo/intel. RYRYRY 5761 00000+++++162)	FSK 200/500	(AB)
M42c	26-9	1820	Sat	11439	Russian diplo/intel. RYRYRY 5761 00000+++++162)	FSK 200/500	(AB)
M42c	26-9	1830	Sat	9182	Russian diplo/intel. RYRYRY 5761 00000+++++162)	FSK 200/500	(AB)
M42d	1-9	1410	Tue	15636	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	1-9	1420	Tue	13371	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	1-9	1650	Tue	15846	Russian diplo/intel. Msg 002 in link 20501	FSK 200/1000	(MPJ)
M42d	1-9	1700	Tue	13383	Russian diplo/intel. Msg 002 in link 20501	FSK 200/1000	(AB/MPJ)
M42d	1-9	1710	Tue	11087	Russian diplo/intel. Msg 002 in link 20501	FSK 200/1000	(AB/MPJ)
M42d	2-9	0600	Wed	15928	Russian diplo/intel.	FSK 200/1000	(AB)
M42d	2-9	0700	Wed	8181	Russian diplo/intel. Msg 240 on link 45136	FSK 200/1000	(AB)
M42d	2-9	1210	Wed	7631	Russian diplo/intel.	FSK 200/1000	(AB)
M42d	2-9	1244	Wed	16309	Russian Diplo/Intel. Msg 002 on link 53277	FSK 200/1000	(AAI)
M42d	3-9	0600	Thu	15928	Russian diplo/intel. Msg 037 on link 32817	FSK 200/1000	(AB)
M42d	3-9	0610	Thu	13501	Russian diplo/intel. Msg 037 on link 32817	FSK 200/1000	(AB)
M42d	3-9	0620	Thu	11107	Russian diplo/intel. Msg 037 on link 32817	FSK 200/1000	(AB)
M42d	3-9	0700	Thu	8181	Russian diplo/intel. Msg 242 on link 45236	FSK 200/1000	(AB)
M42d	4-9	0700	Fri	8181	Russian diplo/intel. Msg 072 on link 45237	FSK 200/1000	(AB)
M42d	4-9	0700	Fri	6837	Russian diplo/intel. Msg 072 on link 45237	FSK 200/1000	(AB)
M42d	12-9	2000	Sat	8142	Russian diplo/intel. Msg 017 on link 24584	FSK 200/1000	(AB)
M42d	12-9	2010	Sat	6839	Russian diplo/intel. Msg 017 on link 24584	FSK 200/1000	(AB)
M42d	12-9	2020	Sat	5271	Russian diplo/intel. Msg 017 on link 24584	FSK 200/1000	(AB)
M42d	13-9	0800	Sun	16274	Russian diplo/intel. Msg 040 on link 45114	FSK 200/1000	(AB)
M42d	13-9	0810	Sun	14753	Russian diplo/intel. Msg 040 on link 45114	FSK 200/1000	(AB)
M42d	13-9	0820	Sun	12216	Russian diplo/intel. Msg 040 on link 45114	FSK 200/1000	(AB)
M42d	13-9	0900	Sun	16339	Russian diplo/intel. Msg 187 on link 45057	FSK 200/1000	(AB)
M42d	13-9	0910	Sun	14704	Russian diplo/intel. Msg 187 on link 45057	FSK 200/1000	(AB)
M42d	13-9	0920	Sun	12215	Russian diplo/intel. Msg 187 on link 45057	FSK 200/1000	(AB)
M42d	13-9	1400	Sun	17545	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	13-9	1410	Sun	15636	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	13-9	1420	Sun	13371	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	13-9	1530	Sun	16251	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB)
M42d	15-9	2300	Tue	11157	Russian diplo/intel. Msg 002 on link 40988	FSK 200/1000	(Dan)
M42d	15-9	2310	Tue	9174	Russian diplo/intel. Msg 002 on link 40988	FSK 200/1000	(Dan)
M42d	15-9	2320	Tue	7918	Russian diplo/intel. Msg 002 on link 40988	FSK 200/1000	(Dan)
M42d	16-9	0700	Wed	8181	Russian diplo/intel.	FSK 200/1000	(AB)
M42d	22-9	0700	Tue	8181	Russian diplo/intel. Msg 032 on link 45137	FSK 200/1000	(AB)
M42d	22-9	0710	Tue	6837	Russian diplo/intel. Msg 032 on link 45137	FSK 200/1000	(AB)
M42d	22-9	1200	Tue	9186	Russian diplo/intel. Msg 032 on link 45137	FSK 200/1000	(AB)

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M42d	22-9	1210	Tue	7671	Russian diplo/intel. Msg 032 on link 45137	FSK 200/1000	(AB)
M42d	22-9	1650	Tue	15846	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB)
M42d	22-9	1700	Tue	13383	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB)
M42d	22-9	1710	Tue	11087	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB)
M42d	23-9	0600	Wed	15928	Russian diplo/intel. Msg 045 on link 32816	FSK 200/1000	(AB)
M42d	23-9	0610	Wed	13501	Russian diplo/intel. Msg 045 on link 32816	FSK 200/1000	(AB)
M42d	23-9	0620	Wed	11107	Russian diplo/intel. Msg 045 on link 32816	FSK 200/1000	(AB)
M42d	23-9	0700	Wed	8181	Russian diplo/intel. Msg 037 on link 45136	FSK 200/1000	(AB)
M42d	23-9	0700	Wed	18522	Russian diplo/intel. Msg 225 on link 16405	FSK 200/1000	(AB)
M42d	23-9	0710	Wed	6837	Russian diplo/intel. Msg 037 on link 45136	FSK 200/1000	(AB)
M42d	23-9	0800	Wed	16322	Russian diplo/intel. Msg 007 on link 45075	FSK 200/1000	(AB)
M42d	23-9	0810	Wed	16276	Russian diplo/intel. Msg 225 on link 16405	FSK 200/1000	(AB)
M42d	23-9	0810	Wed	14614	Russian diplo/intel. Msg 007 on link 45075	FSK 200/1000	(AB)
M42d	23-9	0820	Wed	12186	Russian diplo/intel. Msg 007 on link 45075	FSK 200/1000	(AB)
M42d	23-9	0820	Wed	14771	Russian diplo/intel. Msg 225 on link 16405	FSK 200/1000	(AB)
M42d	23-9	0925	Wed	15816	Russian diplo/intel. Msg 002 on link 20492	FSK 200/1000	(AB)
M42d	23-9	0935	Wed	13472	Russian diplo/intel. Msg 002 on link 20492	FSK 200/1000	(AB)
M42d	23-9	1200	Wed	9186	Russian diplo/intel. Msg 037 on link 45136	FSK 200/1000	(AB)
M42d	23-9	1210	Wed	7671	Russian diplo/intel. Msg 037 on link 45136	FSK 200/1000	(AB)
M42d	23-9	2200	Wed	12183	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(Dan)
M42d	23-9	2210	Wed	10167	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(Dan)
M42d	23-9	2220	Wed	9285	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(Dan)
M42d	24-9	0600	Thu	15928	Russian diplo/intel. Msg 045 on link 32816	FSK 200/1000	(AB)
M42d	24-9	0610	Thu	13501	Russian diplo/intel. Msg 045 on link 32816	FSK 200/1000	(AB)
M42d	24-9	0620	Thu	11107	Russian diplo/intel. Msg 045 on link 32816	FSK 200/1000	(AB)
M42d	24-9	0700	Thu	8181	Russian diplo/intel. Msg 040 on link 45136	FSK 200/1000	(AB)
M42d	24-9	0700	Thu	18522	Russian diplo/intel. Msg 225 on link 16405	FSK 200/1000	(AB)
M42d	24-9	0810	Thu	16276	Russian diplo/intel. Msg 225 on link 16405	FSK 200/1000	(AB)
M42d	24-9	0820	Thu	14771	Russian diplo/intel. Msg 225 on link 16405	FSK 200/1000	(AB)
M42d	24-9	1200	Thu	9186	Russian diplo/intel. Msg 032 on link 45137	FSK 200/1000	(AB)
M42d	24-9	1210	Thu	7671	Russian diplo/intel. Msg 032 on link 45137	FSK 200/1000	(AB)
M42d	24-9	1330	Thu	14394	Russian diplo/intel. Msg 087 in link 49237	FSK 200/1000	(AB)
M42d	24-9	1340	Thu	12192	Russian diplo/intel. Msg 087 in link 49237	FSK 200/1000	(AB)
M42d	24-9	1350	Thu	10527	Russian diplo/intel. Msg 087 in link 49237	FSK 200/1000	(AB)
M42d	25-9	0700	Fri	8181	Russian diplo/intel. Msg 190 on link 45137	FSK 200/1000	(AB)
M42d	25-9	0710	Fri	6837	Russian diplo/intel. Msg 190 on link 45137	FSK 200/1000	(AB)
M42d	26-9	0800	Sat	16274	Russian diplo/intel. Msg 045 on link 45114	FSK 200/1000	(AB/CA2)
M42d	26-9	0810	Sat	14753	Russian diplo/intel. Msg 045 on link 45114	FSK 200/1000	(AB)
M42d	26-9	0820	Sat	12216	Russian diplo/intel. Msg 045 on link 45114	FSK 200/1000	(AB)
M42d	26-9	0900	Sat	16339	Russian diplo/intel.	FSK 200/1000	(CA2)
M42d	27-9	0800	Sun	16274	Russian diplo/intel. Msg 045 on link 45114	FSK 200/1000	(AB)
M42d	27-9	0810	Sun	14753	Russian diplo/intel. Msg 045 on link 45114	FSK 200/1000	(AB)
M42d	27-9	0820	Sun	12216	Russian diplo/intel. Msg 045 on link 45114	FSK 200/1000	(AB)
M42d	27-9	0900	Sun	16339	Russian diplo/intel. Msg 187 on link 45057	FSK 200/1000	(AB)
M42d	27-9	0910	Sun	14704	Russian diplo/intel. Msg 187 on link 45057	FSK 200/1000	(AB)
M42d	27-9	0920	Sun	12215	Russian diplo/intel. Msg 187 on link 45057	FSK 200/1000	(AB)
M42d	27-9	1100	Sun	16172	Russian diplo/intel. Msg 065 on link 36882	FSK 200/1000	(AB)
M42d	28-9	0700	Mon	8181	Russian diplo/intel. Msg 045 on link 45137	FSK 200/1000	(AB)
M42d	28-9	1200	Mon	9186	Russian diplo/intel. Msg 045 on link 45137	FSK 200/1000	(AB)
M42d	28-9	1210	Mon	7671	Russian diplo/intel. Msg 045 on link 45137	FSK 200/1000	(AB)
M42d	29-9	1200	Tue	9186	Russian diplo/intel. Msg 047 on link 45136	FSK 200/1000	(AB)
M42d	29-9	1210	Tue	7671	Russian diplo/intel. Msg 047 on link 45136	FSK 200/1000	(AB)
M42d	29-9	1400	Tue	19339	Russian diplo/intel. Msg 095 on link 32799	FSK 200/1000	(AB/MPJ)
M42d	29-9	1410	Tue	17477	Russian diplo/intel. Msg 095 on link 32799	FSK 200/1000	(AB)
M42d	29-9	1420	Tue	15942	Russian diplo/intel. Msg 095 on link 32799	FSK 200/1000	(AB)
M42d	29-9	1650	Tue	15846	Russian diplo/intel. Msg 145 on link 20501	FSK 200/1000	(AB/MPJ)
M42d	29-9	1700	Tue	13383	Russian diplo/intel. Msg 145 on link 20501	FSK 200/1000	(AB)
M42d	29-9	1710	Tue	11087	Russian diplo/intel. Msg 145 on link 20501	FSK 200/1000	(AB)
M42d	30-9	0600	Wed	15928	Russian diplo/intel. Msg 047 on link 32816	FSK 200/1000	(AB)
M42d	30-9	0610	Wed	13501	Russian diplo/intel. Msg 047 on link 32816	FSK 200/1000	(AB)
M42d	30-9	0620	Wed	11107	Russian diplo/intel. Msg 047 on link 32816	FSK 200/1000	(AB)
M42d	30-9	0700	Wed	8181	Russian diplo/intel. Msg 052 on link 45136	FSK 200/1000	(AB)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M42d	30-9	0800	Wed	16322	Russian diplo/intel. Msg 007 on link 45075	FSK 200/1000	(AB)
M42d	30-9	0810	Wed	14614	Russian diplo/intel. Msg 007 on link 45075	FSK 200/1000	(AB)
M42d	30-9	0820	Wed	12186	Russian diplo/intel. Msg 007 on link 45075	FSK 200/1000	(AB)
M42d	30-9	1200	Wed	9186	Russian diplo/intel. Msg 052 on link 45136	FSK 200/1000	(AB)
M42d	30-9	1210	Wed	7671	Russian diplo/intel. Msg 052 on link 45136	FSK 200/1000	(AB)
M42d	30-9	2200	Wed	12183	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(Dan)
M42d	30-9	2210	Wed	10167	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(Dan)
M42d	30-9	2220	Wed	9285	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(Dan)
M51a	4-9	1141	Fri	6825	FAV22: 35210 WNXHR APMNC ... + La vitesse de textes en clair est legerement superieure a la vitesse annoncee = Vendredi-lepon numÚro 05 2/2 vitesse 960 clair ...	CW	(MPJ)
M89	1-9	0013	Tue	8073	i.p. AR AR 7G AGN NR 0727 CK 132 35 0901 0706 =	CW	(JPL)
M89	1-9	1003	Tue	6825	CQ (x3) DE DP91 (x2) V	CW	(JPL)
M89	1-9	1014	Tue	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	1-9	1016	Tue	10947	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	1-9	1018	Tue	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	1-9	1018	Tue	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	1-9	1020	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	1-9	1020	Tue	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	1-9	1137	Tue	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	1-9	1153	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	1-9	1154	Tue	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	1-9	1154	Tue	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	1-9	1155	Tue	10947	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	1-9	1659	Tue	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	1-9	1700	Tue	3777	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	1-9	1813	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	1-9	1814	Tue	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	1-9	1814	Tue	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	1-9	1815	Tue	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	1-9	1815	Tue	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	1-9	1816	Tue	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	1-9	1817	Tue	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	1-9	1820	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	1-9	1820	Tue	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	1-9	1829	Tue	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	1-9	2257	Tue	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	1-9	2257	Tue	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	2-9	0004	Wed	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	2-9	0020	Wed	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	2-9	0020	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	2-9	0024	Wed	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	2-9	0027	Wed	8060	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	2-9	0029	Wed	5566	i.p. III = 54T7 76DD 4N7A D7N5 UUD4 756A	CW	(JPL)
M89	2-9	0029	Wed	5555	(i.p. 76DD N6UN NAUU D5N5 N34U	CW	(JPL)
M89	2-9	0820	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	2-9	0820	Wed	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	2-9	0825	Wed	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	2-9	0843	Wed	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	2-9	0843	Wed	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	2-9	1030	Wed	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	2-9	1030	Wed	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	2-9	1032	Wed	4860	i.p. DNTD TDUT T7TNU 35DT N7D6 AR HR WK NR 203	CW	(JPL)
M89	2-9	1257	Wed	4737	i.p. AR AR K. R K. R GA	CW	(JPL)
M89	2-9	1258	Wed	4757	i.p. RPT K. QSL 21 AS QR QSL 2059 K. 4RP. K	CW	(JPL)
M89	2-9	1311	Wed	5415	3UTD N33T 3N7D 7N74 (see N&O 216)	CW	(JPL)
M89	2-9	1323	Wed	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	2-9	1544	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	2-9	1546	Wed	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	2-9	1546	Wed	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	2-9	1548	Wed	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	2-9	1620	Wed	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	2-9	1620	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M89	5-9	0010	Sat	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	5-9	0028	Sat	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	5-9	0958	Sat	8948	CQ (x3) DE DP91 (x2) V NIL SK GB //6825	CW	(JPL)
M89	5-9	0958	Sat	6825	CQ (x3) DE DP91 (x2) V HR NIL SK GB //8948)	CW	(JPL)
