

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	43206	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
976	87698	69876	87698	69876	87612	12341	34867	86798	632
867	43298	65656	56756	56123	32143	14321	32143	14321	321
81	32787	58765	76587	58765	76587	58765	76587	58756	765
75476	36543	54365	36543	54365	36543	54365	36543	54365	543

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #216, January 2016

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.

Welcome to the first N&O in 2016. Lots of transcripts and logs submitted by a number of faithful numbers dxers. The X06 logs database has also been updated and can be found on the N&O website. Enjoy and keep those loges coming !!

VOICE STATIONS



E06

4836 kHz, 07-01, 2030 UTC

321 237 20

06132 75514 79681 94217 21443 31441 81797 17512 62689 33103

48930 93432 25709 93628 48683 18809 85052 49870 63962 04884

237 20 00000



E07

8123/9323/10423 kHz, 02-01/06-01/09-01/13-01/16-01, 0700/0720/0740 UTC

134 1 123 42

29216 50219 68239 38144 88342 13038 72768 75490 58901 87831

59630 39932 14128 98966 89005 32580 07427 62024 81470 44154

84081 56984 77158 89063 48426 27589 30879 43337 55913 21752

26166 81711 10562 53251 16217 75058 94326 97465 93015 55578

26510 73992

000 000



E07a

5277 kHz, 06-01, 2120 UTC

825 1 11602 7516 71

98360 44321 13357 62360 40994 97666 33293 56631 90386 02090

56541 66317 02232 89219 05211 42148 85050 58363 89049 47279

21198 29798 00026 44611 33725 66957 49167 42950 21025 88845

38189 82153 01492 93310 41248 27626 55989 60691 02885 02582

40073 12080 41148 30166 83425 54079 45044 11745 99963 87520

57585 53124 62780 39189 55555 46458 06156 60216 35844 42867

95580 30093 97233 47133 79419 94757 18841 44974 43180 58168

51548

000 000

5832 kHz, 15-01, 1650 UTC

688 1 32511 613 65
34090 44631 75042 19719 14797 62543 53517 52587 16103 24659
47798 73789 01004 26625 70083 18025 18979 63760 53649 00529
37994 72102 80314 87093 30289 94700 07375 19137 46249 25797
41255 59271 40863 37478 34805 89424 10811 41090 55301 89210
84627 33245 11117 24266 68508 49251 41495 43078 99644 53693
53791 19732 64770 40867 05686 36971 19344 94317 49911 31814
33097 44599 72959 96271 59817
000 000

5877/5277/4577 kHz, 20-01, 2100/2120/2140 UTC

825 1 16663 5808 77
26844 79958 85809 52670 92803 36793 33635 63414 22561 46908
12705 39705 28418 75075 30986 02873 41751 94986 32098 16763
60768 38560 57683 30121 42688 40134 26384 17716 53664 89036
34343 54495 57018 66104 84917 61362 67951 42329 31157 38006
12966 92254 59092 96674 31810 04579 33360 24453 90958 72357
85649 73928 62084 68625 39684 13171 86480 36433 00120 62920
24502 48231 26149 52328 59458 14215 55538 99730 16495 54179
67667 97854 36759 01485 62734 20334 66374
000 000



E11/E11a

10800 kHz, 05-01, 0710 UTC

634/32 Attention
26109 18586 86481 11505 41608 69882 87601 19408 02538 66325
72685 42838 01698 83091 15618 27252 17229 28504 65915 94167
66945 02806 89935 57894 69710 12631 63195 62960 21453 03064
97663 52210
Attention, rpt msg, out

10213 kHz, 11-01, 0745 UTC

262/38 Attention
69483 49377 06538 15243 30808 85206 33462 12116 59602 99276
05046 87404 20271 70754 21765 14683 05041 71851 86542 37064
21747 12149 98545 45757 39331 56580 07570 58119 42064 61390
10224 06366 07198 05768 54157 00692 44343 10387
Attention, rpt msg, out

9446 kHz, 11-01/15-01, 0830 UTC

469/36 Attention
59899 39860 92581 85568 04915 69517 30434 98723 21422 52516
60150 11342 40624 34861 23405 18083 96949 23369 26241 73311
29449 00952 75586 04326 10599 01435 45576 05881 59210 18872
02255 58999 22647 16424 09412 36232
Attention, rpt msg, out

9446 kHz, 11-01/13-01, 0900 UTC

537/39 Attention

06932 31585 65917 66013 76077 90769 98247 42577 93728 57966
95002 82807 63135 32800 65103 86505 53656 60404 04978 91520
51168 45238 18395 97939 34683 99205 30180 35869 15500 04142
06743 19779 10112 27930 76186 66815 05609 19371 55387

Attention, rpt msg, out

15632 kHz, 11-01, 1540 UTC

226/36 Attention

47683 47579 43543 72140 33786 49217 08051 36593 24845 09055
55942 43657 42910 16585 19144 51942 55534 55942 43657 42910
30377 96059 94778 70457 40050 45411 94778 88062 84417 56728
88877 44697 01686 49277 49217 08051

Attention, rpt msg, out

5082 kHz, 14-01, 1730 UTC

413/35 Attention

01897 76090 85855 71053 28789 51957 71423 15629 28540 23172
27142 98630 90950 11902 40779 53786 58059 78423 91846 64237
27831 70450 00933 63623 70887 40942 73908 35563 85979 59328
10722 28808 88947 19168 26298

Attention, rpt msg, out

16112 kHz, 19-01, 0745 UTC

332/34 Attention

65419 18092 98945 52317 18523 47399 75406 84200 17881 55449
68756 50261 25365 96108 11638 49165 08370 74385 49615 54585
48335 74078 57816 90240 50735 00933 33570 78758 84807 18701
06148 17858 97150 78929

Attention, rpt msg out

7840 kHz, 26-01, 0645 UTC

518/36 Attention

22937 69976 01827 22752 50622 53771 57126 33620 01532 20275
97883 15580 50362 88568 16371 01723 10709 78102 70117 50626
65751 92943 61273 82827 58017 07859 26040 94501 62903 90136
18900 61537 68763 54909 15092 32510

Attention, rpt msg, out

7984 kHz, 26-01/27-01, 1205 UTC

461/35 Attention

27610 91153 37299 55050 79715 85509 34858 62438 02257 02284
93817 92879 14921 11618 43611 65442 31318 08573 83886 90296
94479 87652 18544 89123 54385 60087 79518 06063 84927 23825
92495 84824 53970 64454 71686

Attention, rpt msg, out



E17z

11170/9820 kHz, 07-01, 0800/0810 UTC

674 251 8 48075 38765 84829 85551 90045 99375 00015 65904 251 8 00000



E25 / E25a

6140 kHz, 02-01, 1140 UTC Male operator - live. 950 Message (2x) 1031 6743 7811 5081 3533 0325 2959 3741 5551 8895 5003
3794 7811 Rebeat (3x), msg rpt

6140 kHz, 03-01, 1220 UTC ID 950, same male voice as 2 Jan. Too weak to copy the message



G06

5230 kHz, 04-01, 0758 UTC

329 329 329 00000 (2 mins early)

4460 kHz, 07-01, 1300 UTC, odd message.

Copied and recorded by qsr711. Recording on the N&O website
000000 (1x)

3329 3299 33299 000000000 (R3m30s)

3329

3696 kHz, 10-01, 1658 UTC

574 574 574 00000. At 1656 UTC: 111. Starts 2 mins early

4562 kHz, 11-01, 1758 UTC

574 574 574 00000. At 1752 UTC: 111. Starts 2 mins early

4519 kHz, 14-01, 1827 UTC, (2,5 mins early)