M89	5-9	1017	Sat	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	5-9	1017	Sat	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5-9	1018	Sat	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	5-9	1020	Sat	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	5-9	1023	Sat	6825	i.p. N63U NAUA N5AA NNNA NATA TTT3 T74U (see N&O 216)	CW	(JPL)
M89	5-9	1027	Sat	6819	i.p. R HR WK NR 51 K	CW	(JPL)
M89	5-9	1043	Sat	8060	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	5-9	1044	Sat	5335	i.p. VV F8TZ DE DORO K. R HR (see N&O 216)	CW	(JPL)
M89	5-9	1108	Sat	6858	i.p. XB1L DE CQPZ R QSA 2 QSA ? K (see N&O 216)	CW	(JPL)
M89	5-9	1120	Sat	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	5-9	1120	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	5-9	1122	Sat	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	5-9	1122	Sat	6793	i.p. UGT COMM = 057/6157/6878/09/05/1955/883/A/80/23 AR	CW	(JPL)
M89	5-9	1122	Sat	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	5-9	1124	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5-9	1129	Sat	8073	XSV85 voice callup	CW	(JPL)
M89	5-9	1130	Sat	8073	XSV85 4+4 QPSK 75/1000 LSB data	CW	(JPL)
M89	5-9	1135	Sat	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	5-9	1305	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5-9	1307	Sat	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5-9	1307	Sat	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	5-9	1310	Sat	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	5-9	1310	Sat	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5-9	1320	Sat	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	5-9	1320	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	5-9	1329	Sat	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	5-9	1335	Sat	5324	i.p. N3U4 764N 643U 3T6A 77NU A665	CW	(JPL)
M89	5-9	1346	Sat	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5-9	1355	Sat	3744	i.p. N63A 7T5N (Other station on 3742)	CW	(JPL)
M89	5-9	1358	Sat	3742	i.p. RPT 79W K. R QSL 2200 K. QSL 2200 K. ... QSB K	CW	(JPL)
M89	5-9	1403	Sat	5380	i.p. A744 DNA7 3U5N A5TT 54UU	CW	(JPL)
M89	5-9	1405	Sat	5462	i.p. 5125 BT ACD1/AFD2 AR K (see N&O 216)	CW	(JPL)
M89	5-9	1514	Sat	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5-9	1515	Sat	5260	i.p. OK ALL OK AGN AGN OK ADD (see N&O 216)	CW	(JPL)
M89	5-9	1532	Sat	5323	i.p. N35A ANNN UT.A 4377 46A4 III NAAT TADA (Cont'd)	CW	(JPL)
M89	6-9	1304	Sun	5388	i.p.	CW	(JPL)
M89	6-9	1335	Sun	7602	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	6-9	1335	Sun	5801	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	6-9	1338	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	6-9	1339	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	6-9	1339	Sun	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	6-9	1342	Sun	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	6-9	1345	Sun	4285	i.p. 773 355 373 4.. N.D 4... (see N&O 216)	CW	(JPL)
M89	6-9	1707	Sun	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	6-9	1707	Sun	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	6-9	1712	Sun	5288	i.p. R RPT 81W 6DUN 6DUN K (see N&O 216)	CW	(JPL)
M89	6-9	2141	Sun	6871	i.p. 6NTA TAUN 7T4U 3NA4 637U U57A (see N&O 216)	CW	(JPL)
M89	6-9	2150	Sun	8060	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	7-9	0133	Mon	10947	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	7-9	0148	Mon	7602	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	7-9	0158	Mon	8948	CQ (x3) DE DP91 (x2) V HR NIL SK GB //6825	CW	(JPL)
M89	7-9	0159	Mon	6825	CQ (x3) DE DP91 (x2) V //8948)	CW	(JPL)
M89	7-9	0802	Mon	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	7-9	0802	Mon	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	7-9	0811	Mon	10947	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	7-9	0813	Mon	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	7-9	0813	Mon	6793	V M8JF (x3) DE RIS9 (x2) //8060)	CW	(JPL)
M89	7-9	0814	Mon	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M89	7-9	0820	Mon	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	7-9	0820	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	7-9	0951	Mon	10947	i.p. LZ057A0/6781/9082 AR	CW	(JPL)
M89	7-9	0957	Mon	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	7-9	1008	Mon	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	7-9	1008	Mon	5500	i.p. VV UGT COMM = =	CW	(JPL)
M89	7-9	1013	Mon	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	7-9	1013	Mon	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	7-9	1020	Mon	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	7-9	1020	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	7-9	1138	Mon	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	7-9	1205	Mon	5588	i.p. /4296/20.36/237NR/6437 =	CW	(JPL)
M89	7-9	1208	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	7-9	1212	Mon	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	7-9	1216	Mon	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	7-9	1218	Mon	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	7-9	1218	Mon	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	7-9	1220	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	7-9	1220	Mon	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	7-9	1555	Mon	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	7-9	1600	Mon	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	7-9	1601	Mon	5801	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	7-9	2333	Mon	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	7-9	2344	Mon	8060	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	8-9	0006	Tue	8073	V BNGC (x3) DE XSV85 (x2) see N&O 216)	CW	(JPL)
M89	8-9	0020	Tue	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	8-9	0020	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	8-9	0024	Tue	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	8-9	0031	Tue	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	8-9	0217	Tue	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	8-9	0217	Tue	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	8-9	0920	Tue	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	8-9	0920	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	8-9	0921	Tue	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	8-9	0922	Tue	7582	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	8-9	0923	Tue	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	8-9	0923	Tue	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8-9	0926	Tue	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	8-9	0938	Tue	5340	i.p. 7574 UADA 57DD 437D U6U3 III III = 337U 5A7D A3AD	CW	(JPL)
M89	8-9	0942	Tue	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	8-9	0942	Tue	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	8-9	0946	Tue	6936	i.p. DP7691 W = 35II 35W = TA3A II (see N&O 216)	CW	(JPL)
M89	8-9	1001	Tue	8948	CQ (x3) DE DP91 (x2) V NIL SK GB GB //6825	CW	(JPL)
M89	8-9	1001	Tue	6825	CQ (x3) DE DP91 (x2) V 8A 8A HR NIL SK GB //8948	CW	(JPL)
M89	8-9	1120	Tue	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	8-9	1120	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	8-9	1127	Tue	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	8-9	1137	Tue	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	8-9	1202	Tue	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	8-9	1205	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	8-9	1206	Tue	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	8-9	1206	Tue	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	8-9	1207	Tue	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	8-9	1316	Tue	4111	i.p. 3NTN A5D4 UT77	CW	(JPL)
M89	8-9	1416	Tue	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	8-9	1427	Tue	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	8-9	1427	Tue	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	8-9	1429	Tue	3340	(i.p. 7UUT U4ND 64NN NUA.	CW	(JPL)
M89	8-9	1435	Tue	3676	i.p. N5U6 553N 75UA 5NNN (see N&O 216)	CW	(JPL)
M89	9-9	1637	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	9-9	1640	Wed	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	9-9	1642	Wed	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M89	9-9	1642	Wed	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	9-9	1652	Wed	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	10-9	0006	Thu	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	10-9	0919	Thu	9153	i.p. 773 353 U46 35A 4UT 445 4D6 3D3 N3D 3DU TAU (see N&O 216)	CW	(JPL)
M89	10-9	0919	Thu	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10-9	0919	Thu	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	10-9	0920	Thu	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10-9	0920	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10-9	0923	Thu	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	10-9	0925	Thu	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	10-9	0939	Thu	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10-9	0939	Thu	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10-9	1040	Thu	7810	i.p. N55U TTT5 7D55 N3D4 III III = N63U TTT4 N535 NNUU NAAU (Cont'ed)	CW	(JPL)
M89	10-9	1141	Thu	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	10-9	1440	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	10-9	1442	Thu	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	10-9	1442	Thu	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	10-9	1444	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	10-9	1444	Thu	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	10-9	1446	Thu	4047	i.p. III = A3ND 5576 4T5T	CW	(JPL)
M89	10-9	1449	Thu	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	10-9	1456	Thu	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	10-9	2229	Thu	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	11-9	0204	Fri	6825	CQ (x3) DE DP91 (x2) V HR NIL SK GB //Not monitored	CW	(JPL)
M89	11-9	0920	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	11-9	0920	Fri	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	11-9	0925	Fri	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	11-9	0926	Fri	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	11-9	0927	Fri	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	11-9	0927	Fri	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	11-9	0928	Fri	9153	i.p. 467 N3D 445 4D6 75D 4D3 3AN 353 (see N&O 216)	CW	(JPL)
M89	11-9	0955	Fri	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	11-9	0955	Fri	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	11-9	0957	Fri	8948	CQ (x3) DE DP91 (see N&O 216)	CW	(JPL)
M89	11-9	1120	Fri	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	11-9	1120	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	11-9	1125	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	11-9	1126	Fri	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	11-9	1126	Fri	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	11-9	1140	Fri	8073	V BNGC (x3) DE XSV85 (x2) (Cont'd)	CW	(JPL)
M89	11-9	1345	Fri	7621	i.p. 65D6 III = U5UA N3DN U67T 3A34 6NU6 (see N&O 216)	CW	(JPL)
M89	11-9	1359	Fri	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	11-9	1400	Fri	5197	i.p. 543T 6355 NN43 435U 3D5N 44U4 (see N&O 216)	CW	(JPL)
M89	11-9	1404	Fri	4832	CQ (x3) DE DP4091 (x2) V NIL SK GB	CW	(JPL)
M89	11-9	1413	Fri	3870	i.p. 6D3A 5A6D 753N 4T5N 6A7T III = 5N3U 5A6T AS	CW	(JPL)
M89	11-9	1413	Fri	4737	i.p. NR 215 CK 91 25 0911 2210 K (see N&O 216)	CW	(JPL)
M89	11-9	1423	Fri	3821	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	11-9	1429	Fri	6636	i.p. UTTTU NAA6 T454 W W (see N&O 216)	CW	(JPL)
M89	11-9	1436	Fri	5533	i.p. NU5U AUD7 4TT3 745	CW	(JPL)
M89	12-9	1720	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	12-9	1720	Sat	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	12-9	1727	Sat	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	12-9	1728	Sat	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	12-9	1728	Sat	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	12-9	1729	Sat	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	12-9	1736	Sat	3821	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	12-9	2302	Sat	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	12-9	2302	Sat	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	12-9	2305	Sat	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	13-9	0935	Sun	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	13-9	0935	Sun	9131	QRW L1... 1900 COMM 48.. AR AGN //6421	CW	(JPL)
M89	13-9	0943	Sun	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M89	13-9	0944	Sun	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	13-9	0944	Sun	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	13-9	0958	Sun	6825	CQ (x3) DE DP91 (x2) V NIL SK GB	CW	(JPL)
M89	13-9	1325	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	13-9	1326	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	13-9	1326	Sun	3777	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	13-9	1328	Sun	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	13-9	1328	Sun	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	13-9	1329	Sun	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	13-9	2206	Sun	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	13-9	2206	Sun	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	13-9	2207	Sun	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	13-9	2209	Sun	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	13-9	2210	Sun	3333	i.p. CJK2/HGSA8 AR K R QSL 0611 K (see N&O 216)	CW	(JPL)