271 215 24

32144 92249 99927 83591 58271 54424 64274 37821 75361 67479

75779 52862 52956 65581 69926 35128 52400 24268 98414 96284

32225 69145 74845 35749

215 24 00000

4792 kHz, 15-01, 1930 UTC

436 271 20

14259 22676 32782 32782 76723 89409 12215 74326 64070 90235

38085 59543 12319 74238 36664 12256 18841 73311 98089 12250

271 20 00000

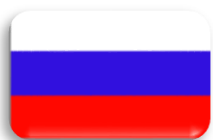
4519 kHz, 28-01, 1830 UTC

271 20

14259 22676 32782 32782 76723 89409 12215 74326 64270 90235

38285 59543 12319 74238 36664 12256 18841 73311 98089 12252

271 20 00000



S06

8085/6827 kHz, 10-01, 1000/1030 UTC

480 357 46

61188 95389 50048 29275 46166 33523 55941 82452 21222 19101

18485 00621 22894 94543 02359 17202 33903 47724 14863 70931

67461 66089 57923 15689 38290 64137 99288 71561 84703 48826

40681 18838 64157 50440 33147 78759 64791 17214 63791 24926

19009 37644 43254 57917 06973 93248

357 46 00000

16243 kHz, 21-01/22-01, 0830 UTC

842 137 40

40282 03586 86850 58236 22048 58338 65146 46888 23705 27427

78565 73675 55236 12655 20609 53549 93577 02624 78850 72203

11328 50007 90053 05427 92270 72907 15706 90507 07145 21483

63893 29380 48113 44028 88468 28191 05361 63702 41432 02984

137 40 00000

16243/13469 kHz, 28-01, 0830/0930 UTC

842 609 41

34759 52865 55868 57106 38663 69604 96639 01325 36456 16575

94097 64409 44833 93059 98626 43189 47431 89668 00462 49746

84218 79080 02137 67435 00374 04150 77762 40997 65561 18060

92545 67927 99562 56216 81008 83311 65189 44565 07333 55305

14419

609 41 00000



S11a

12530 kHz, 04-01, 1015 UTC

472/39 Vnimanie

69533 58138 99278 54658 66328 94795 72498 19305 89067 44230

02309 13323 16350 25614 38357 75005 91132 82295 41354 49665

52357 00531 39640 86354 24784 13324 40644 56624 12639 90609

03388 13421 34116 46891 67961 86518 63059 53197 99538

Vnimanie, rpt msg, konec

9200 kHz, 12-01, 1625 UTC

435/32 Vnimanie

28030 13861 71107 63222 18047 57326 04503 41315 37753 15608
04785 36590 23902 89474 34853 00193 67697 58258 03110 57668
62808 98959 62096 14619 29479 80244 85663 29351 32765 27748
69218 54396

Vnimanie, rpt msg, konec

7504 kHz, 19-01, 0915 UTC

487/34 Vnimanie

52581 77053 81369 69367 65279 47021 64195 40173 85478 37503
10665 67640 73682 55108 39076 20601 11157 20103 17755 79402
04956 05233 99949 24677 31578 90001 06076 37228 59529 88909
56105 42195 62726 08157

Vnimanie, rpt msg, konec

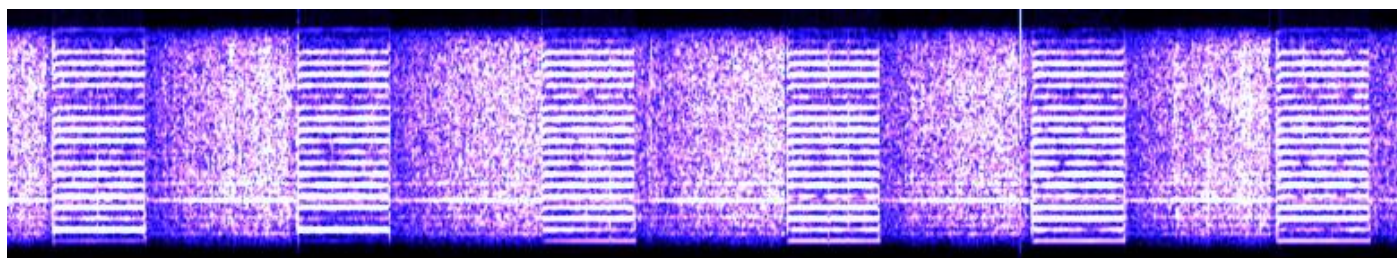


S28 - The Buzzer

Mode: USB

Frequency: 3216 & 4625 kHz

On 28 December the buzzer replaced collective callsign MDZhB with a new one: ЖУОЗ (ZhUOZ).



The Buzzer buzzing

Freq	Date	UTC	Details
4625	7-1	1255	ZhUOZ 99547 YeVTINIYa 91317265
4625	7-1	1555	ZhUOZ 90279 GYeL' 58703776
4625	10-1	1238	ZhUOZ 49441 SDANNYJ 45210065
4625	10-1	1241	ZhUOZ 25172 AGRYeKOLIT 65065058
4625	10-1	1527	Buzzer channel marker //6998 kHz
6998	10-1	1527	Buzzer channel marker //4625 kHz
4625	11-1	1300	ZhUOZ 80919 DVUKRAN 88518222
4625	11-1	1555	ZhUOZ 09508 OVChYeTINA 94737781 (bad audio)
4625	11-1	1711	ZhUOZ 15121 DV??VYJ 36579328 (bad audio)
4625	12-1	0850	1 2 3 4 5 6 7 8 9 10 Test count
4625	14-1	0752	ZhUOZ 84548 KVINOKAIN 53437200
4625	14-1	0959	ZhUOZ 39694 LIPAK 32264396
4625	14-1	1116	ZhUOZ 32943 TIL'DA 82381156
4625	14-1	1349	ZhUOZ 80474 DINGI 56770985
4625	14-1	1434	ZhUOZ 30191 TIMYeJKA 31033945
4625	14-1	1659	Buzzer channel marker //6698 kHz
6698	14-1	1659	Buzzer channel marker //4625 kHz
6998	21-1	0940	ZhUOZ 04976 EGRIDIF 80227322

Freq	Date	UTC	Details
4625	21-1	0946	ZhUOZ 17021 UGLYeRODNYJ 11872569
4625	21-1	1340	ZhUOZ 49091 AVTONOMIST 26674886 (Female talking in the background)
4625	21-1	1346	ZhUOZ 53289 AVTONOMNYaJ 76197976 (Signal read with error)
4625	21-1	1354	ZhUOZ 53289 AVTONOMNYJ 76197976 (Corrected signal re-sent)
4625	22-1	1232	ZhUOZ 00238 GIRLO 56096606
4625	22-1	1232	ZhUOZ 00238 GIRLO 56096606
4625	22-1	1234	ZhUOZ 73469 CIRKONAT 79843662
4625	22-1	1234	ZhUOZ 73469 CIRKONAT 79843662
4625	25-1	0614	ZhUOZ 5537 GYeOLOGiYa
4625	27-1	1718	ZhUOZ 6151 CYeNTIM
4625	28-1	0400	ZhUOZ VYPADYeNIYe 2068
4625	28-1	0402	ZhUOZ Emergency alarm command 125 (training)
4625	28-1	1247	ZhUOZ 38433 KIZYaK 31383304
4625	28-1	1248	ZhUOZ 49437 SIZAL' 35676945
4625	28-1	1500	ZhUOZ 6463 FYeNOKSILYeN
4625	28-1	1618	ZhUOZ 62951 OZORA 42785908
4625	28-1	1624	ZhUOZ 98617 TIGRICA 04316916
4625	28-1	1906	Buzzer channel marker
6998	28-1	1906	Buzzer channel marker
4625	30-1	0524	ZhUOZ 3134 PYeNSION



S30 - The Pip

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

Freq	Date	UTC	Details
3756	3-1	0456	BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR
3756	4-1	1723	49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch
3756	5-1	0458	Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU
3756	5-1	1440	TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ
3756	6-1	0501	SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY
3756	6-1	1617	JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4
3756	6-1	1821	HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP
3756	7-1	1222	8S1Shch 98169 GYeRBOPRAH 35377768
3756	7-1	1222	Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI
3756	7-1	1227	8S1Shch 22984 LOMOZUDA 25126725
3756	7-1	1553	8S1Shch 95104 KYeRSANTIT 87652884
3756	7-1	1626	42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh
3657	10-1	1704	Pip channel marker
3756	11-1	1405	8S1Shch 03255 35930 56291 BLAGOZVUCHiYe 87336331 LAZOSKOP 58057354
3756	11-1	1551	8S1Shch 02440 ZOVOPAYuS 70881696
3756	11-1	1708	8S1Shch 89694 INDOL 64978555
3756	11-1	1725	8S1Shch 84476 KONOVID 16445068
3756	12-1	1502	HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P
3756	12-1	1622	8S1Shch Weather warnings: V period s 12 po 13 yanvarya na territorii Krasnodarskogo kraya ozhidayutsya sil'nyye prolivnyye dozhd. A s 12 po 15 yanvarya na territorii Rostovskoy oblasti sil'nyye dozhd i potep-