M89	13-9	2220	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	13-9	2220	Sun	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	14-9	1429	Mon	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	14-9	1435	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	14-9	1436	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	14-9	1436	Mon	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	14-9	1437	Mon	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	14-9	1438	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	14-9	1438	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	14-9	1439	Mon	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	14-9	1742	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	14-9	1743	Mon	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	14-9	1743	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	14-9	1744	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	14-9	1744	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	14-9	1745	Mon	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	14-9	1746	Mon	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	14-9	2125	Mon	7602	DKG6 de 3A7D V	CW	(Brit)
M89	14-9	2241	Mon	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	14-9	2243	Mon	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	14-9	2245	Mon	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	14-9	2245	Mon	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	16-9	2147	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	16-9	2149	Wed	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	16-9	2151	Wed	4532	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	16-9	2151	Wed	8060	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	16-9	2151	Wed	6793	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	16-9	2157	Wed	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	16-9	2313	Wed	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	16-9	2315	Wed	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	16-9	2316	Wed	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	16-9	2316	Wed	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	16-9	2320	Wed	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	16-9	2320	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	17-9	0007	Thu	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	17-9	0811	Thu	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	17-9	0811	Thu	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	17-9	0814	Thu	6793	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	17-9	0820	Thu	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	17-9	0820	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	17-9	1120	Thu	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	17-9	1120	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	17-9	1122	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	17-9	1124	Thu	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	17-9	1126	Thu	6793	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	17-9	1126	Thu	4532	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	17-9	1126	Thu	8060	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	17-9	1127	Thu	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M89	17-9	1127	Thu	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	17-9	1170	Thu	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	17-9	1517	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	17-9	1519	Thu	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	17-9	1519	Thu	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	17-9	1520	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	17-9	1520	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	17-9	1521	Thu	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	17-9	1522	Thu	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	17-9	1526	Thu	6666	T457 D7AN 35U4 TND4 (see N&O 216)	CW	(JPL)
M89	17-9	1912	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	17-9	1913	Thu	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	17-9	1920	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	17-9	1920	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	17-9	1929	Thu	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	17-9	2116	Thu	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	17-9	2117	Thu	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	18-9	0742	Fri	10947	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	18-9	0958	Fri	6792	i.p. 34N6 4N7D 334A 456T 76T3 (see N&O 216)	CW	(JPL)
M89	18-9	1005	Fri	6793	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	18-9	1015	Fri	6760	V U2MD (x3) DE 3PWG (x2)	CW	(JPL)
M89	18-9	1020	Fri	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	18-9	1020	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	18-9	1023	Fri	9131	V DKSL (x3) DE ALSK (x2) //10947	CW	(JPL)
M89	18-9	1023	Fri	10947	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	18-9	1023	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	18-9	1030	Fri	5500	i.p. R QSL 6 DE HR E QR. DG1Z ? (see N&O 216)	CW	(JPL)
M89	18-9	1320	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	18-9	1320	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	18-9	1325	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	18-9	1328	Fri	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	18-9	1330	Fri	5171	i.p. AR K. QSL 2132 K. R SK K. R R /108 K. R RPT K. NR 128 K	CW	(JPL)
M89	18-9	1702	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	18-9	1705	Fri	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	18-9	1705	Fri	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	18-9	1708	Fri	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	18-9	1709	Fri	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	18-9	1720	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	18-9	1720	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	18-9	1729	Fri	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	18-9	1741	Fri	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	18-9	1822	Fri	6840	VVV Q2M Q2M Q2M DE NYZ NYZ	CW	(PPA)
M89	18-9	1919	Fri	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	18-9	1920	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	18-9	1920	Fri	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	18-9	1923	Fri	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	18-9	1924	Fri	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	18-9	1924	Fri	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	18-9	1929	Fri	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	18-9	2220	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	19-9	1001	Sat	6825	CQ (x3) DE DP91 (x2) V (see N&O 216)	CW	(JPL)
M89	19-9	1016	Sat	9131	V DKSL (x3) DE ALSK (x2) //10947	CW	(JPL)
M89	19-9	1016	Sat	10947	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	19-9	1019	Sat	10180	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	19-9	1020	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	19-9	1020	Sat	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	19-9	1025	Sat	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	19-9	1027	Sat	4444	i.p. 7U 5D4T AR	CW	(JPL)
M89	19-9	1254	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	19-9	1257	Sat	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	19-9	1259	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	19-9	1259	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M89	19-9	1456	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	19-9	1458	Sat	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	19-9	1459	Sat	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	19-9	1500	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	19-9	1500	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	19-9	2315	Sat	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	19-9	2315	Sat	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	19-9	2320	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	19-9	2320	Sat	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	19-9	2343	Sat	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	20-9	0004	Sun	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	20-9	0020	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	20-9	0020	Sun	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	20-9	0026	Sun	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	20-9	0029	Sun	5555	i.p. VV Z6F7. 4 SLL NR 3 CK 20 . 005 05 476. 476 S4 47DD ZZGZGF55..FF. 775... 47G7G7G E E	CW	(JPL)
M89	20-9	0200	Sun	6825	CQ (x3) DE DP91 (x2) V	CW	(JPL)
M89	20-9	0220	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	20-9	0220	Sun	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	20-9	1006	Sun	6825	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
M89	20-9	1011	Sun	6793	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	20-9	1015	Sun	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	20-9	1017	Sun	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	20-9	1017	Sun	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	20-9	1019	Sun	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	20-9	1020	Sun	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	20-9	1020	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	20-9	1111	Sun	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	20-9	1112	Sun	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	20-9	1113	Sun	5500	V DNPE (x3) DE QV5B (x2) Note: Slight change in R/S - Sending DNPE vice 7NPE.	CW	(JPL)
M89	20-9	1116	Sun	8888	V GKSQ (x3) DE YSJC (x2) (see N&O 216)	CW	(JPL)
M89	20-9	1136	Sun	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	20-9	1158	Sun	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	20-9	1525	Sun	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	20-9	1527	Sun	3757	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	20-9	1529	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	20-9	1729	Sun	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	20-9	1731	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	20-9	1733	Sun	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	20-9	1734	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3777 and 3757	CW	(JPL)
M89	20-9	1734	Sun	3757	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	20-9	1734	Sun	3777	V M8JF (x3) DE RIS9 (x2) //3757 and 4532	CW	(JPL)
M89	20-9	1737	Sun	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	20-9	1737	Sun	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	20-9	1920	Sun	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	20-9	1920	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	20-9	1925	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	20-9	1926	Sun	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	20-9	1927	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3777 and 3757	CW	(JPL)
M89	20-9	1927	Sun	3777	V M8JF (x3) DE RIS9 (x2) //3757 and 4532	CW	(JPL)
M89	20-9	1927	Sun	3757	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	20-9	1928	Sun	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	20-9	1929	Sun	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	20-9	2348	Sun	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	20-9	2348	Sun	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	20-9	2351	Sun	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	20-9	2351	Sun	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	21-9	0005	Mon	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	21-9	0019	Mon	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	21-9	0019	Mon	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	21-9	0020	Mon	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	21-9	0020	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M89	21-9	0157	Mon	6825	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
M89	21-9	1002	Mon	6825	CQ (x3) DE DP91 (x2) V	CW	(JPL)
M89	21-9	1016	Mon	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	21-9	1053	Mon	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	21-9	1053	Mon	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	21-9	1054	Mon	10180	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	21-9	1055	Mon	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	21-9	1055	Mon	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	21-9	1102	Mon	5588	V MW3D DE 2SLC QSY QSY QSY Switches to 3330	CW	(JPL)
M89	21-9	1102	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	21-9	1111	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	21-9	1111	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	21-9	1113	Mon	4532	V M8JF (x3) DE RIS9 (x2) //8060 and 6793	CW	(JPL)
M89	21-9	1113	Mon	6793	V M8JF (x3) DE RIS9 (x2) //8060 and 4532	CW	(JPL)
M89	21-9	1113	Mon	8060	V M8JF (x3) DE RIS9 (x2) //6793 and 4532	CW	(JPL)
M89	21-9	1120	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	21-9	1120	Mon	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	21-9	1135	Mon	8073	V BNGC (x3) DE XSV85 (x2)	CW	(JPL)
M89	21-9	1142	Mon	7777	i.p. IEC = IEC IEC = 2189 KR. EEEEE HR NR 05KRS HR	CW	(JPL)
M89	21-9	1152	Mon	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	21-9	1341	Mon	6566	i.p. QSL ? K. R K H VV 8700 DE ACLG K R DE SPY7 K	CW	(JPL)
M89	21-9	1350	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	21-9	1351	Mon	3435	i.p. AR K SK GB	CW	(JPL)
M89	21-9	1356	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	21-9	1357	Mon	3871	i.p. AN7U 4DAN 7UD3 4T64 3DU5 III AR	CW	(JPL)
M89	21-9	1510	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	21-9	1512	Mon	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	21-9	1512	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	21-9	1513	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	21-9	1513	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	21-9	1514	Mon	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	21-9	1515	Mon	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	21-9	1515	Mon	4444	= 66T3 D464 D73 4D75 5EDN3456T74D5 D734D 75T6 456N A3AA D5D3 UAD5 NT73 D337	CW	(JPL)
M89	21-9	1518	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	21-9	1518	Mon	3821	V DKSL (x3) DE ALSK (x2) /5644	CW	(JPL)
M89	21-9	1520	Mon	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	21-9	1520	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	21-9	1529	Mon	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	21-9	1720	Mon	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	21-9	1720	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	21-9	1721	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	21-9	1722	Mon	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	21-9	1722	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	21-9	1723	Mon	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	21-9	1724	Mon	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	21-9	1729	Mon	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	21-9	1735	Mon	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	21-9	1735	Mon	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	22-9	0007	Tue	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	22-9	0020	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	22-9	0020	Tue	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	22-9	0022	Tue	6793	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	22-9	0025	Tue	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	22-9	0025	Tue	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	22-9	0026	Tue	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	22-9	0159	Tue	6825	CQ (x3) DE DP91 (x2) V HR NIL SK GB	CW	(JPL)
M89	22-9	1034	Tue	6937	i.p. MSG NR 034.AR K3 EX .922.835 = W RM 3.MK.. OK =	CW	(JPL)
M89	22-9	1040	Tue	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	22-9	1045	Tue	6793	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	22-9	1047	Tue	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	22-9	1047	Tue	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	22-9	1050	Tue	4532	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrl
M89	22-9	1050	Tue	8060	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	22-9	1050	Tue	6793	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	22-9	1052	Tue	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	22-9	1059	Tue	5588	i.p. NR 088 CK 301 44 0922 1900 = ...N.756 UT7D D3UT A5U4 6TU7 ADTU 6UTN TT6D TTT5 (Cont'd)	CW	(JPL)
M89	22-9	1107	Tue	5555	i.p. AR K. RPT 27 K. HR RPT 28 DWK R R HR RPT 28W K	CW	(JPL)
M89	22-9	1120	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	22-9	1120	Tue	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	22-9	1136	Tue	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	22-9	1512	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	22-9	1514	Tue	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	22-9	1514	Tue	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	22-9	1515	Tue	3757	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	22-9	1515	Tue	6793	V M8JF (x3) DE RIS9 (x2) //4532 and 3757	CW	(JPL)
M89	22-9	1515	Tue	4532	V M8JF (x3) DE RIS9 (x2) //3757 and 6793	CW	(JPL)
M89	22-9	1520	Tue	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	22-9	1520	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	22-9	2020	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	22-9	2020	Tue	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	22-9	2026	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	22-9	2028	Tue	4532	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	22-9	2028	Tue	3777	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	23-9	1002	Wed	6825	CQ (x3) DE DP91 (x2) V	CW	(JPL)
M89	23-9	1010	Wed	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	23-9	1010	Wed	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	23-9	1012	Wed	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	23-9	1012	Wed	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	23-9	1012	Wed	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	23-9	1013	Wed	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	23-9	1024	Wed	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	23-9	1024	Wed	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	23-9	1027	Wed	8826	i.p. UDU7 67AU 36N. 3DN3 7AUN 7UTU	CW	(JPL)
M89	23-9	1031	Wed	7609	i.p. 75DN TTTT 57DA 5ADD 7743 III BT BT 3A57 DA7A UTA6	CW	(JPL)
M89	23-9	2035	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	23-9	2038	Wed	3821	V DKSL (x3) DE ALSK (x2) //4532	CW	(JPL)
M89	23-9	2038	Wed	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	24-9	0716	Thu	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	24-9	0716	Thu	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	24-9	0758	Thu	6793	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	24-9	0949	Thu	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	24-9	0949	Thu	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	24-9	1010	Thu	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	24-9	1011	Thu	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	24-9	1011	Thu	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	24-9	1013	Thu	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	24-9	1020	Thu	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	24-9	1020	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	24-9	1111	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	24-9	1113	Thu	4532	V M8JF (x3) DE RIS9 (x2) //8060 and 6793	CW	(JPL)
M89	24-9	1113	Thu	6793	V M8JF (x3) DE RIS9 (x2) //8060 and 4532	CW	(JPL)
M89	24-9	1113	Thu	8060	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	24-9	1120	Thu	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	24-9	1120	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	24-9	1137	Thu	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	24-9	1149	Thu	4952	i.p. AR K. R R R GA	CW	(JPL)
M89	24-9	1151	Thu	4883	i.p. 05 05 05 05	CW	(JPL)
M89	24-9	1156	Thu	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	24-9	1420	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	24-9	1420	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	24-9	1425	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	24-9	1427	Thu	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	24-9	1428	Thu	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M89	24-9	1430	Thu	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	24-9	1434	Thu	5177	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	24-9	1440	Thu	5742	i.p. 37U3 5UAD UNAD T63N 6TD4 III BT BT N7U3 6334 D6AU (Cont'd)	CW	(JPL)
M89	24-9	1630	Thu	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	24-9	1651	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	24-9	1652	Thu	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	24-9	1653	Thu	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	24-9	1654	Thu	3821	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	24-9	1734	Thu	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	24-9	1925	Thu	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	24-9	1926	Thu	3821	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	24-9	1927	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3797	CW	(JPL)
M89	24-9	1927	Thu	3797	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	24-9	1931	Thu	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	24-9	2117	Thu	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	24-9	2118	Thu	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	24-9	2119	Thu	4532	V M8JF (x3) DE RIS9 (x2) //3797	CW	(JPL)
M89	24-9	2119	Thu	3797	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	24-9	2120	Thu	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	24-9	2120	Thu	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	24-9	2256	Thu	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	24-9	2301	Thu	8060	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	25-9	0005	Fri	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	25-9	0117	Fri	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	25-9	0117	Fri	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	25-9	0120	Fri	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	25-9	0120	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	25-9	1013	Fri	10180	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	25-9	1115	Fri	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	25-9	1115	Fri	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	25-9	1116	Fri	8060	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	25-9	1116	Fri	4532	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	25-9	1120	Fri	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	25-9	1120	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	25-9	1138	Fri	8073	V BNGC (x3) DE XSV85 (x2) (Cont'd) (see N&O 216)	CW	(JPL)
M89	25-9	1531	Fri	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	25-9	1531	Fri	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	25-9	1540	Fri	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	25-9	1542	Fri	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	25-9	1543	Fri	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	25-9	1544	Fri	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	25-9	1730	Fri	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	25-9	2320	Fri	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	25-9	2320	Fri	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	25-9	2325	Fri	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	25-9	2325	Fri	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	25-9	2349	Fri	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	25-9	2349	Fri	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	26-9	0005	Fri	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	26-9	0036	Sat	9131	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	26-9	1009	Sat	6818	VV 8GT5 DE 7G6Y K (see N&O 216)	CW	(JPL)
M89	26-9	1044	Sat	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	26-9	1044	Sat	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	26-9	1048	Sat	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	26-9	1048	Sat	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	26-9	1115	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	26-9	1117	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	26-9	1117	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	26-9	1118	Sat	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	26-9	1119	Sat	6793	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	26-9	1119	Sat	4532	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	26-9	1119	Sat	8060	V M8JF (x3) DE RIS9 (x2) //6793 and 4532	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M89	26-9	1120	Sat	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	26-9	1120	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	26-9	1124	Sat	4444	i.p. 7N6N D5U6 654T A47T NDD6 657T	CW	(JPL)
M89	26-9	1142	Thu	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	26-9	1320	Sat	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	26-9	1320	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	26-9	1327	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	26-9	1327	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	26-9	1329	Sat	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	26-9	1342	Sat	3553	VV LKB5 DE 6IVI K (see N&O 216)	CW	(JPL)
M89	26-9	1620	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	26-9	1620	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	26-9	1620	Sat	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	26-9	1624	Sat	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	26-9	1625	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	26-9	1625	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	26-9	1627	Sat	3797	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	26-9	1627	Sat	4532	V M8JF (x3) DE RIS9 (x2) //3797	CW	(JPL)
M89	26-9	1628	Sat	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	26-9	1630	Sat	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	26-9	1748	Sat	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	26-9	2107	Sat	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	26-9	2108	Sat	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	26-9	2109	Sat	4532	V M8JF (x3) DE RIS9 (x2) //3797	CW	(JPL)