Freq	Date	UTC	Details
			leniye do plyus 3 gradusov.)In the period from 12 to 13 January heavy rainfall is expected in the Krasno- dar region. And from 12 to 15 January heavy rains in the Rostov region The temperature increases to 3 degrees)
3756	12-1	1751	79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch
3756	12-1	1751	Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI
3756	13-1	0506	79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch
3756	13-1	1455	8S1Shch 92628 KYeRNOTRAL 28444899
3756	13-1	1500	8S1Shch 71325 KYeDROZAYaC 54366033
3756	13-1	1654	F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG
3756	14-1	0454	BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR
3756	14-1	1430	8S1Shch 92916 MYeNZUL'NYJ 82780306
3756	15-1	1852	49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch
3756	18-1	0522	ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh
5448	18-1	0530	8S1Shch 51480 JOTOPLYaS 90069299
3756	18-1	1608	'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V
3756	18-1	1629	8S1Shch 06378 KUSTOFARS 71827358
3756	18-1	1820	42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh
3756	19-1	0715	INNC FY5E F61N 37CN MUDR AGDT BO6C HCLF 61HZh 8CSchJ
3756	19-1	1753	27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS
3756	20-1	0530	Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch (First p
5448	20-1	0531	Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch (Second
3756	20-1	1412	DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR
3756	20-1	1715	7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA
5448	21-1	0540	ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ
5448	21-1	1320	KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27
5448	21-1	1338	8S1Shch 56954 MODYeLIZM 02944422
3756	21-1	1428	8S1Shch 11357 KLOPOMYS 41910035
3756	21-1	1650	V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV
3756	22-1	0805	8S1Shch 30378 KLYKOSchUP 02462238
3756	22-1	1222	8S1Shch 92888 KUPYe 13720273
3756	22-1	1230	8S1Shch 47322 MAL'ChUGAN 82503200
3756	22-1	1319	8S1Shch 27666 KYeTchUP 16466197
3756	22-1	1324	8S1Shch 65651 KOPYeNGAGYeN 76185051
3756	22-1	1808	TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3
3756	23-1	0454	AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1
3756	23-1	1911	61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM
3756	24-1	0505	6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ
3756	24-1	1422	ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO
3756	24-1	1816	TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N
5448	25-1	0531	37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C
3756	25-1	1608	PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z'
5448	26-1	0547	NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU
3756	26-1	1458	53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG
3756	26-1	1802	Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT
3756	27-1	0536	C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh
3756	27-1	1758	3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS
3756	28-1	0312	VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z
3756	28-1	0421	8S1Shch MODULYaCIYa 4567
3756	28-1	0431	8S1Shch MYeTODOLOG 9277
3756	28-1	1613	8S1Shch 80622 VODOLYuB 11795177

Freq	Date	UTC	Details
3756	28-1	1620	8S1Shch 21098 INKOBLYuM 04208062
3756	28-1	1659	8S1Shch BARKOPLAV 8767
3756	29-1	0349	8S1Shch KVYeLYJ 7957
3756	29-1	0349	8S1Shch KVYeLYJ 7957
3756	29-1	0417	5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM
3756	29-1	0417	5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM
3756	29-1	0429	8S1Shch DUShOShKAF 3596
3756	29-1	0429	8S1Shch DUShOShKAF 3596
3756	29-1	1512	8S1Shch ARAL'SKIJ 0638 January 29, 2016 04:29
3756	29-1	1648	FY5E F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B
3756	29-1	1705	8S1Shch LUGOSRUB 4318
3756	29-1	1832	OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV
3756	30-1	0512	81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL
3756	31-1	0455	Z7PM S7ZhG Z'1B C19V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch
3756	31-1	1419	DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR
3756	31-1	1744	7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA



S32 - Squeaky Wheel

Mode: USB

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

Freq	Date	UTC	Details
3828	3-1	1521	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-3
3828	7-1	1225	AL'FA-45 07045 VTUZ 65781025
3828	7-1	1231	AL'FA-45 02529 MATChOLYaZG 24958270
3828	7-1	1253	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34
3828	7-1	1420	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07
3828	7-1	1557	AL'FA-45 89240 GORISPOLKOM 24982157 with S30 in the background
3828	10-1	1703	Squeaky Wheel channel marker
3828	11-1	1414	AL'FA-45 80122 ARAVITYaNKA 71983811
3828	11-1	1556	AL'FA-45 37869 BOKOZhGUT 62841211. S30 in the background
3828	11-1	1713	AL'FA-45 18730 KUPYeChYeSKIJ 64243496
3828	11-1	1730	AL'FA-45 53161 BUYeKOZAGS 15341581
3828	11-1	1734	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 STOROZh-62 NYeVKA-2
3828	11-1	1756	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBL
3828	13-1	1502	AL'FA-45 89777 MARKSISTKA 58490017
3828	13-1	1509	AL'FA-45 02800 BANKOSLOJ 86787656
7009	14-1	0759	AL'FA-45 09746 BRyeDOLOG 25235875
7009	14-1	0808	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 KURGAN-40 DUBLYoR-6
7009	14-1	1000	AL'FA-45 30119 OBSYPANIYe 15004579
7009	14-1	1120	AL'FA-45 40771 ZAJMORYeJD 43235436
7009	14-1	1351	AL'FA-45 90163 MASTYeROK 21459856
3828	14-1	1600	STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39 RUZh'E-26 BIZON-6
3828	14-1	1600	STOROZh-62 NYeVKA-26 KARTA-11 UTyoS-94 KOVBOJ-39 RUZh'E-26 BIZON-6
3828	18-1	1604	SLIVA-94 OTPOR-89 ShULER-60 STAZHER-29 ZASLONKA-27 STOROZh-62
3828	18-1	1636	AL'FA-45 00569 KRYePOPLAC 07014452
3828	18-1	1736	NYeVKA-26 YaHTA-94 UTyoS-94 ALEUT-09 DZhIGIT-46

Freq	Date	UTC	Details
5473	21-1	1306	NYeVKA-26 YaHTA-94 UTYoS-94 ALEUT-09 DZhIGIT-46
5473	21-1	1343	AL'FA-45 43811 VOSSTANIYe 31209501
5473	21-1	1434	AL'FA-45 54355 IRAKOLAOS 99893800
5473	22-1	0809	AL'FA-45 75835 MYeROChNYJ 36907729
5473	22-1	1226	AL'FA-45 84529 KARIOGORN 29150219
5473	22-1	1234	AL'FA-45 85677 OGITOShKYeT 85003464 with S30 in the background
3828	22-1	1323	AL'FA-45 93825 BARDOFOT 99370220
3828	22-1	1328	AL'FA-45 25635 KOZYR' 14403219
3828	25-1	0441	AL'FA-45 96664 NYeUSTANNYJ 87964311 with S30 in the background
3828	25-1	1506	AL'FA-45 35212 NADShAHTNYJ 68290348
3828	25-1	1509	AL'FA-45 83193 DUVROPAYuS 95986875
3828	25-1	1608	SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62 RYeZ
3828	26-1	0346	AL'FA-45 41227 BYeZVYeRNYJ 59851246 with S30 in the background
3828	26-1	0354	AL'FA-45 67116 LIDSOZLAK 42014341 with S30 in the background
3828	26-1	0359	NYeVKA-26 YaHTA-94 UTYoS-94 ALEUT-09 ROSA-64 DZhIGIT-46 BIZON-64 P
3828	26-1	0359	AL'FA-45 03263 GRACHOShNYeK 79184962 with S30 in the background
3828	27-1	1418	BIZON-64 PYeSOChNYJ-21 LANDYSh-74 DUBLYoR-68 PYeNZ-07 KURGAN-40
3828	27-1	1529	AL'FA-45 98131 MUZYKANTShA 32972058
3828	27-1	1651	RYeZINA-38 KOVBOJ-39 STUPA-32 KARTA-11 FONTAN-34 RUZh'E-26
3828	27-1	1710	AL'FA-45 89713 KRABONYeUCh 14339677
3828	27-1	1714	AL'FA-45 95116 ZAMYeRZAYuShchIJ 85643541
3828	27-1	1805	AL'FA-45 70239 16981 DYuJMOPRUS 01754753
3828	27-1	1806	AL'FA-45 60992 28004 DYuJMOPRUS 04754753 repeat of previous signal
3828	27-1	1828	AL'FA-45 79157 YeHIDNYJ 45282887
3828	27-1	1859	AL'FA-45 59155 LYeSOChAS 21900976
3828	28-1	0424	AL'FA-45 MODULYaCIYa 4567 Relay of S30
3828	28-1	0432	AL'FA-45 MYeTODOLOG 9277 Relay of S30
3828	29-1	0429	AL'FA-45 DUHOShKAF 3596
3828	29-1	0429	AL'FA-45 DUHOShKAF 3596 Relay of S30
5473	29-1	0701	NYeVKA-26 YaHTA-94 UTYoS-94 ALEUT-09 ROSA-64 DZhIGIT-46
3828	31-1	1543	NYeVKA-26 ALEUT-09 SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA



S3850

Frequencies: 3850 kHz (night), 4940 kHz (day)

Mode: USB

Freq	Date	UTC	Details
3850	11-1	1719	BARON-78 25309 RYeNTNYJ 29447935
3850	11-1	1734	BARON-78 94225 LARGA 45460441 Sent for Tros-28, signal receiving c
3850	11-1	1737	BARON-78 KOVBOJ-35 test count and test
3850	13-1	0406	BARON-78 ZUBILO-08 POKOS-35 ARHIV-62 VYeKTOR-70 PIKYeT-80 LAGYeR'-
3850	13-1	1502	BARON-78 14923 KOFYeKTOMIN 73147254
3850	13-1	1509	BARON-78 90699 PROVOZhANIYe 52490334. Sent for Tros-28 in urgency
4940	12-1	0611	VYeTKA-42 TAMAN'-11 KUPLYeT-11 ALYeUT-11 KRUG-31 TULA-86 POLYuS-55



S4525

Frequency: 4524 kHz
Mode: USB

Freq	Date	UTC	Details
4524	7-1	2010	Marker (dash)
4524	10-1	1526	Channel marker (dash)

Freq	Date	UTC	Details
4524	14-1	1700	Channel marker (dash)
4524	28-1	1907	Channel marker (dash)



S5292

Frequencies: 5252 kHz USB

Date	UTC	Details
11-1	2107	Defective marker D sending badly formed S
12-1	0807	Marker D
14-1	1431	Marker D
20-1	0830	BARZHA-08 90183 BYLINA 53579564
20-1	1316	BOYeC-43 73091 POVYeRIYe 54689654. Count before the message
26-1	0728	VIZIR-21 47592 AGITPUNKT 42369980
26-1	1318	TRYeL'-31 38740 IZBIRATYeL'NOST' 53258579
28-1	1907	Channel marker D



S6930

Frequency: 6930 kHz
Mode: USB

6998 kHz, 28-12-2015, 0907 UTC KATOK-65 50800 NIShA 32237844. Katok-65 on the wrong freq!