M89	26-9	2109	Sat	3797	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	26-9	2110	Sat	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	26-9	2110	Sat	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	26-9	2111	Sat	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	26-9	2120	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	26-9	2120	Sat	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	26-9	2130	Sat	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	26-9	2137	Sat	4131	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	26-9	2313	Sat	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	26-9	2314	Sat	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	26-9	2314	Sat	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	26-9	2316	Sat	9131	V DKSL (x3) DE ALSK (x2) //10947	CW	(JPL)
M89	26-9	2316	Sat	10947	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	26-9	2320	Sat	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	26-9	2320	Sat	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	27-9	0007	Sun	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	27-9	0020	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	27-9	0020	Sun	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	27-9	0026	Sun	10947	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	27-9	0026	Sun	9131	V DKSL (x3) DE ALSK (x2) //10947	CW	(JPL)
M89	27-9	0028	Sun	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	27-9	0031	Sun	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	27-9	1126	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	27-9	1127	Sun	9131	V DKSL (x3) DE ALSK (x2) //10947	CW	(JPL)
M89	27-9	1127	Sun	10947	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	27-9	1128	Sun	4532	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	27-9	1128	Sun	6793	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	27-9	1128	Sun	8060	V M8JF (x3) DE RIS9 (x2) //6793 and 4532	CW	(JPL)
M89	27-9	1129	Sun	8110	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	27-9	1143	Sun	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	27-9	1155	Sun	10180	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	27-9	1155	Sun	5801	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	27-9	1700	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	27-9	1701	Sun	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	27-9	1702	Sun	3797	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	27-9	1702	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3797	CW	(JPL)
M89	27-9	1704	Sun	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	27-9	1704	Sun	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M89	27-9	1706	Sun	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	27-9	1720	Sun	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	27-9	1720	Sun	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	27-9	1730	Sun	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	27-9	1945	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	27-9	1947	Sun	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	27-9	1947	Sun	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	27-9	1948	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3797	CW	(JPL)
M89	27-9	1948	Sun	3797	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	27-9	1949	Sun	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	27-9	1949	Sun	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	27-9	1950	Sun	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	27-9	2111	Sun	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	27-9	2112	Sun	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	27-9	2113	Sun	3797	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	27-9	2113	Sun	4532	V M8JF (x3) DE RIS9 (x2) //3797	CW	(JPL)
M89	27-9	2114	Sun	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	27-9	2114	Sun	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	27-9	2247	Sun	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	27-9	2247	Sun	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	27-9	2249	Sun	6793	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	28-9	1020	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	28-9	1020	Mon	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	28-9	1022	Mon	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	28-9	1024	Mon	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	28-9	1027	Mon	8888	i.p. 3D4 355N 4D67 5T47 6AD7 765U DT67 N47A 3D64	CW	(JPL)
M89	28-9	1033	Mon	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	28-9	1034	Mon	4532	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	28-9	1034	Mon	6793	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	28-9	1114	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	28-9	1120	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	28-9	1120	Mon	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	28-9	1138	Mon	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	28-9	1845	Mon	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	28-9	1847	Mon	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	28-9	1847	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	28-9	1848	Mon	4532	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	28-9	1849	Mon	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	28-9	1850	Mon	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	28-9	2219	Mon	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	28-9	2219	Mon	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	28-9	2220	Mon	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	28-9	2220	Mon	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	28-9	2222	Mon	6793	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	28-9	2225	Mon	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	29-9	0005	Tue	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	29-9	0406	Tue	10180	DKG6 de 3A7D V	CW	(CA2)
M89	29-9	0520	Tue	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //N/H	CW	(JPL)
M89	29-9	1002	Tue	6793	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	29-9	1010	Tue	9131	V DKSL (x3) DE ALSK (x2) //10947	CW	(JPL)
M89	29-9	1010	Tue	10947	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	29-9	1012	Tue	8110	i.p. VV TC2 7G NR 09/CCK CK 25 37 0929 0145 (see N&O 216)	CW	(JPL)
M89	29-9	1022	Tue	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	29-9	1026	Tue	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	29-9	1028	Tue	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	29-9	1028	Tue	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	29-9	1117	Tue	5644	i.p. 9A0/..81/6314 AR HR WK NR 3.. K	CW	(JPL)
M89	29-9	1120	Tue	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	29-9	1120	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	29-9	1138	Tue	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	29-9	1417	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	29-9	1418	Tue	4532	V M8JF (x3) DE RIS9 (x2) //3797	CW	(JPL)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
M89	29-9	1418	Tue	3797	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	29-9	1419	Tue	3821	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	29-9	1419	Tue	5644	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	29-9	1420	Tue	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	29-9	1420	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	29-9	1422	Tue	5500	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	29-9	1430	Tue	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	29-9	1918	Tue	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	29-9	1919	Tue	3642	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	29-9	1919	Tue	7602	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	29-9	1920	Tue	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	29-9	1920	Tue	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	29-9	1923	Tue	3797	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	29-9	1923	Tue	4532	V M8JF (x3) DE RIS9 (x2) //3797	CW	(JPL)
M89	29-9	2246	Tue	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	29-9	2246	Tue	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	30-9	0005	Wed	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	30-9	0947	Wed	6421	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	30-9	0947	Wed	9131	i.p. RMKS TO 660/6.30 = COMM	CW	(JPL)
M89	30-9	0953	Wed	9153	i.p. N3D 3D. ... (see N&O 216)	CW	(JPL)
M89	30-9	1005	Wed	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	30-9	1009	Wed	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	30-9	1009	Wed	6793	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	30-9	1010	Wed	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	30-9	1045	Wed	6793	M8JF de RIS9 for 5 minutes, DIM5701/ MD31/ DILM1 ...	CW	(EW)
M89	30-9	1120	Wed	10640	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	30-9	1120	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	30-9	1125	Wed	5588	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	30-9	1126	Wed	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	30-9	1127	Wed	6793	i.p. 6878/09/30/1955/882/A/83/23 AR	CW	(JPL)
M89	30-9	1127	Wed	8060	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	30-9	1140	Wed	8073	V BNGC (x3) DE XSV85 (x2) (see N&O 216)	CW	(JPL)
M89	30-9	1738	Wed	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	30-9	1740	Wed	5644	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	30-9	1745	Wed	3642	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	30-9	1750	Wed	3818	V U2MD (x3) DE 3PWG (x2)	CW	(JPL)
M89	30-9	1812	Wed	3821	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	30-9	1814	Wed	3330	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	30-9	1820	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	30-9	1820	Wed	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	30-9	1830	Wed	4720	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	30-9	2317	Wed	9131	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	30-9	2319	Wed	8060	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	30-9	2320	Wed	4860	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	30-9	2320	Wed	6840	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	30-9	2324	Wed	4225	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89d	2-9	0001	Wed	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	5-9	0001	Sat	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	7-9	1131	Mon	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	8-9	0002	Tue	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	8-9	1132	Tue	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	10-9	0002	Tue	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	10-9	1136	Tue	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	11-9	1131	Tue	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)

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M89d	17-9	0002	Thu	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	17-9	1131	Thu	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	18-9	1034	Fri	5500	4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	20-9	0002	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	20-9	1130	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	21-9	0002	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	21-9	1131	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	22-9	0002	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	22-9	1132	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	24-9	1131	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	25-9	0002	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	25-9	1131	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	26-9	0001	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	26-9	1132	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	27-9	0001	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	27-9	1131	Sun	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	28-9	1130	Mon	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	29-9	0001	Tue	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	29-9	1130	Tue	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	30-9	0001	Wed	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89d	30-9	1130	Wed	8073	XSV85 4+4 QPSK 75/1000 LSB data	4+4 QPSK 75/1000 LSB	(JPL)
M89v	2-9	0001	Wed	8073	XSV85 voice callup	USB	(JPL)
M89v	5-9	0001	Sat	8073	XSV85 voice callup	USB	(JPL)
M89v	7-9	1130	Mon	8073	XSV85 voice callup	USB	(JPL)
M89v	8-9	0001	Tue	8073	XSV85 voice callup	USB	(JPL)
M89v	8-9	1130	Tue	8073	XSV85 voice traffic	USB	(JPL)
M89v	10-9	0001	Tue	8073	XSV85 voice callup	USB	(JPL)
M89v	10-9	1136	Tue	8073	XSV85 voice callup	USB	(JPL)
M89v	11-9	1130	Tue	8073	XSV85 voice callup	USB	(JPL)
M89v	11-9	1212	Tue	8073	XSV85 voice traffic	USB	(JPL)
M89v	17-9	0001	Thu	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	17-9	1130	Thu	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	17-9	1201	Thu	8073	XSV85 voice traffic, male operator	USB	(JPL)
M89v	18-9	1031	Fri	5500	voice traffic	USB	(JPL)
M89v	20-9	0001	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	20-9	0022	Sun	8073	XSV85 voice traffic	USB	(JPL)
M89v	20-9	1130	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	21-9	0001	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	21-9	1130	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	22-9	0001	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	22-9	1129	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	24-9	1130	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	25-9	0001	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	25-9	1130	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)

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M89v	26-9	0001	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	26-9	0031	Sun	8073	XSV85 voice traffic	USB	(JPL)
M89v	26-9	1130	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	27-9	0001	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	27-9	0022	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	27-9	1130	Sun	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	28-9	1129	Mon	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	29-9	0001	Tue	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	29-9	1130	Tue	8073	XSV85 voice callup, female operator	USB	(JPL)
M89v	30-9	0001	Wed	8073	XSV85 voice callup, male operator	USB	(JPL)
M89v	30-9	0019	Wed	8073	XSV85 voice traffic, male operator	USB	(JPL)
M89v	30-9	1129	Wed	8073	XSV85 voice callup, male operator	USB	(JPL)
MC03	17-9	1205	Thu	8747	VVU 4GN DE QJ7 NR 4D6U 4D6U 4D6U (see N&O 216)	CW	(JPL-Sib)
MX	2-9	1341	Wed	13527.7	Beacon "D" Sevastopol/Odessa	CW	(MPJ)
MX	2-9	1342	Wed	13527.9	Beacon "S" Severomorsk	CW	(MPJ)
MX	2-9	1343	Wed	13528	Beacon "C" Moscow	CW	(MPJ)
MX	3-9	1723	Thu	6928	Beacon "V"	CW	(AB)
MX	4-9	1205	Fri	20047.7	Beacon "D" Sevastopol	CW	(AB)
MX	4-9	1205	Fri	20047.9	Beacon "S" Severomorsk	CW	(AB)
MX	4-9	1205	Fri	16331.9	Beacon "S" Severomorsk	CW	(AB)
MX	4-9	1205	Fri	16331.7	Beacon "D" Sevastopol	CW	(AB)
MX	4-9	1205	Fri	16332.2	Beacon "F" Vladivostok	CW	(AB)
MX	4-9	1206	Fri	10871.7	Beacon "D" Sevastopol	CW	(AB)
MX	4-9	1206	Fri	10872	Beacon "C" Moscow	CW	(AB)
MX	4-9	1206	Fri	13528	Beacon "C" Moscow	CW	(AB)
MX	9-9	1706	Wed	6928	Beacon "V" Khiva	CW	(PPA)
MX	9-9	1830	Wed	6828	Beacon "V"	CW	(AB)
MX	9-9	1932	Wed	6828	Beacon "V"	CW	(AB)
MX	25-9	2013	Fri	8497.8	Beacon "L"	CW	(AB)
POL	1-9	0630	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	1-9	0635	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	1-9	0730	Tue	14753	0433 88888 88888 35714 44122 72142 ... 61483 54559 13063 88888 88888 00039 00039	FSK 100/625	(AB)
POL	1-9	0735	Tue	14753	0433 88888 88888 35714 44122 72142 ... 61483 54559 13063 88888 88888 00039 00039	FSK 100/625	(AB)
POL	1-9	0900	Tue	7371	0554 88888 88888 35587 16128 29811 ... 87253 35274 92532 88888 88888 00034 00034	FSK 100/625	(AB)
POL	1-9	0905	Tue	7371	0554 88888 88888 35587 16128 29811 ... 87253 35274 92532 88888 88888 00034 00034	FSK 100/625	(AB)
POL	2-9	0845	Wed	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	2-9	0850	Wed	9339	0353 0353 0353 0353 0353 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	2-9	1305	Wed	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	2-9	1310	Wed	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	3-9	0630	Thu	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	3-9	0635	Thu	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	3-9	0730	Thu	14753	0433 88888 88888 35714 44122 72142 ... 61483 54559 13063 88888 88888 00039 00039	FSK 100/625	(AB)
POL	3-9	0735	Thu	14753	0433 88888 88888 35714 44122 72142 ... 61483 54559 13063 88888 88888 00039 00039	FSK 100/625	(AB)
POL	3-9	0800	Thu	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	3-9	0805	Thu	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	3-9	1000	Thu	15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	3-9	1005	Thu	15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	4-9	0530	Fri	16005	Polish Intel.	FSK 100/625	(AB)
POL	4-9	0535	Fri	16005	Polish Intel.	FSK 100/625	(AB)
POL	4-9	0655	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)

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POL	4-9	0700	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	4-9	0815	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	4-9	0820	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	4-9	0900	Fri	7371	0554 88888 88888 35587 16128 29811 ... 87253 35274 92532 88888 88888 00034 00034	FSK 100/625	(AB)
POL	4-9	0905	Fri	7371	0554 88888 88888 35587 16128 29811 ... 87253 35274 92532 88888 88888 00034 00034	FSK 100/625	(AB)
POL	4-9	1005	Fri	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	4-9	1010	Fri	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	6-9	1305	Sun	8803	0437 88888 88888 86420 90234 82717 ... 90034 02605 67407 01536 88888 88888 00040	FSK 100/625	(AB)
POL	6-9	1310	Sun	8803	0437 88888 88888 86420 90234 82717 ... 90034 02605 67407 01536 88888 88888 00040	FSK 100/625	(AB)
POL	13-9	1405	Sun	13575	0877 0877 0877 0877 0877 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	13-9	1410	Sun	13575	0877 0877 0877 0877 0877 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	13-9	1525	Sun	15632	Polish Intel.	FSK 100/625	(AB)
POL	13-9	1530	Sun	15632	Polish Intel.	FSK 100/625	(AB)
POL	22-9	0630	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	22-9	0635	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	22-9	0655	Tue	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	22-9	0700	Tue	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	22-9	0730	Tue	14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	22-9	0735	Tue	14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-9	0530	Wed	16005	Polish Intel.	FSK 100/625	(AB)
POL	23-9	0535	Wed	16005	Polish Intel.	FSK 100/625	(AB)
POL	23-9	1245	Wed	14972	0132 0132 0132 0132 0132 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-9	1250	Wed	14972	0132 0132 0132 0132 0132 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-9	1305	Wed	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	23-9	1310	Wed	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	24-9	0630	Thu	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	24-9	0635	Thu	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	24-9	0800	Thu	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	24-9	0805	Thu	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	24-9	1000	Thu	15905	0765 88888 ... 88888 00038 00038 (barely audible)	FSK 100/625	(AB)
POL	24-9	1000	Thu	15905	0765 88888 ... 88888 00038 00038 (barely audible)	FSK 100/625	(AB)
POL	24-9	1305	Thu	8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	24-9	1310	Thu	8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	25-9	0655	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	25-9	0700	Fri	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	25-9	0815	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	25-9	0820	Fri	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
POL	25-9	0900	Fri	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	25-9	0905	Fri	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	25-9	1005	Fri	9431	0675 025 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 0001	FSK 100/625	(AB)
POL	25-9	1010	Fri	9431	0675 025 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 0001	FSK 100/625	(AB)
POL	27-9	1305	Sun	8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	27-9	1310	Sun	8803	0437 0437 0437 0437 0437 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-9	0800	Mon	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-9	0805	Mon	6906	0434 0434 0434 0434 0434 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-9	0815	Mon	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-9	0820	Mon	11092	0446 0446 0446 0446 0446 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-9	0845	Mon	9330	0353 88888 88888 57209 52135 22631 ... 23405 23567 11555 88888 88888 00039 00039	FSK 100/625	(AB)
POL	28-9	0850	Mon	9330	0353 88888 88888 57209 52135 22631 ... 23405 23567 11555 88888 88888 00039 00039	FSK 100/625	(AB)
POL	28-9	1000	Mon	15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-9	1005	Mon	15905	0765 0765 0765 0765 0765 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-9	1525	Mon	15632	0221 0221 0221 0221 0221 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	28-9	1530	Mon	15632	0221 0221 0221 0221 0221 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-9	0630	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-9	0635	Tue	10728	0574 0574 0574 0574 0574 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-9	0655	Tue	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-9	0700	Tue	10246	0684 0684 0684 0684 0684 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-9	0730	Tue	14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-9	0735	Tue	14753	0433 0433 0433 0433 0433 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-9	0900	Tue	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-9	0905	Tue	7371	0554 0554 0554 0554 0554 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-9	1005	Tue	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-9	1010	Tue	9431	0675 0675 0675 0675 0675 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	29-9	1245	Tue	14972	id 0132 36 groups	FSK 100/625	(AB)
POL	29-9	1250	Tue	14972	id 0132 36 groups	FSK 100/625	(AB)
POL	30-9	0530	Wed	16005	0543 0543 0543 0543 0543 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	30-9	0535	Wed	16005	0543 0543 0543 0543 0543 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	30-9	0845	Wed	9339	0353 88888 88888 57209 52135 22631 ... 23405 23567 11455 88888 88888 00039 00039	FSK 100/625	(AB)
POL	30-9	0850	Wed	9339	0353 88888 88888 57209 52135 22631 ... 23405 23567 11455 88888 88888 00039 00039	FSK 100/625	(AB)
POL	30-9	1305	Wed	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
POL	30-9	1310	Wed	5358	0547 0547 0547 0547 0547 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000	FSK 100/625	(AB)
RAv	27-9	1610	Sun	11360	Korsar w/82039 msg: 627 092 585 165 573 0003 600 771 444	USB	(RP-MD)
RAv	27-9	1613	Sun	11360	76779 clg Korsar w/no response. Unheard stn responds and 76779 asks him to relay to Korsar that he has 44 tons of fuel remaining	USB	(RP-MD)
RMv	27-9	0611	Sun	4572	HUMAN58 clg out stations	USB	(CA2)
RMv	29-9	0441	Tue	4484.5	Russian mil. KASET29 wkg out stations	USB	(CA2)

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RNV	27-9	0458	Sun	5079.5	Russian Navy Sevastopol: GVODZIKA (RCV) in QSO with BARONIK (RGZ59)	USB	(F5JBR)
RNV	27-9	1445	Sun	13125	GVOZDIKA: Russian Navy Sevastopol in QSO with YASIK (RHM80)	USB	(F5JBR)
S06	4-9	0830	Fri	19035	842 670 43 63490	USB	(HFD)
S06	5-9	1600	Sat	7643	491 0	USB	(HFD)
S06	5-9	1900	Sat	5124	738 690 45 56330	USB	(HFD)
S06	5-9	2000	Sat	4443	738	USB	(HFD)
S06	6-9	1900	Sun	5124	738 690 45 56330 07166 34176 ... 85945 25626 91160 690 45 00000	USB	(AB)
S06	21-9	0405	Mon	15721	i.p.	USB	(HFD)
S06	23-9	0530	Wed	9296	464 210 5 46062	USB	(HFD)
S06	23-9	0540	Wed	10365	464	USB	(HFD)
S06	25-9	0830	Fri	19035	842 150 46 47855 29526 68209 ... 20760 88546 43150 150 46 00000	USB	(AB)
S06s	1-9	0600	Tue	15855	438 265 7 44801	USB	(HFD)
S06s	1-9	0610	Tue	16485	438	USB	(HFD)
S06s	1-9	0700	Tue	5760	374	USB	(HFD)
S06s	1-9	0710	Tue	6930	374	USB	(HFD)
S06s	1-9	0715	Tue	6930	374 ...	USB	(AB)
S06s	1-9	0730	Tue	7425	427 935 6 48093	USB	(HFD)
S06s	1-9	0740	Tue	11560	427	USB	(HFD)
S06s	1-9	0800	Tue	11635	352 948 6 46399	USB	(HFD)
S06s	1-9	0810	Tue	10420	352	USB	(HFD)
S06s	1-9	1010	Tue	7340	893 204 5 #2#47	USB	(HFD)
S06s	2-9	0540	Wed	10365	464 230 5 32939 43631 32939 31096 35264 230 5 00000	USB	(AB)
S06s	2-9	0730	Wed	11854	745 239 6 34528 39182 37447 46393 42747 34194 239 6 00000	AM	(AB/HFD)
S06s	2-9	0740	Wed	12140	745 239 6 34528 39182 37447 46393 42747 34194 239 6 00000	AM	(AB)
S06s	2-9	0745	Wed	12140	745 239 6 34528	USB	(HFD)
S06s	2-9	0820	Wed	8630	471 293 5 35011	USB	(HFD)
S06s	2-9	0830	Wed	9255	471	USB	(HFD)
S06s	2-9	1000	Wed	13365	729 806 5 39250	USB	(HFD)
S06s	2-9	1010	Wed	14505	729	USB	(HFD)
S06s	3-9	0900	Thu	12952	167	USB	(HFD)
S06s	3-9	0900	Thu	12952	167 490 5 91308 84062 43661 49504 96005 490 5 00000	AM	(AB)
S06s	3-9	0900	Thu	5744	624 895 7 37498	USB	(HFD)
S06s	3-9	0910	Thu	6524	624	USB	(HFD)
S06s	3-9	0910	Thu	13565	167 490 5 91308 84062 43661 49504 96005 490 5 00000	AM	(AB)
S06s	3-9	0910	Thu	6524	624 895 7 37498 36058 37383 93382 46452 59194 31911 895 7 00000	USB	(AB)
S06s	3-9	0910	Thu	13565	167 490 5 91308	USB	(HFD)
S06s	3-9	0930	Thu	9081	314 508 6 31542 38747 33534 36213 37580 39209 508 6 00000	USB	(AB/HFD)
S06s	3-9	0940	Thu	10514	314 508 6 31542 38747 33534 36213 37580 39209 508 6 00000	USB	(AB/HFD)
S06s	3-9	1200	Thu	12415	425 908 6 32939	USB	(HFD)
S06s	3-9	1210	Thu	14212	425	USB	(HFD)
S06s	4-9	0930	Fri	12140	516 832 7 49336	USB	(HFD)
S06s	4-9	0940	Fri	13515	516 832 7 49336 34530 37336 83340 91195 43639 37368 832 7 00000	USB	(AB/HFD)
S06s	5-9	1200	Sat	10350	254 901 6 38783	USB	(HFD)
S06s	5-9	1210	Sat	8520	254	USB	(HFD)
S06s	7-9	0830	Mon	8270	371	USB	(HFD)
S06s	7-9	0830	Mon	9220	371	USB	(HFD)
S06s	7-9	0840	Mon	8270	371 824 5 38424	USB	(HFD)
S06s	7-9	0900	Mon	14580	872	USB	(HFD)
S06s	7-9	0910	Mon	13165	872 439 5 31542	USB	(HFD)