V07

16037/14637/12137 kHz, 24-01, 0100/0110/0120 UTC

661 661 661 1 339 85
70002 37538 13784 79341 90128 27738 83238 77288 23299 25935
83319 20557 18881 81935 48424 02525 30351 41837 23910 85019
77319 31395 42803 99483 24387 23335 83042 59039 03377 33522
78370 24478 25035 34553 42500 33299 04781 33489 33545 21725
43341 14548 59218 29295 70058 73829 30822 23273 53178 12720
57237 73032 30305 70349 33134 02735 55473 03822 02810 01303
41734 03932 51745 27253 89405 40270 50834 09919 85547 90582
93012 38353 74593 73373 83989 52757 00323 27190 03544 18345
23791 51937 15138 21834 75373
000 000



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

Current schedules:

15388 kHz New Star Broadcasting #1 0200 UTC
15388 kHz New Star Broadcasting #1 0300 UTC
15388 kHz New Star Broadcasting #2 0400 UTC
9522 kHz New Star Broadcasting #4 0500 UTC
9522 kHz New Star Broadcasting #4 0600 UTC

15250 kHz New Star Broadcasting #3 0700 UTC
15250 kHz New Star Broadcasting #3 0800 UTC
7502 kHz New Star Broadcasting #4 1200 UTC
7502 kHz New Star Broadcasting #4 1300 UTC

Logs:

Freq	Date	UTC	Station
7502	1-1	1200	New Star #4
7502	4-1	1204	New Star #4 i.p.
7502	8-1	1300	New Star #4
15250	9-1	0700	New Star #3
15250	9-1	0800	New Star #3
7502	9-1	1200	New Star #4
7502	9-1	1300	New Star #4
15250	10-1	0700	New Star #3
15250	10-1	0800	New Star #3
9522	12-1	0600	New Star #4
15250	12-1	0700	New Star #3
15388	13-1	0400	New Star #2
9522	13-1	0517	New Star #4 i.p.
9522	13-1	0600	New Star #4
15250	13-1	0800	New Star #3
7502	13-1	1200	New Star #4
7502	13-1	1300	New Star #4
9522	14-1	0502	New Star #4 i.p.
9522	14-1	0611	New Star #4 i.p.
15250	14-1	0700	New Star #3
15250	14-1	0812	New Star #3 i.p.
7502	14-1	1200	New Star #4
7502	14-1	1305	New Star #4 i.p.
9522	15-1	0500	New Star #4
9522	15-1	0600	New Star #4
15250	15-1	0700	New Star #3
15250	15-1	0800	New Star #3
7502	15-1	1200	New Star #4
9522	16-1	0600	New Star #4
9522	18-1	0600	New Star #4
15250	18-1	0700	New Star #3

Freq	Date	UTC	Station
7502	18-1	1200	New Star #4
7502	18-1	1305	New Star #4. Late start
15250	19-1	0700	New Star #3
15250	19-1	0800	New Star #3
15250	20-1	0700	New Star #3
15250	20-1	0800	New Star #3
7502	20-1	1200	New Star #4
7502	20-1	1300	New Star #4
7502	21-1	1200	New Star #4
7502	21-1	1300	New Star #4
9522	22-1	0618	New Star #4 i.p.
15250	22-1	0700	New Star #3
7502	22-1	1210	New Star #4 i.p.
7502	22-1	1300	New Star #4
15250	23-1	0700	New Star #3
15250	23-1	0800	New Star #3
7502	23-1	1300	New Star #4
7502	25-1	1200	New Star #4
7502	25-1	1300	New Star #4
15250	27-1	0800	New Star #3
15250	28-1	0700	New Star #3
7502	28-1	1200	New Star #4
7502	28-1	1300	New Star #4
9522	29-1	0600	New Star #4
15250	29-1	0700	New Star #3
9522	30-1	0600	New Star #4
15250	30-1	0700	New Star #3
15250	30-1	0800	New Star #3
7502	30-1	1200	New Star #4
7502	31-1	1200	New Star #4



V26

Freq	Date	UTC	Details
4283	12-1	1309	yl/CC 3f, broken English letters, end 1344z
7553	11-1	0922	Messages
7553	12-1	1309	yl/CC 3f, broken English letters, end 1344z
8073	4-1	0022	Same message as M95. Male operator
8073	7-1	0016	Message. Female operator
8073	8-1	1130	Callup. Male operator
8073	8-1	1157	Repeats M95/Q26 messages. Female operator
8073	11-1	0001	Voice callup. Female operator
8073	13-1	0001	Voice callup. Male operator
8073	16-1	0001	Callup. Male operator
8073	16-1	1128	Callup. Male operator
8073	19-1	0001	Callup. Male operator
8073	24-1	0001	Voice callup. Male operator
8073	24-1	0019	Male operator. Repeats M95/Q26 message
8073	24-1	1204	Female operator. Repeats M95 message
8073	25-1	0001	Callup. Male operator
8073	27-1	1129	Callup in voice, male operator
8073	29-1	0017	Message. Male operator
9153	12-1	1100	i.p. female operator
9153	12-1	1309	yl/CC 3f, broken English letters, end 1344z
9153	20-1	1030	i.p. Female operator



V28

앵무새 'AengMuSae
(Parrot)

Pon09017 reports that V28 has not been heard in 2016. It either moved to other frequencies or ceased its activities.

A recording of the transmission from 31-12 at 1338 UTC can be found here:

<https://www.youtube.com/watch?v=kn-QHlwL8CE&feature=youtu.be>

However on 20 January a Japanese dxer reports that the station is still alive, now with schedules between ca 0928 and 0950 UTC. bclman captured a couple of the new skeds. He also uploaded the recordings.

3277 kHz, 21-01, 0930-0940UTC	https://youtu.be/V5MS4yngI9w
3690 kHz, 21-01, 0930-0940UTC	https://youtu.be/PWgBCWltU7M
3080 kHz, 21-01, 0937-0945UTC	https://youtu.be/iJq4EY3j5CY
	https://youtu.be/ohAPigHlHwc
3083 kHz, 22-01, 0931-0939UTC	https://youtu.be/cMB9Wxs3CXU
3156 kHz, 22-01, 0934-0943UTC	https://youtu.be/naHvWGJOklg
3689 kHz, 22-01, 0929-0938UTC	https://youtu.be/kNF0gXpolQI
3277 kHz, 22-01, 0928-0939UTC	



VC01 - Chinese Robot Chinese Air Defense

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

3036, 3679, 3749, 3837, 4075, 4258, 4343, 4410, 4422, 4427, 4480, 4530, 4580, 5006, 5195, 5232, 5288, 5303, 5328, 5330, 5393, 5592, 5700, 5742, 5802, 5832, 6209, 6479, 6771, 6840, 6858, 6860, 6949, 6960, 7090, 7351, 7506, 7608, 7684, 7726, 7739, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 7938, 8000, 8025, 8170, 9000, 9169, 9192, 9209, 9290, 9340, 10508 kHz.