S06s	7-9	1200	Mon	9145	831 907 5 39746	USB	(HFD)
S06s	7-9	1210	Mon	11460	831	USB	(HFD)
S06s	8-9	1113	Tue	7230	i.p.	USB	(HFD)
S06s	15-9	1510	Tue	7242	537 918 6 18620	USB	(HFD)
S06s	16-9	0740	Wed	12140	745 936 8 32396 81853 39840 38244 38381 45807 33078 43012 936 8 00000	AM	(AB)
S06s	16-9	1000	Wed	13365	729 530 6 44801 47085 83464 88174 35299 80987 530 6 00000	USB	(AB)
S06s	16-9	1010	Wed	14505	729 530 6 44801 47085 83464 88174 35299 80987 530 6 00000	USB	(AB)
S06s	18-9	0930	Fri	12140	516 820 7 33558 34282 44534 88645 36995 44108 46833 820 7 00000	AM	(JU)
S06s	22-9	0715	Tue	6930	374 unreadable	USB	(AB)
S06s	22-9	0730	Tue	7425	427 839 5 31746 36304 38135 35783 31823 839 5 00000	AM	(AB)
S06s	22-9	0740	Tue	11560	427 839 5 31746 36304 38135 35783 31823 839 5 00000	AM	(AB)
S06s	22-9	1500	Tue	6464	537 918 6 88620 58069 61732 74537 57440 10597 918 6 00000	USB	(AB)
S06s	22-9	1510	Tue	7242	537 918 6 88620 58069 61732 74537 57440 10597 918 6 00000	USB	(AB)

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S06s	23-9	0540	Wed	10365	464 210 5 46062 68672 97478 39685 30485 210 5 00000	USB	(AB)
S06s	23-9	0740	Wed	12140	745 936 8 32396 81853 39840 38244 38381 45807 33078 43012 936 8 00000	AM	(AB)
S06s	23-9	0820	Wed	8630	471 508 6 43686 41225 40696 81942 34293 43952 508 6 00000	USB	(AB)
S06s	23-9	0830	Wed	9255	471 508 6 43686 41225 40696 81942 34293 43952 508 6 00000	USB	(AB)
S06s	23-9	1000	Wed	13365	729 530 6 44801 47085 83464 88174 35299 80987 530 6 00000	AM	(AB)
S06s	23-9	1010	Wed	14505	729 530 6 44801 47085 83464 88174 35299 80987 530 6 00000	AM	(AB)
S06s	24-9	0900	Thu	5744	624 817 5 39534 17228 15636 47891 23247 817 5 00000	USB	(AB)
S06s	24-9	0900	Thu	12952	167 820 5 40614 77249 70678 17976 21816 820 5 00000	AM	(AB)
S06s	24-9	0910	Thu	6524	624 817 5 39534 17228 15636 47891 23247 817 5 00000	USB	(AB)
S06s	24-9	0910	Thu	13565	167 820 5 40614 77249 70678 17976 21816 820 5 00000	AM	(AB)
S06s	24-9	0930	Thu	9081	314 509 6 88620 58069 61732 74537 57440 10597 509 6 00000	USB	(AB)
S06s	24-9	0940	Thu	10514	314 509 6 88620 58069 61732 74537 57440 10597 509 6 00000	USB	(AB)
S06s	24-9	1200	Thu	12415	425 807 6 33796 13577 47526 46647 79302 53516 807 6 00000	AM	(AB)
S06s	24-9	1210	Thu	14212	425 807 6 33796 13577 47526 46647 79302 53516 807 6 00000	AM	(AB)
S06s	25-9	0940	Fri	13515	516 820 7 33558 34282 44534 88645 36995 44108 46833 820 7 00000	AM	(AB)
S06s	27-9	0630	Sun	22185	524	USB	(HFD)
S06s	27-9	0640	Sun	20050	524	USB	(HFD)
S06s	28-9	0830	Mon	9220	371 285 6 83270 96798 34467 37144 48980 44405 285 6 00000	USB	(AB)
S06s	28-9	0840	Mon	8270	371 285 6 83270 96798 34467 37144 48980 44405 285 6 00000	USB	(AB)
S06s	29-9	0600	Tue	15855	438 438 438 00000	USB	(AB)
S06s	29-9	0610	Tue	16485	438 438 438 00000	USB	(AB)
S06s	29-9	0710	Tue	6930	374 364 374 00000	USB	(AB)
S06s	29-9	0730	Tue	7425	427 427 427 00000	USB	(AB)
S06s	29-9	0740	Tue	11560	427 427 427 00000	USB	(AB)
S06s	29-9	0800	Tue	11635	352 352 352 00000	USB	(AB)
S06s	29-9	0809	Tue	10420	352 352 352 00000 (1 minute early)	USB	(AB)
S06s	30-9	0530	Wed	9296	464 464 464 00000	USB	(AB)
S06s	30-9	0540	Wed	10365	464 464 464 00000	USB	(AB)
S06s	30-9	0740	Wed	12140	745 745 745 00000	AM	(AB)
S06s	30-9	0830	Wed	8630	471 471 471 00000	USB	(AB)
S06s	30-9	0840	Wed	9255	471 471 471 00000	USB	(AB)
S06s	30-9	1000	Wed	13365	729 729 729 00000	AM	(AB)
S06s	30-9	1010	Wed	14505	729 729 729 00000	AM	(AB)
S11a	1-9	0455	Tue	5358	320/37 50520	USB	(HFD)
S11a	1-9	0915	Tue	7317	476/30 Vnimanie 35587 16128 29811 ... 87253 35274 92532 Vnimanie, rpt msg, konec	USB	(AB/HFD)
S11a	1-9	1020	Tue	9960	426/00	USB	(AB/HFD)
S11a	2-9	1955	Wed	4016	371/00	USB	(HFD)
S11a	3-9	1015	Thu	16112	475/00	USB	(AB/HFD)
S11a	4-9	0915	Fri	7317	476/30 Vnimanie 35587 16128 29811 ... 87253 35274 92532 Vnimanie, rpt msg, out	USB	(AB)
S11a	4-9	1020	Fri	9960	426/00	USB	(AB)
S11a	16-9	1955	Wed	4016	371/00	USB	(AB)
S11a	16-9	1955	Wed	4016	371/00	USB	(AB)
S11a	24-9	1015	Thu	16112	470/34 Vnimanie (barely audible)	USB	(AB)
S11a	25-9	0455	Fri	5358	321/00	USB	(AB)
S11a	25-9	0915	Fri	7317	484/00	USB	(AB)
S11a	25-9	1020	Fri	9960	526/00	USB	(AB)
S11a	28-9	1015	Mon	16112	475/00	USB	(AB)
S11a	29-9	0915	Tue	7317	484/00	USB	(AB)
S11a	29-9	1020	Tue	9960	426/00	USB	(AB)
S11a	30-9	1955	Wed	4016	371/00	USB	(KK2)
S28	2-9	1543	Wed	4625	MDZhB 98 484 DVOPYeK 8888 0259	USB	(Priyom)
S28	5-9	1409	Sat	4625	MDZhB GYeOLOGiYa 55 37	USB	(Priyom)
S28	10-9	1021	Thu	4625	MDZhB 77 322 AVO 3328 7927	USB	(Priyom)
S28	12-9	1705	Sat	4625	Channel marker (buzzer)	USB	(ChPa)
S28	13-9	1231	Sun	4625	MDZhB 08 613 SVITKA 4119 6963	USB	(Priyom)
S28	14-9	0406	Mon	4625	MDZhB 04 542 KVINOKAIN 5343 7200	USB	(Priyom)
S28	14-9	0440	Mon	4625	MDZhB 59 318 TVIN 9051 0025	USB	(Priyom)
S28	19-9	0600	Sat	4625	MDZhB TIGRICA 62 20	USB	(Priyom)
S28	20-9	1009	Sun	4625	MDZhB 65 208 LIPAK 1520 1796	USB	(Priyom)
S28	20-9	1254	Sun	4625	MDZhB 01 347 LIPAVLON 1100 8291	USB	(Priyom)
S28	20-9	1410	Sun	4625	MDZhB 67 627 CIN'HA 3693 0944	USB	(Priyom)
S28	24-9	0756	Thu	4625	MDZhB 96 833 SHINSHILLA 9264 8259	USB	(Priyom)

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S28	24-9	0832	Thu	4625	MDZhB 27 055 SINHROTRON 8179 6586	USB	(Priyom)
S28	24-9	1009	Thu	4625	MDZhB 75 519 DINOYeK 1389 7766	USB	(Priyom)
S28	25-9	1750	Fri	4625	Some voice tests after failed line fix	USB	(Priyom)
S28	27-9	1225	Sun	4625	MDZhB 96 963 MINONOSNYJ 8640 1411	USB	(Priyom)
S28	27-9	1317	Sun	4625	MDZhB 67 771 KINODIALOG 6984 3342	USB	(Priyom)
S28	28-9	0928	Mon	4625	MDZhB 60 215 SHINNYJ 8035 0167	USB	(Priyom)
S28	28-9	1119	Mon	4625	MDZhB 77 937 VINKATON 1359 2260	USB	(Priyom)
S28	30-9	0938	Wed	4625	MDZhB 20 323 TORPYeDNIK 8116 0625	USB	(Priyom)
S28	30-9	1141	Wed	4625	MDZhB 58 152 PATRUBYeN' 3009 8765	USB	(Priyom)
S28	30-9	1349	Wed	4625	MDZhB 78 565 KRYeVYeNT 2243 3637	USB	(Priyom)
S28	30-9	1823	Wed	4625	MDZhB 00 136 TINKAL' 7527 0698	USB	(Priyom)
S28	30-9	1915	Wed	4625	MDZhB 11 869 GINYeCYeJ 4479 1695	USB	(Priyom)
S30	2-9	1500	Wed	5448	8S1Shch GIGRONIJ 02 09	USB	(Priyom)
S30	2-9	1853	Wed	3756	Zh7Nzh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU	USB	(Priyom)
S30	3-9	1750	Thu	3756	SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY	USB	(Priyom)
S30	4-9	1659	Fri	3756	8S1Shch ORALA 32 99	USB	(Priyom)
S30	10-9	1750	Thu	3756	Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI	USB	(Priyom)
S30	12-9	1844	Sat	3756	N1DU 53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM	USB	(Priyom)
S30	13-9	1835	Sun	3756	49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNSHch	USB	(Priyom)
S30	13-9	1914	Sun	3756	Zh7Nzh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZI	USB	(Priyom)
S30	14-9	1606	Mon	3756	SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY	USB	(Priyom)
S30	15-9	1639	Tue	3756	TZLM FY5E F61N 37CN MUDR 7VNSHch Zh7Nzh YMA5 VTH3 AGDT	USB	(Priyom)
S30	16-9	1519	Wed	5488	8S1Shch 00 939 OBIHODYeC 4560 5709	USB	(Priyom)
S30	16-9	1820	Wed	3756	ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh	USB	(Priyom)
S30	17-9	1459	Thu	5488	8S1Shch 06 341 LISTAZh 2263 3184	USB	(Priyom)
S30	17-9	1738	Thu	3756	CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR	USB	(Priyom)
S30	17-9	1849	Thu	3756	5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN	USB	(Priyom)
S30	18-9	1445	Fri	5488	8S1Shch 15 902 TYeRMINATOR 7769 4121	USB	(Priyom)
S30	18-9	1450	Fri	5488	8S1Shch 78 202 PIKSAL 1221 3987	USB	(Priyom)
S30	18-9	1456	Fri	5488	INNC C2ZA 22 372 31 591 ABSYeNTYeIST 3602 5520	USB	(Priyom)
S30	18-9	1500	Fri	5488	8S1Shch 95 587 PRISTYaZhKA 8936 2557	USB	(Priyom)
S30	19-9	1753	Sat	3756	CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA	USB	(Priyom)
S30	20-9	1411	Sun	5488	8S1Shch 45 583 PANICHYeSKIJ 4720 5445	USB	(Priyom)
S30	20-9	1455	Sun	5488	VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZI 4RVZ 3VS'	USB	(Priyom)
S30	20-9	1754	Sun	3756	DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1	USB	(Priyom)
S30	21-9	1459	Mon	5488	8S1Shch 13 297 PUChYeNIYe 2170 3921	USB	(Priyom)
S30	21-9	1504	Mon	5488	C2ZA TZLM 81 914 49 968 IZYeR 5470 0401	USB	(Priyom)
S30	23-9	1746	Wed	3756	N1DU 53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM	USB	(Priyom)
S30	24-9	1547	Thu	3756	49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNSHch	USB	(Priyom)
S30	25-9	1136	Fri	5488	8S1Shch 54 518 RADIOLOG 6502 0691	USB	(Priyom)
S30	25-9	1508	Fri	5488	TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ	USB	(Priyom)
S30	25-9	1804	Fri	3756	SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY	USB	(Priyom)
S30	29-9	0454	Tue	5488	MUDR 7VNSHch Zh7Nzh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch	USB	(Priyom)
S30	29-9	1433	Tue	5448	8S1Shch 54 954 SFYeROID 3085 5058	USB	(Priyom)
S30	29-9	1649	Tue	3756	9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5	USB	(Priyom)
S30	29-9	1845	Tue	3756	L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE	USB	(Priyom)
S30	30-9	1524	Wed	3756	78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B	USB	(Priyom)
S30	30-9	1810	Wed	3756	CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA	USB	(Priyom)
S30	30-9	1822	Wed	3756	8S1Shch 33 386 YeNOLAZA 2088 9526	USB	(Priyom)
S30	30-9	1915	Wed	3756	8S1Shch 15 565 NYeVYeJKA 9511 7694	USB	(Priyom)
S32	1-9	0900	Tue	7009	AL'FA-45 51 352 FYeNOBIN 5465 9973	USB	(Priyom)
S32	2-9	1851	Wed	3828	SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27 P	USB	(Priyom)
S32	3-9	1200	Thu	7009	AL'FA-45 87 858 KANKA 5823 0387	USB	(Priyom)
S32	3-9	1927	Thu	3828	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32 ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 with S30 in background	USB	(Priyom)
S32	4-9	1702	Fri	7009	AL'FA-45 ORALA 32 99 (S32 relay of S30 signal). Pip marker on background	USB	(Priyom)
S32	7-9	1017	Mon	7009	AL'FA-45 Completely failed monolith signal	USB	(Priyom)
S32	7-9	1029	Mon	7009	1 2 3 4 5 6 7 8 9 0 Test count after failed signal	USB	(Priyom)
S32	7-9	1120	Mon	7009	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 KOVBOJ-39 with S30 in background	USB	(Priyom)
S32	7-9	1220	Mon	7009	FONTAN-34 KOVBOJ-39	USB	(Priyom)
S32	7-9	1337	Mon	7009	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 FONTAN-34 KOVBOJ-39	USB	(Priyom)
S32	7-9	1823	Mon	3828	FONTAN-34 KOVBOJ-39	USB	(Priyom)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
S32	10-9	1919	Thu	3828	RUZH'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32 with S30 in background	USB	(Priyom)
S32	12-9	1515	Sat	3828	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 with S30 in background	USB	(Priyom)
S32	12-9	1603	Sat	3828	SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27 with S30 in background	USB	(Priyom)
S32	12-9	1800	Sat	3828	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34	USB	(Priyom)
S32	13-9	0319	Sun	3828	AL'FA-45 78 038 TYeKTONIKA 8524 0457 with S30 in background	USB	(Priyom)
S32	13-9	1235	Sun	7009	AL'FA-45 06 362 ARYS 1459 8151 with S30 in background	USB	(Priyom)
S32	13-9	1249	Sun	7009	RUZH'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 with S30 in background	USB	(Priyom)
S32	13-9	1509	Sun	3828	SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27 with S30 in background	USB	(Priyom)
S32	13-9	1740	Sun	3828	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39	USB	(Priyom)
S32	14-9	0408	Mon	3828	AL'FA-45 94 777 POLYNOVKA 6473 7279 with S30 in background	USB	(Priyom)
S32	15-9	0750	Tue	7009	SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27	USB	(Priyom)
S32	15-9	1831	Tue	3828	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 with S30 on background	USB	(Priyom)
S32	16-9	1813	Wed	3828	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 KURGAN-40 STUPA-32 RUZH'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 with S30 on background	USB	(Priyom)
S32	17-9	1820	Thu	3828	RUZH'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27	USB	(Priyom)
S32	18-9	1642	Fri	3828	RUZH'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32	USB	(Priyom)
S32	18-9	1747	Fri	3828	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 with S30 on background	USB	(Priyom)
S32	19-9	1505	Sat	3828	SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27 with S30 on background	USB	(Priyom)
S32	19-9	1532	Sat	3828	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 with S30 on background	USB	(Priyom)
S32	20-9	1003	Sun	7009	SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27 with S30 on background	USB	(Priyom)
S32	20-9	1012	Sun	7009	AL'FA-45 94 712 VDYeVANIYe 2791 6689 with S30 on background	USB	(Priyom)
S32	20-9	1259	Sun	7009	AL'FA-45 17 252 SKAT 7508 3498 Bad link to tx site from the hub caused bad quality signal reading. Pip on background	USB	(Priyom)
S32	20-9	1311	Sun	7009	RUZH'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32 Bad link to tx site from the hub. Pip on background	USB	(Priyom)
S32	20-9	1414	Sun	3828	AL'FA-45 40 622 AKROPOMA 9827 7045	USB	(Priyom)
S32	20-9	1414	Sun	7009	AL'FA-45 40 622 AKROPOMA 9827 7045	USB	(Priyom)
S32	20-9	1605	Sun	3828	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 with S30 on background	USB	(Priyom)
S32	20-9	1725	Sun	3828	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34	USB	(Priyom)
S32	21-9	0352	Mon	3828	AL'FA-45 39 141 53 899 63 549 EL'STYeR 1298 7602	USB	(Priyom)
S32	21-9	0356	Mon	3828	AL'FA-45 74 367 50 938 31 069 KASH TAN 6363 6614	USB	(Priyom)
S32	21-9	0400	Mon	3828	AL'FA-45 53 695 13 075 72 353 POCHTAL'ON 0188 1263	USB	(Priyom)
S32	21-9	0747	Mon	3828	SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27	USB	(Priyom)
S32	21-9	1600	Mon	3828	K3VJ 19BT M7KS 67 101 66 378 76 202 GUSYaTINA 5167 9296	USB	(Priyom)
S32	21-9	1823	Mon	3828	RUZH'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32	USB	(Priyom)
S32	23-9	0412	Wed	3828	AL'FA-45 65 913 KALOMYeL' 0441 2289 with S30 on background	USB	(Priyom)
S32	23-9	1147	Wed	7009	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 with S30 on background	USB	(Priyom)
S32	23-9	1557	Wed	3828	RUZH'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBLYoR-68 STUPA-32 with S30 on background	USB	(Priyom)
S32	23-9	1628	Wed	3828	K3VJ 19BT M7KS 22 973 08 678 92 595 PUSTOTA 9205 4008	USB	(Priyom)
S32	23-9	1800	Wed	3828	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 with S30 on background	USB	(Priyom)
S32	23-9	1818	Wed	3828	K3VJ 19BT M7KS 11 432 15 967 68 745 UGRYuMYJ 7850 5136 with S30 on background	USB	(Priyom)
S32	23-9	1828	Wed	3828	K3VJ 19BT M7KS 78 463 09 586 79 879 KARTA 8561 6327 with S30 on background	USB	(Priyom)
S32	23-9	1848	Wed	3828	K3VJ 19BT M7KS 58 463 78 566 04 131 FORTUNA 0368 7897	USB	(Priyom)
S32	23-9	1918	Wed	3828	K3VJ 19BT M7KS 76 113 73 558 11 257 MONITOR 4552 0826 with S30 on background	USB	(Priyom)
S32	24-9	0756	Thu	7009	AL'FA-45 94 585 POLUMYeTAL 3164 0324 with S30 on background	USB	(Priyom)
S32	24-9	0834	Thu	7009	AL'FA-45 57 828 KINOPLYeNKA 1811 1295 with S30 on background	USB	(Priyom)
S32	24-9	1009	Thu	7009	AL'FA-45 56 199 SGOVORKA 4765 3685 with S30 on background	USB	(Priyom)
S32	24-9	1336	Thu	7009	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 KURGAN-40 DUBLYoR-68 STUPA-32 with S30 on background	USB	(Priyom)
S32	24-9	1813	Thu	3828	RUZH'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(Priyom)
S32	24-9	2102	Thu	3828	AL'FA-45 73 698 41 831 81 068 UNNA 3065 6642 with S30 on background	USB	(Priyom)
S32	25-9	1012	Fri	7009	SLIVA-94 LANDYSh-74 STAZhER-29 ALEUT-09 ZASLONKA-27	USB	(Priyom)
S32	25-9	1140	Fri	7009	AL'FA-45 46 713 POTVUSHKA 7564 1100	USB	(Priyom)
S32	29-9	1437	Tue	5473	AL'FA-45 95 545 HABUR 2328 2131	USB	(Priyom)
S32	29-9	1805	Tue	3828	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 RUZH'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(Priyom)
S32	30-9	1805	Wed	3828	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34	USB	(Priyom)
S32	30-9	1820	Wed	3828	AL'FA-45 81 110 CIMINAL' 6414 3683 PIP and CW control signal on background	USB	(Priyom)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrl
S32	30-9	1916	Wed	3828	AL'FA-45 33 455 POZITIVNYJ 7510 4372 error in reading	USB	(Priyom)
S3850	6-9	1900	Sun	3850	Channel marker (long dash)	USB	(AB)
S3850	7-9	1927	Mon	3850	Channel marker (long dash)	USB	(AB)
S3850	9-9	1824	Wed	3850	Channel marker (long dash)	USB	(AB)
S3850	10-9	1929	Thu	3850	Channel marker (long dash)	USB	(AB)
S3850	14-9	1609	Mon	3850	Channel marker (long dash)	USB	(Danix)
S3850	14-9	1951	Mon	3850	Channel marker (long dash)	USB	(AB)
S3850	15-9	0230	Tue	7700	Channel marker (long dash)	USB	(KM3)
S3850	26-9	1500	Sat	3850	Time marker	USB	(DJPr)
S3850	26-9	2200	Sat	3850	Time marker	USB	(DJPr)
S3850	29-9	1933	Tue	3850	Channel marker (long dash)	USB	(AB)
S4525	3-9	1719	Thu	4525	Channel marker (dash)	USB	(AB)
S4525	3-9	1917	Thu	4525	Channel marker (dash)	USB	(MPJ)
S4525	7-9	1927	Mon	4525	Channel marker (short dash)	USB	(AB)
S4525	9-9	1824	Wed	4525	Channel marker (short dash)	USB	(AB)
S4525	9-9	1929	Wed	4525	Channel marker (short dash)	USB	(AB)
S4525	12-9	1659	Sat	4525	Channel marker (short dash)	USB	(ChPa)
S4525	13-9	1642	Sun	4525	Channel marker (short dash)	USB	(AB)
S4525	14-9	1951	Mon	4525	Channel marker (short dash)	USB	(AB)
S4525	25-9	2012	Fri	4525	Channel marker	USB	(AB)
S4525	29-9	1934	Tue	4525	Channel marker (short dash)	USB	(AB)
S5292	3-9	1719	Thu	5292	Channel marker "B"	USB	(AB)
S5292	4-9	1604	Fri	5292	Channel marker sending -..... then B and D and later only B	USB	(AB)
S5292	9-9	1828	Wed	5292	Channel marker "B"	USB	(AB)
S5292	9-9	1930	Wed	5292	Channel marker "D"	USB	(AB)
S5292	12-9	1710	Sat	5292	Channel marker "D"	USB	(ChPa)
S5292	13-9	1653	Sun	5292	Channel marker "D"	USB	(AB)
S5292	15-9	1400	Tue	5292	RYeGATA-75 SYeKRYeT-39 73 901 PIANIST 3274 1121	USB	(Priyom)
S5292	18-9	1235	Fri	5292	TRYeL'-31 VIZIR-21 63 821 BAZYeJKA 2856 5830. Count before the signal	USB	(Priyom)
S5292	21-9	1325	Mon	5292	SYeKRYeT-39 RYeGATA-75 84 921 LIADIRAMMA 3827 6498 "Should I talk only through this?" in the beginning. Count before the signal	USB	(Priyom)
S5292	23-9	1441	Wed	5292	BARZHA-08 BOYeC-43 94 211 TURYeL' 4638 3292. Count before the signal	USB	(Priyom)
S5292	27-9	1838	Sun	5292	BOYeC-43 47 591 BUBYeN 1862 8271. Count before the signal	USB	(Priyom)
S5292	29-9	1226	Tue	5292	TRYeL'-31 VIZIR-21 37 649 MITING 3843 2121	USB	(Priyom)
S5292	29-9	1930	Tue	5292	Channel marker "D"	USB	(AB)
SDN	31-8	1405	Mon	21000	MFA Khartoum, voice traffic to embassy Yemen	USB	(IARUMS)
SDN	31-8	1410	Mon	21002.2	MFA Khartoum, msg to embassy Yemen	Pactor-1	(IARUMS)
UM10	1-9	1703	Tue	3343	10-mins net: LH5N //3860 kHz	CW	(JPL-Sib)
UM10	1-9	1703	Tue	3860	10-mins net: LH5N //3343 kHz	CW	(JPL-Sib)
UM10	2-9	1032	Wed	6826	10-mins net: ZYVM	CW	(JPL-Sib)
UM10	2-9	1627	Wed	3860	10-mins net: LH5N //3343 kHz	CW	(JPL-Sib)
UM10	2-9	1627	Wed	3343	10-mins net: LH5N //3860 kHz	CW	(JPL-Sib)
UM10	2-9	1629	Wed	3541	10-mins net: HDNA	CW	(JPL-Sib)
UM10	27-9	2258	Sun	6486	10-mins net: CWS4 (new callsign)	CW	(JPL-Sib)
V07	20-9	0300	Sun	16037	661 661 661 000	USB	(Dan)
V07	20-9	0320	Sun	14637	661 661 661 000	USB	(Dan)
V07	27-9	0300	Sun	16037	661 1 789 75 25905 09587 25298 .. 83784 84137 33587 000 000	USB	(Dan/HFD)
V07	27-9	0320	Sun	14637	661 1 789 75 25905 09587 25298 .. 83784 84137 33587 000 000	USB	(Dan/HFD)
V07	27-9	0340	Sun	12137	661 1 789 75 25905 09587 25298 .. 83784 84137 33587 000 000	USB	(Dan/HFD)
V26	2-9	0030	Wed	9153	i.p.	USB	(NC)
X06	1-9	0916	Tue	20336	Mazielka. Sequence: 246531	MFSK	(PUK)
X06	1-9	1140	Tue	18523	Mazielka. Sequence: 325614	MFSK	(AAI)
X06	2-9	0630	Wed	13838	Mazielka. Sequence: 256341	MFSK	(AAI)
X06	2-9	0825	Wed	17445	Mazielka. Sequence: 362154	MFSK	(PUK)
X06	2-9	1105	Wed	16115	Mazielka. Sequence: 215346	MFSK	(PUK)
X06	2-9	1421	Wed	16013	Mazielka. Sequence: 645321	MFSK	(PUK)
X06	3-9	1314	Thu	16132	Mazielka. Sequence: 352416	MFSK	(AAI/PUK)
X06	4-9	0822	Fri	14570	Mazielka. Sequence: 324615	MFSK	(PUK)
X06	4-9	1016	Fri	12215	Mazielka. Sequence: 361245	MFSK	(PUK)
X06	4-9	1028	Fri	13547	Mazielka. Sequence: 625413	MFSK	(PUK)
X06	9-9	1003	Wed	14944	Mazielka. Sequence: 621543	MFSK	(PUK)
X06	9-9	1056	Wed	14944	Mazielka. Sequence: 621543	MFSK	(PUK)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
X06	9-9	1159	Wed	15878	Mazielka. Sequence: 621543	MFSK	(DSch)
X06	11-9	0837	Fri	10653	Mazielka. Sequence: 356412	MFSK	(PUK)
X06	11-9	1016	Fri	14863	Mazielka. Sequence: 615243	MFSK	(PUK)
X06	14-9	0925	Mon	16117	Mazielka. Sequence: 463125	MFSK	(PUK)
X06	14-9	1304	Mon	15656	Mazielka. Sequence: 364152	MFSK	(PUK)
X06	15-9	0857	Tue	15687	Mazielka. Sequence: 154263	MFSK	(PUK)
X06	15-9	1204	Tue	17454	Mazielka. Sequence: 325614	MFSK	(PUK)
X06	18-9	0830	Fri	16219	Mazielka. Sequence: 324615	MFSK	(PUK)
X06	18-9	0835	Fri	18197	Mazielka. Sequence: 645321	MFSK	(PUK)
X06	18-9	1009	Fri	12215	Mazielka. Sequence: 361245	MFSK	(PUK)
X06	21-9	0732	Mon	18750	Mazielka. Sequence: 641523	MFSK	(PUK)
X06	22-9	1706	Tue	14538	Mazielka. Sequence: 211216	MFSK	(Sch)
X06	22-9	1707	Tue	14538	Mazielka. Sequence: 116154	MFSK	(Sch)
X06	23-9	1710	Wed	11464	Mazielka. Sequence: 211216	MFSK	(AAI)
X06	30-9	1118	Wed	14944	Mazielka. Sequence: 621543	MFSK	(PUK)
X06b	6-9	1606	Sun	13527	Mazielka. Sequence: 1--6--	MFSK	(Sch)
X06b	6-9	1628	Sun	13527	Mazielka. Sequence: 1--6--	MFSK	(Sch)
X06b	17-9	1835	Thu	11576	Mazielka. Sequence: 1-----	MFSK	(Sch)
X06b	18-9	1400	Fri	16147	Mazielka. Sequence: 1-----	MFSK	(Sch)
XPA	1-9	1900	Tue	11576	542 1 08587 00319 30852 69658 79531 ...	MFSK-16/10Bd	(MPJ/HFD)
XPA	1-9	1920	Tue	10476	542 1 08587 00319 30852 69658 79531 ...	MFSK-16/10Bd	(MPJ/HFD)
XPA	1-9	1940	Tue	9276	542 1 08587 00319 30852 69658 79531 ...	MFSK-16/10Bd	(MPJ/HFD)
XPA	2-9	0600	Wed	10359	355 355 355 000 09003 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	2-9	0620	Wed	11559	355 355 355 000 09003 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	2-9	0640	Wed	13559	355 355 355 000 09003 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	3-9	1900	Thu	11576	542 1 08587 00319 30852 ... 47571 85357 76540	MFSK-20/10Bd	(MPJ)
XPA	3-9	1920	Thu	10476	542 1 08587 00319 30852 ... 47571 85357 76540	MFSK-20/10Bd	(AB)
XPA	3-9	1940	Thu	9276	542 1 08587 00319 30852 ... 47571 85357 76540	MFSK-20/10Bd	(MPJ)
XPA	4-9	0600	Fri	10359	355 355 355 000 03964 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	4-9	0620	Fri	11559	355 355 355 000 03964 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	4-9	0640	Fri	13559	355 355 355 000 03964 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10-9	1900	Thu	11576	542 1 02815 00169 40076 ... 46059 60972 70737	MFSK-20/10Bd	(AB)
XPA	10-9	1920	Thu	10476	542 1 02815 00169 40076 ... 46059 60972 70737	MFSK-20/10Bd	(AB)
XPA	10-9	1940	Thu	9276	542 1 02815 00169 40076 ... 46059 60972 70737	MFSK-20/10Bd	(AB)
XPA	17-9	1900	Thu	11576	542 542 542 000 04991 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	17-9	1920	Thu	10476	542 542 542 000 04991 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	17-9	1940	Thu	9276	542 542 542 000 04991 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	23-9	0600	Wed	10359	355 355 355 000 02046 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	23-9	0620	Wed	11559	355 355 355 000 02046 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	23-9	0640	Wed	13559	355 355 355 000 02046 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	29-9	1900	Tue	11576	542 542 542 000 07833 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	29-9	1920	Tue	10476	542 542 542 000 07833 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	29-9	1940	Tue	9276	542 542 542 000 07833 00001 00000 10140	MFSK-20/10Bd	(AB/MPJ)
XPA	30-9	0600	Wed	10359	355 1 03050 00229 13340 ... 87419 67202 27704	MFSK-20/10Bd	(AB)
XPA	30-9	0620	Wed	11559	355 1 03050 00229 13340 ... 87419 67202 27704	MFSK-20/10Bd	(AB)
XPA	30-9	0640	Wed	13359	355 1 03050 00229 13340 ... 87419 67202 27704	MFSK-20/10Bd	(AB)
XPA2	1-9	1800	Tue	14538	01464 00001 00000 10140	MFSK-16/20Bd	(MPJ/HFD)
XPA2	1-9	1820	Tue	13538	01464 00001 00000 10140	MFSK-16/20Bd	(MPJ/HFD)
XPA2	1-9	1840	Tue	12138	01464 00001 00000 10140	MFSK-16/20Bd	(MPJ/HFD)
XPA2	4-9	1500	Fri	16147	03631 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	4-9	1520	Fri	14947	03631 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	4-9	1540	Fri	14447	03631 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	4-9	1900	Fri	16167	03830 00001 00000 10140	MFSK-16/20Bd	(MPJ/HFD)
XPA2	4-9	1920	Fri	14663	03830 00001 00000 10140	MFSK-16/20Bd	(MPJ/HFD)
XPA2	4-9	1940	Fri	13923	03830 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	12-9	1900	Sat	16167	06977 00123 29666 23211 04818 60162 02250 09133 68586 86260 ...	MFSK-16/10Bd	(AB)
XPA2	12-9	1920	Sat	14663	06977 00123 29666 23211 04818 60162 02250 09133 68586 86260 ...	MFSK-16/10Bd	(AB)
XPA2	12-9	1940	Sat	13923	06977 00123 29666 23211 04818 60162 02250 09133 68586 86260 ...	MFSK-16/10Bd	(AB)
XPA2	13-9	1500	Sun	16147	06149 00149 00491 ... 11209 00147 34431	MFSK-16/20Bd	(AB)
XPA2	13-9	1520	Sun	14947	06149 00149 00491 ... 11209 00147 34431	MFSK-16/20Bd	(AB)
XPA2	13-9	1540	Sun	14447	06149 00149 00491 ... 11209 00147 34431	MFSK-16/20Bd	(AB)
XPA2	13-9	1800	Sun	14538	02062 00079 71299 ... 57700 61009 45157	MFSK-16/20Bd	(AB)

Code	Date	UTC	Day	Freq.	Details	Mode	Ctrb
XPA2	13-9	1820	Sun	13538	02062 00079 71299 ... 57700 61009 45157	MFSK-16/20Bd	(AB)
XPA2	13-9	1840	Sun	12138	02062 00079 71299 ... 57700 61009 45157	MFSK-16/20Bd	(AB)
XPA2	22-9	1800	Tue	14538	08053 00091 90355 ... 37984 74622 33267	MFSK-16/20Bd	(AB)
XPA2	22-9	1820	Tue	13538	08053 00091 90355 ... 37984 74622 33267	MFSK-16/20Bd	(AB)
XPA2	22-9	1840	Tue	12138	08053 00091 90355 ... 37984 74622 33267	MFSK-16/20Bd	(AB)
XPA2	29-9	0700	Tue	17429	09057 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	29-9	1800	Tue	14538	04826 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	29-9	1820	Tue	13538	04826 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	29-9	1840	Tue	12138	04826 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)

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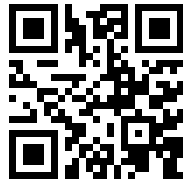
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 423 87629 37677 32612 53498 71296 28756 18276 98716 87
 7269 76364 74698 76857 98670 27681 56701 57601 73648 11
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 8 63298 75698 27465 87326 49876 28376 81273 98615 0
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 17 68768 68763 34234 34238 68768 62342 48273 88768 23
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