Freq	Date	UTC	Freq	Date	UTC	Freq	Date	UTC
5006	22-1	1301	7506	9-1	1300	7506	31-1	1300
5006	23-1	1258	7506	11-1	1101	9209	18-1	2345
5006	24-1	1255	7506	13-1	1200	9209	20-1	0808
5006	25-1	1229	7506	13-1	1300	9209	20-1	1019
5006	25-1	1327	7506	15-1	1200	9209	22-1	0623
5006	26-1	1202	7506	18-1	1200	9209	25-1	0626
5006	26-1	1307	7506	18-1	1300	9209	26-1	0700
5006	28-1	1210	7506	20-1	1200	9209	27-1	0703
5006	28-1	1306	7506	20-1	1300	9209	28-1	0703
5006	30-1	1202	7506	24-1	1255	9209	29-1	0603
5006	31-1	1203	7506	25-1	1229	9209	30-1	0604
5006	31-1	1300	7506	28-1	1210	9209	30-1	0800
7506	8-1	1302	7506	30-1	1202	9209	21-1	0154
7506	9-1	1200	7506	31-1	1203			

MORSE STATIONS



MX

Russian Military beacons

Current cluster frequencies:

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

Other frequencies:

L 5156.8, 6917.5, 8497.8 kHz

V 3658, 4150, 6809, 6928, 7027.5 kHz

R 5466 kHz

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

Cluster beacon slots:

.7 "D", Sevastopol

.8 "P", Kaliningrad

.9 "S", Severomorsk

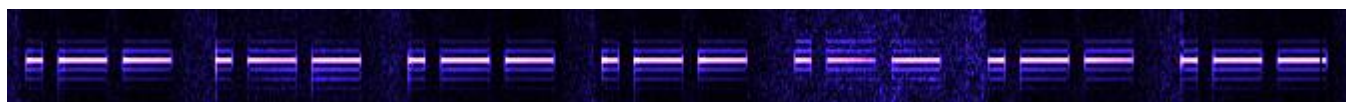
.0 "C", Moscow

.1 "A", Astrakhan (inactive)

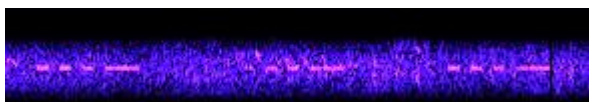
.2 "F", Vladivostok

.3 "K", Petropavlovsk Kamchatskiy

.4 "M", Magadan



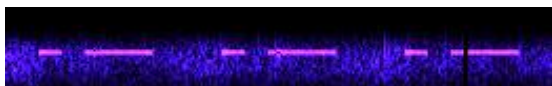
W-marker. Tu Bear net on 8112 kHz



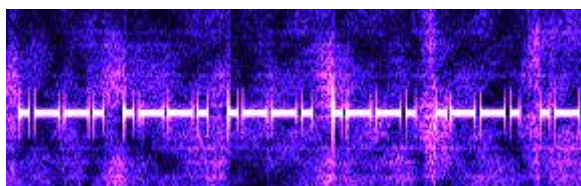
Beacon V



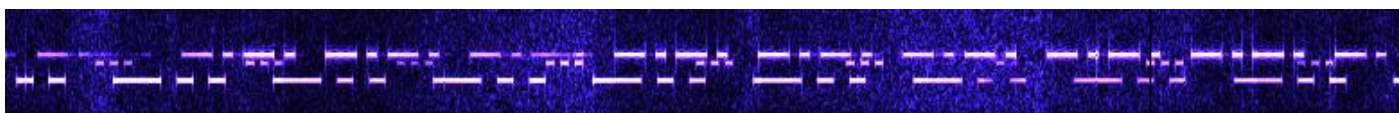
Beacon L



After a long absence beacon A was finally on the air again



Beacon P under Stanag



Beacons D, S and C In progress.



M01

5465 kHz, 03-01, 0700 UTC

197 178 30 = =

17593 30413 93601 36148 92401 61515 09757 53031 99386 98604

85989 90684 20505 53428 18583 78330 81154 87345 69689 51205

55943 54137 88004 49742 88345 42333 37497 56055 34817 40953

= = 178 30 000

5320 KHz, 07-01, 1800 UTC

197 234 30 = =

72417 91524 29290 x4049 86383 xxx92 35582 92175 78974 04578

12033 x2091 69240 81329 80327 x0333 60377 23498 77399 42141

22050 45386 95822 013x2 04057 21784 86041 47088 04160 01162

= = 234 30 000

4490 kHz, 07-01, 2000 UTC

197 707 30 = =

45010 35684 34344 85826 04522 72232 11459 64162 10076 17887

88619 56977 08935 99954 26733 00968 05814 66130 70680 43949

99297 00254 90600 97631 36677 87589 96234 40243 86205 17385 *)

= = 707 30 000

*) first sent as 173385 and repeated as 17385

5810 kHz, 09-01, 1500 UTC

197 (R) 891 30 = =

69980 81631 74895 92216 97133 80390 41432 60391 62074 43856

82299 33942 18137 55281 85065 67160 37711 67371 43681 62530

92227 61178 44063 93654 55778 63436 67958 77918 80237 85422

= = 891 30 000

5320 kHz, 21-01, 1800 UTC

197 38 Es (no preamble-groups once)

83073 81183 14239 47072 85223 ... 24103 28763 49833 54576 55022 = =

183 30 000.

Started groups twice somewhere in the middle. Unusual sked even by M01 standards !

5810 kHz, 23-01, 1500 UTC, includes several mistakes

197 (R) **157 846 846 30 846 30 30** = =

35796 35796 67483 67483 20502 20502 00266 00266 98325 98325

46126 46126 72485 72485 64858 64858 26206 26206 64111 64111

07727 07027 01786 01786 02769 02769 41282 41282 68610 68610

96933 96933 64732 64732 83344 83344 35562 35562 **48935 84935**

07158 07158 51772 51772 02769 02769 41282 41282 68610 68610

96933 96933 67432 67432 83344 83344 35562 35562 84935 84935

= = 846 846 30 30 000



M01c

10651 kHz, 05-01, 0711 UTC

297 297 297 37930 37930 (R) ended abruptly

10651 kHz, 05-01, 0715 UTC

297 297 297 38651 38651 (R) ended abruptly

9151 kHz, 05-01, 0719 UTC

728 728 728 45890 45890 (R) ended abruptly

9151 kHz, 05-01, 0723 UTC

728 728 728 47237 47237 (R) ended abruptly

9151 kHz, 05-01, 0727 UTC

333

9067 kHz, 17-01, 1317 UTC

273 273 273 13257 13257

9067 kHz, 17-01, 1324 UTC

273 273 273 16677 16677

9067 kHz, 17-01, 1329 UTC

999 784 33 = 784 33 =

83428 _1727 33373 30953 83426 38344 33014 33730 88962 82882

80144 33956 43871 43498 ___54 89083 89348 49425 30489 34132

33365 47183 81326 _____ 94323 45547 48082 39581 44356 37676

48992 45648 34061 =

784 33 = 784 33 = 273 273 273 000 273 273 273 000 273 273 273 000

2317 kHz, 20-01, 1809 UTC

257 257 284 66 257 257 284 66

111

333 01

333 04

111 000

2656 kHz, 20-01, 0505 UTC	132 132 132 19251 19251 132 132 132 19251 19251 132 132 132 19251 19251 132 132 132 19251 19251 132 132 132 18319 18319 132 132 132 18319 18319 132 132 132 18319 18319 132 132 132 18319 18319 132 132 18319 18319 132 132 132 18319 18319 132 132 132 18319 18319 132 132 132 183
2656 kHz, 20-01, 0514 UTC	4001 132 132 132 132 111 000
2287 kHz, 24-01, 1755 UTC	873 873 873 393 27 000



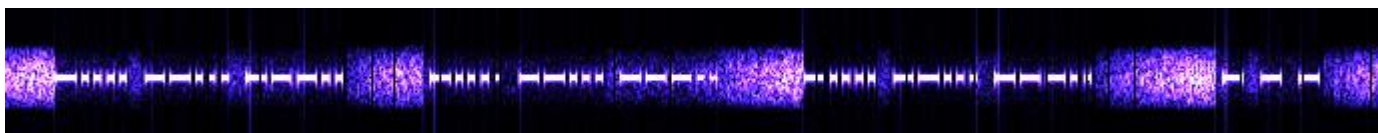
M12

13369 kHz, 14-01, 1010 UTC

369 1 (R) 5953 67
00867 88253 14340 43555 17146 76339 93456 94528 70880 68905
08894 81937 11752 77819 07412 86054 18459 67228 28552 18123
08893 27343 74247 20483 31426 99873 39642 55108 71834 62845
59390 84305 92869 90961 23844 27862 15203 78536 20556 52011
02433 76268 77895 69266 84393 17980 72123 95027 35860 92873
46265 39026 71676 09622 46513 85405 35126 93950 16210 54371
34723 66214 30353 36838 65467 74070 79517
000 000

13386/12189/11491 kHz, 14-01, 1500/1520/1540 UTC

725 1 (R) 6971 120 6971 120
33326 88736 31125 13573 26669 32540 70492 52023 77625 64445
41440 11981 88090 99677 83412 27438 16739 80579 88154 86821
43992 97498 67512 27794 44514 53781 36686 02929 59491 40769
63806 80232 51956 22382 33863 76230 13157 84432 95773 03948
63215 75181 49819 73506 77477 13372 66930 26240 86899 53960
77444 35262 89074 53445 08868 25025 91150 61973 84674 45279
91755 00896 39119 99709 93099 65566 66098 57510 57480 84762
69953 23595 39698 40080 79264 04828 72508 40012 87266 25201
74456 07620 96573 79316 20841 98454 40045 72668 01552 51348
42092 79464 39746 37279 09797 94145 00829 71081 47623 30776
39306 57809 70434 84967 70397 20555 53067 36181 90984 27377
90919 52134 12397 41599 60410 12430 11155 38414 21455 65494
000 000



678 678 678 000 on 23-01, 1310 and 1330 UTC



M14

5430 kHz, 02-01, 0800 UTC, with errors

171 279 15
 98712 56767 43244 99934 12213 48221 66655 77455 43214 90989
 34567 05058 71236 98123 63810 65567
 279 15 9 E 8888 9 E 8888 9 E 8888

5430/5560 kHz, 09-01, 0800/0900 UTC

171 (R) 272 15
 89205 78127 55945 77806 11321 16210 52217 69205 15324 53746
 76089 76201 62189 67220 16014
 272 15 00000

4636 kHz, 12-01, 1820 UTC

186 1 569 15
 11090 38276 68675 11652 79183 39910 67182 55713 70193 57126
 50192 16732 49003 55176 28196
 569 15 00000.

4761 kHz, 13-01, 1920 UTC

748 569 15
 11090 38276 68675 11652 79183 39910 67182 55713 70193 57126
 50192 16732 49003 55176 28196
 569 15 00000

5430 kHz, 16-01, 0800 UTC, no zero's at the end. Same message as 2 Jan.

171 279 15
 98712 56767 43244 99934 12213 48221 66655 77455 43214 90989
 34567 05058 71236 98123 63810 65567
 279 15

4761 kHz, 27-01, 1920 UTC, errors

748 569 15
 11090 38276 68675 11652 79183 39910 67182 55713 70193 57126
 50192 16732 49003 55176 28196
 56 15 00000

5430 kHz, 30-01, 0800 UTC, errors

171 (R) 722 72 115 15
 89205 89205 88127 78127 55945 55945 77806 77806 11321 11321
 16210 16210 52217 52217 69205 69205 15324 15324 53746 53746
 76089 76089 76201 76201 62189 62189 67220 67220 17014 17014
 272 272 15 15 00000

0806 UTC

0571 78870 68857 63530 19721 90992 51797 37098 49525 14057
64208 19778 15629 26714 66895 5245U

0811 UTC

..---- 2 21969 14915 26141 2611



M21 + variants
Russian Air Defence Forces
Во́йска ПВО Voyska PVO

5980.5 kHz, 06-01, 0655 UTC
4951.5 kHz, 07-01, 0426 UTC
4951.5 kHz, 20-01, 1931 UTC

=990954??8???? =990955??8???? =990956??8???? =990957??8????
=990826??0???? =990827??0???? =990828??0???? =990829??0????
=992231??0????



M41
Russian Air Defence Forces
Во́йска ПВО Voyska PVO

4000 kHz, 04-01, 0530 UTC 5EQB 5EQB 5EQB AR

Note the difference in format.

2786.5 kHz, 10-01, 1748 UTC

722 194 95119979179128722701940
RPT 722 194 95119979179128722701940 K
2G2W R 722 194 95119979179128722701940 K
R K
MI4P R 722 194 95119979179128722701940 K
R K

2786.5 kHz, 14-01, 1614 UTC

VVVV VVV VVV VVV K
WMPA 722194 95039 98 9693151 7000 18 05
722194 95039 98 9693151 7000 18 05 K
HFNK R 722194 95039 98 9693151 7000 18 05 K
2MKX R 722194 95039 98 9693151 7000 18 05 K
R K



SIGINT station Eemnes, The Netherlands



M89 - Chinese military

Notes:

Since 16 Jan 16, 2SLC, RIS9, and ALSK have all been N/H on known frequencies. Have noticed some Exercise activity, but have been unable to monitor as I'm presently traveling. So these stations may be taking part in a communication exercise (which would possibly link them together), or we've had a frequency change for these stations.

A new station popped up using the same format as NYZ and FXM. So we now have:

VVV 3Z9 3Z9 3Z9 DE ZN4 ZN4 QSA ? QSV K

VVV WNF WNF WNF DE FXM FXM QSA ? QSV K

VVV Q2M Q2M Q2M DE NYZ NYZ QSA ? K

Stations and strings:

V A7TR A7TR A7TR DE DI9Q DI9Q	V RA5J RA5J RA5) DE BP2S BP2S	V FJ4B FJ4B FJ4B DE D4MR D4MR
V 5RAB 5RAB 5RAB DE M9AB M9AB	V RXP7 RXP7 RXP7 DE CZT2 CZT2	V SNT9 SNT9 SNT9 DE D3MR D3MR
V 7NPE 7NPE 7NPE DE QV5B QV5B	V S2LZ S2LZ S2LZ DE YBA6YBA6	V DF4J DF4J DF4J DE D3MR D3MR
V 6TRW 6TRW 6TRW DE J9NS J9NS	V SR3H SR3H SR3H DE FGH8 FGH8	V 43A 43A 43A DE A34 A34
V 7NPE 7NPE 7NPE DE QV5R QV5R (faulty txm)	V SXL6 SXL6 SXL6 de 9QFZ 9QFZ	V K6EN K6EN K63N DE D3MR D3MR
V 8CPZ 8CPZ 8CPZ DE XW6W XW6W	V TKLO TKLO THLO DE TYUI TYUI	VVV 3Z9 3Z9 3Z9 DE ZN4 ZN4
V 8DKB 8DKB 8DKB DE ODY8 ODY8	V TY9D TY9D TY9D DE EOX2 EPX2	TQSJ TQSJ DE WECJ WECJ
V 8PEX 8PEX 8PEX DE TI5F TI5F	V VTX7 VTX7 VTX7 DE TZ7B TZ7B	CFQY DE WECJ WECJ
V BNGC BNGC BNGC DE XSV85 XSV85	V VXL1 VXL1 VXL1 DE XIW2 XIW2	VINH DE WECJ
V BIQ9 BIQ9 BIQ9 DE ISL2 ISL2	V WZG6 WZG6 WZG6 DE 4VTG 4VTG	C8FH DE EWED
V BRH0 BRH0 BRH0 DE 8NGG 8NGG	V YUQW YUQW YUOQ DE ASDF ASDF	HK8F DE EWED
V B9SR B9SR B9SR DE AL6R AL6R	V ZRM7 ZRM7 ZRM7 DE LCM0 LCM0	DP7791
V CQ CQ CQ DE DP91 DP91	V N4FM5 N4FM5 N4FM5 DE DUT491 DUT491	DP7391
V CQ CQ CQ DE DP0491 DP4091	V Q5U8 Q5U8 Q5U8 DE 8QPP 8QPP	DP7491
V DKG6 DKG6 DKG6 DE 3A7D 3A7D	V QHV8 QHV8 QHV8 de 8QPP 8QPP	DP7091
V DKSL DKSL DKSL DE ALSK ALSK	VVV Q2M Q2M Q2M DE NYZ NYZ	DP7691
V DKIL DKIL DKIL DE ALSK ALSK (faulty txm)	V DKSL DKSL DKSL DE ALSK ALSK	0HPQ DE CHBR
V DP9J DP9J DP9J DE CQ CQ	V 3A3J 3A3J 3A3J DE B4ZJ B4ZJ	GKBU DE OJMR
V EI0B EI0B EI0B DE JHG2 JHG2	V HER6 HER6 HER6 DE WU6L WU6L	OGNX
V GKLO GKLO GKLO DE TYUI TYUI	V BR3S BR3S BR3S DE JU9D JU9D	OAGOV DE 4PQT
V GKN7 GKN7 HKN7 DE F3J5 F3J5	V DGG6 DGG6 DGG6 DE 3A7D 3A7D (faulty ?)	B904 DE OJMR
V H2FL H2FL H2FL DE DRV8 DRV8	V TY9D TY9D TY9D DE EPX2 EPX2	4KQY DE OJMR
V JKDJ JKDJ JKDJ DE SLBC SLBC	VVV VVV VVV 4GN 4GN 4GN DE DE QJ7 QJ7	J0SR
V M8JF M8JF M8JF DE RIS9 RIS9	VVV CQ CQ CQ DE UKNO UKNO	5GNB DE 0MUQ
V MW3D MW3D MW3D DE 2SLC 2SLC	VVV WNF WNF WNF DE FXM FXM	8MPZ DE CG9T
V N4FM5 N4FM5 N4FM5 DE NAT491 NAT491	VK6EN K6EN K63N DE D3MR D3MR	J0MX DE CG9T
V PGG9 PGG9 PGG9 DE MI6Y MI6Y	V DF4J DF4J DF4J DE D3MR D3MR	0HPQ DE CHBR

Messages:

3330 kHz, 03-01, 1316 UTC

i.p. UGT COMM =
80540/8651/2146/237NR/8230 III =
80540/8651/2146NR/237//8230 III =
80540/8651/2146/2237//8230 AR AR

6611 kHz, 05-01, 0912 UTC, bored operator ??

GHF =
AHCDEFGHL =
ABCDEFGT EEEE KERLMNOPQI EEEE R K
XY.VZ AR
JKLMNOJ EEEE BT RTUVJXYZ
ABCDEFGHIJKL EEEE MNOPQRS EEEE = AB = = ABCDT EEEEE =
ABCDEF EEEEE JKLMNOPQRS EEEE Q = ABCDEFGHIJL =
ABCDEFGHIJKLMNOPQRSEEEEE RSTUVWXYZ AR
= ABCDEFGHIJL EEE L =
ABCDEFGT EEEEE JKLMJ =
ABCDEFGHIJKLMNOPQRSTUWXYZ AR
= ABCDEFGHIJKLMNOPQRSTTVWXYZ AR
= 6 TA = ABM EEEE ABCDE/

7777 kHz, 05-01, 0306 UTC

OK 25 VNTRC2/CDJ6 AR
NR FF NR 16.A 11..... MT.25 .NTRC2/CDJ6 AR K (Other station mostly unreadable)
NR FF GA K
FF NR ..
R QSL K
NR HR GA K
GA K
NR 77 .. 66 CK ...4 051100 RMKS .2000 TO K2.0. (too weak to copy)

6421 kHz, 06-01, 1737 UTC, unusual transmission

01180713AAL
9919228AAL
7226983AAL
278930AAL
102532AAL
508412AAL
AHR CD AR
09 AR
U W 15-IUL'A
01817AAL
160109090230847AAL
01285846AAL
1086062AAL
10011.AAL
1010606AAL
9877763AAL
2Q180IUAAL
54813AAL
160109092830029AAL
01180713AAL

8017 kHz, 06-01, 0931 UTC

4996 AR K
R R HR NR N AGN HR NR 214 K
R HR 7AGN HR F GA K
R
F AGN
FF NR 14/EX 1734 RMKS 7617 TO 8153 =
IJKL2/MN5OP AR =
IJKL2/MNHOP AR K
R U F GA K
R QSL 1738 K
HR MSG GA K
7G NR 14 CK 115 67 0106 1740 RMKS 7617 TO 8153 K

3320 kHz, 08-01, 1606 UTC

DD7T 477T 75.TT 6DAN UUTT
AR QSL ? K
R RPT 7W K (Both stations on this frequency)
R RPT 7W K
R R RPT 8W ... K
R R RPT7W K. R R RPT 7W 5NNT 5NNT K
R R RPT 24W K
R RPT 24W TT7D TT7D K (Cont'd repeat groups)
R QSL 0015 K
R U MSG GA K
R HR 7G GA K
R GA K
R HR 7G GA
NR 033 CK 99 14 0109 0000 =
ADU3 745N 6TUA D3N6 .57T A45U D77D NTAU 3456 7TDN (Cont'd)

5197 kHz, 08-01, 1238 UTC

6ND7 TNDU 6T44 AR
R R R RPT 15W TUNA AR K
R R R RPT 2W BT 3T7N AR K
R RPT 1W = U35A T EEEE AGN RPT 1W = U3 EEEEE AGN
RPT U EEEEE AGN RPT 1W = ? EEEE RPT U EEEEE
RPT 1W = U35A AR K
R R R GA K (Other station not on this frequency)
R GA K
R DE F9VT K
R GA K
RPT 2P K
RPT 31W K
R AS
R QSL 2100 K
R E E MSG NR 73 CK 299 67 0108 2101 RMKS 8137 TO 8947 K
R R =
U3T3 4TDN 56A5 5N36 TUD7 TN3N DTAT A7N4 TAN7 TTT4 AU6N
(Cont'd)

5555 kHz, 08-01, 1549 UTC

7NT345A7T4 6U3TT54 ... AR
= QIWK TGUD SOZV XBLP YFHA.WIR FJGM EEEE
VJGN VMZO LRYD HXBI SOFG QPBJ AYEY VH.T XIWWN PDYE (Cont'd)
AR (Very seldom seen letter coded messages)

8017 kHz, 09-01, 0935 UTC

376N 377D NT64 T646 D365 67NN

AR K

R K R K

R 13W = A4DT T4DT AR K (Cont'd to repeat groups)

U 7G 199 W GA K

U 7G 199W GA K. GA K K

R R

GA K

138 GA K. GA K

5588 kHz, 11-01, 0014 UTC

43AD 3NUN 54NU T747

III = ND7A 745N N5TA U3D4 (Cont'd)

III = 34T5 (Cont'd)

III = U47U

3894 kHz, 12-01, 1558 UTC

R DP71 QSA 2 NIL

VVV DP7391 DP7491 DP7791 DP7791 DE DP91 NL K

DP... QSA 3 NIL SK GB

DP7.. 1 QSA 2 NIL

R DP7491 QSA 2 NIL SK GB

DP7091 QSA 1 NIL SK GB

R DP791 QSA . NIL R VVV

DA7791 DE DP91 .. K

R DP7791 QSA 2 NIL

6871 kHz, 13-01, 0012 UTC

NR 1131/EX 0821 RMKS CQ = MY9/OK8 AR (

NR 1131/EX 0821 RMKS CQ = MY9/OK8 AR

NR 1131/EX 0821 RMKS CQ = MY9/OK8 AR

QSY 17 QSY 17 VVV

6821 kHz, 13-01, 0014 UTC

FFF NR 1171/EX 0818 = H4Y/CQ3S AR

NR 1171/EX 0818 = H4Y/CQ3S AR

NR 1171/EX 0818 = H4Y/CQ3S AR

QSY 18 QSY 18 VVV

5326 kHz, 13-01, 0018 UTC

NR 1173/EX 0824 = NB3/FEEE =

NB3/FW0H AR

QSY 16 QSY 16 VVV

5454 kHz, 16-01, 1202 UTC

RPT RPT

OK OK

HR EX GA K K

NR NR 0254/EX 2005 RMKS

NR NR 0254/EX 2005 RMKS 149 EEE RMKS = =

RT/76 AR. RT/76 AR EEEEE

OK OK OK OK

QSL 2011 QSL 2011 K

OK OK

MSG NR 02.. CK 3..50 RMKS = =

1485 TO 1489 K K

OK OK

6D3U 43N6 T3U5 76DA TU5N 7645 5ADN D5A7 6T7D 4UAT (Cont'd)

5555 kHz, 16-01, 1058 UTC

R QSL ? K

HR NR 110 K

R GB SK

VV TQSJ TQSJ DE WECJ WECJ K

R QSA 2 QSA ? K

... PIJX K

R HR NR 120 K

VV CFQY DE WECJ WECJ K

VV CFQY DE WECJ K

RR ... K

R QSA 2 QSA ? K

R R QSA 2 .. PSE . AR K

R .. AR K

R QSA 3 K

R QSL 110. K

NR 110 T K

R VA GB

R N IL SK GB

VV VINH DE WECJ K

8101 kHz, 16-01, 1058 UTC

T6D3 A7DN U47T 3636 7465 3A3N

AR AR

3 AGN 3P K

R R R T5UD AR K

R = T64N AR K

AGN

R NU IIII BT U74A AR K (Cont'd repeat groups)

R U GA K

8101 kHz, 16-01, 1145 UTC

U QSY T O NR 18 NR 18 K K

DE K

R U QSY TO NR 21 NR 21 K

U QSY TO NR 23 NR 23 K

AS

U QSY TO NR 14 NR 14 K

R AS

U QSY TO NR 06 NR 06 K

R AS

U QSY TO NR 18 18 K

R AS

U QSY TO NR 2 1 NR 1 AGN U QSY TO NR 21 21 K

R AS

U 7G CK 1 A U 7G CK 98 AGN U 7G CK 99 GA K

AS

U QSY TO NR 18 NR 18 K. U QSY TO NR 18 NR 18 K

R U 7G CK 99 GA K

AS

R GA

AS U QSY NR

U QSY AQ U QSY TO NR 07 NR 07 K

U 7G CK 30W GA K

R R GA

R 10W K

FM

AGN

R QSL 1957 K

SK GB

5341 kHz, 18-01, 2342 UTC

OM5L K8N Q1SG MC76 BW4GFNVF N..34 EUTD BM3C R4RS 4SNT
VS9XT73AC81Z Y4WQ AR AR
50 50 AR AR 50 05 AR 4 AR
FW FW FW FW FW
UW3EEEE TTTTT AR AR AR EEEE = = = = AR AR
AU34567DNTAU34567DNT AU34567DNT AU34567DNT (Cont'd)
FW FW FW
UVT4567DNT AU34567DNT (Cont'd)
I LOVE 5 EEEEE FL ? ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNPOQRSTUVWXYZ (Cont'd)

3642 kHz, 22-01, 1606 UTC

A7U5 AT5T 7D3A A37N TDU7 7T5A DNNNT
III = 4TD7 D547 T53A (Cont'd)
AR AR QSL ? HR WK NR 31

6565 kHz, 22-01, 0045 UTC

OK
HR 7G GA K (Other station also on this frequency)
GA
NR NR 4140 CK 49 94 01122 0845 RMKS 585... 868 K
OK GA
4N7D N3T6 T6UD 765U T6AR (Cont'd)
AR K
R QSL 08.. K
WK NR 203 K
R R HR WK
HR WK 203 K
OK
AGN
OK SK SK SK

6645 kHz, 22-01, 0038 UTC

GA K
R F NR 423/EX 0834 RMKS
/R3K4 AR K
QSL 10834 K (Other station also on this frequency)
R GA K
F NR 4.3/EX 083. RMKS 9238 TO 9135 K
GA K
BT .C7 AR = X3 EEEE C7 AR K
R QSL 0837 K
NR 25. K EEEE R NR 2420 K
R F.. NIL SK K
NIL GB
R GB

3642 kHz, 23-01, 1257 UTC

RA319 55556
NR TAD3 TAD5 RMKS 5.9 TO 5556/5559 =
CL/2.EEE BT CL/230/Z7EEEEEE =
CL/2 30/76/5419/5556/... EEE
82100 RMKS .319 TO 5648/569. =
COMM/2131/XZ978/82/86 EEEE =
COMM/2140/..978/88317/50648 OG NEEEEER EE
NR 108 1000 EEEEE
NR 104 ... RMKS 541. TO 5648/56.9 =
COMM/2140/XZ/EEEE =
COMM/2140/XZ97./82/5417/5648 AR QSL ?
HR WK NR 10. K

7527 kHz, 22-01, 0906 UTC

D4U6 3N7N T3A6 D4A7 5U6N 7A5N
AR K
QSL QSL 1 QSL 1710 1710 K K (Both stations on this frequency)
R MSG GA K
R
... CY K K
R GA
MSG NR 1513 CK 100 98 0122 1700 RMKS ..73565 TO 317..64 K K
R GA K
= ...6 DTA6 TA3D DTU4 546U (Cont'd)
AR K K
R QSL 1714 1714 K
R R
GA GA K K
R R MSG NR 7370 CK 100 54 0122 1700 RMKS 3173264 TO 3174565
K
R GA
R =
.... U5N6 T5B3 3T6A (Cont'd)

5466 kHz, 25-01, 1242 UTC

R IEC = 9695 AR K
R = 9695 AR K
R IEC = 9695 AR K (Other station also on this frequency, but mostly unreadable)
R OK H. MSG GA K
R MSG GA 7G NR 50/CCK CK 99 4. 0125 2040 RMKS ..70 TO ..77
TO .072 TO 60.0 TO 1070 TO A07. K
(Sends message)

6633 kHz, 25-01, 1213 UTC, i.p.

56NT 74AU T5TU TTT4 DUU4 ANUA 464D
AR K
R RPT 4W 64TA AR K
RPT 15W = 4DUN AR K
R QSY QSY 8800 K
R R VVV EWED EWED = EEEE
VV ... FDD R RHT 5 EEE
C8FH C8FH DE EWED R R .GA K
R R 7G NR 001/CCK CK 21 14 0125 1940 RMKS = 8281 TO 8289 AR K
R R GA K =
75U6 644T 4A5D D474 74U5 7UT5 56NT 74AU T5TU TTT6
DU4 ANUA 463D 64TA 4DUN 774N 74DA 747U 3DAT U5U4
NT37 AR KK
R R PT 1W K
R R RPT 1W = = 75U6 AR K
R R QSL 2041 K
R R SK
SK GB
R QSL 2040 K

5340 kHz, 28-01, 1539 UTC

VV OHPQ DE CHBR K
R QSA 2 HR WK NR 330 U WK NR GA K (Other station not on this frequency)
R U NW EEEEE
R U NOTE KP HR K
U NW QRW 7951 COMM HR K
R QSA 2 HR WK NR 330 K
R U NAEEEEE
R U NOTE KP HR K

7788 kHz, 25-01, 1213 UTC, i.p.

HK8F DE EWED K
RR 7G GA
7G NR 001 CK CK CK 21 14 0125 2000 RMKS = 8289 TO 8281 AR K
(Probably NR 001/CCK CK 21)
R = =
N7U4 D554 DAUD U576 T44T 5645 NTDT N3DU T4TU TTTA
774U 7DNA D37T 6N4A 535A DTA5 3U74 DA46 T3DU 467N
6D45 AR K
R QSA 1
QSY QSY 8800 QSY 8800 QSY 8800
R QSA 4 U 7G GA K
R GA
R QSL 2019 K
R SK GB

3894 kHz, 27-01, 1602 UTC

=
DP7791 QSA 2 NIL
SK GB
DP7391 QSA 1 NIL
DG7391 QSA 2 NIL
DP7491 QSA 2 NIL
SK GB
DP7491 QSA 2 NIL
SK GB
DP7791 QSA 2 NIL
DP7091 QSA 2 NIL
DP7691 QSA 1 NIL SK
GB
DP7691 QSA 2 NIL
SK GB
DP7.91 QSA 2 NIL
DP7791 QSA 2 NIL
SK GB

5555 kHz, 28-01, 1445 UTC, i.p.

= 7DAU 4UAT T47D AAU5 7454
AR AR K K
R R 5555 5IE 5555H
5811 QSA 4 K K
ER R IEC = 5555 AR K K
R R IEC = 55U AR K K
R H MSG GA K
R R OK K K
R 7G NR 55 CK 55 RAKS 2742 TO 2663 K K

6850 kHz, 28-01, 0902 UTC, i.p.

R QSA 2 QSA ? K
R QSA 2 IEC = NAG9 1 K EEEE \R 8LW 795. C (Other station also on this frequency)
R IEC = O EEE R IEC = 7951 AR K
IEC 7951 K
R IEC = 7951 AR K
R 2NR AR K
ULLU
VVV 5GNB DE 0MUQ K
VV 5GNB DE 0MUQ K
R BBPX DE J5MR R QSA 1 QSA ? K
R QSA 2 IEC =...5 AR K
IEC = = 51.5 AR K
R IEC = 5185 AR K

5460 kHz, 28-01, 0915 UTC, i.p.

RHR WK NR 41 K (
R HR WK NR 29 K
R U 1730 COMM GK.. K
R RHR KP UK
R
VV GK7U DE OJ.. K
VV GKBU DE OJMR K
R -... DE OGNX R QSA 2 QSA ? K
R QSA OK
R QSA 1 K
R QSL ? K
R QSL 1.07 K
R HR WK NR 24 K
R HR WK NR 41 K
R U 1730 COMM O.. X K
R HR KP U
R VV 4NMX DE OJMR K
R OAGOV DE 4PQT R QSA 2 QSA ? K
R QSA 1 K
R
R QSL 1708 K
R HR WK NR 41 K
R HR WK NR 41 K
R U 1730 - COMM ..V
R HR KP U K
R
VV B904 DE OJMR K
H0V DE 4.0T QSA 2 QSA ? K
R QSA 1 K
QSL 1710 K
AGN
VV B904 DE OJMR K
... QSA 2 QSA ? K
R QSA 0 K
QSL 1710 K
R QSL 1709
HR WK NR 41 K
HR WK NR 17 K
R U 1740 COMM 4NMX K
HR KP U K
NO K
VV 4KQY DE OJMR K
R 0504 DE O0SR GEEEE R
0504 DE J0SR QSA 2 QSA ? K
R QSA 2 K
R
HR MSG GA
HR MSG GA
MSG NR 045/EX CK 199 41 0128 1700 RMKS 9304 TO 9096 =
4D76 44N7 5A3N D74T D..6 56U7 UN6T 4A.7 4U5D (Cont'd)

10540 kHz, 28-01, 0146 UTC, i.p.

TSAD 6N3D N7DA 7543 UA54
RPT 1 ...
QSL 0945 0945 0945 C (Other station also on this frequency)
R OK
SK SK
R SK SK SK

6841 kHz, 29-01, 0902 UTC

VV 8MPZ DE CG9T K VV 8MPZ DE CG9T K
 R VVVV 8MPZ DE CG9T K
 R QSA 2 QSA ? K (Other station also on this frequency)
 R QSA 2 WR UK NR 080 UU K
 NR GA K
 R HR WK NR 09 K
 U QRU 6007 NU KP HR K
 U QRW 6007 KP HR K
 R
 U NOTE KP HR K U NOTE KP HR K
 R
 VV J0MX DE CG9T K VV J0MX DE CG9T K

6916 kHz, 29-01, 0854 UTC, i.p.

U574 6DA4 7N45 6T4A
 III = = = QSL ?
 QSL 1655 ..?
 QSY QSY 13
 R
 VA = = = =
 11 QA. 21.C. W CLA K
 R DE QSL ? QSL ?
 QSL
 = = = ABCD NNA 1234 AR
 R MSG CY
 NR 01 CK 100 55 0129 007. 0 =
 R A3D7 64AN T5.. A75N UT37 34N7 AT5U .DNT 57UT A47D (Cont'd)

5801//10180 kHz, 29-01, 0835 UTC, i.p.

/XZ978/82/5REEEEE =
 COMM/1700/XZ978/82/5317/5198 AR
 AGN
 NR 136 164 RMKS 5419 TO 5198 /5182
 COMM/1700/XZ978/82/5317/5198 AR
 AR QSL ? HR WK NR 420

6958 kHz, 29-01, 0847 UTC

VV 0HPQ DE CHBR K
 R QSW HR WK NR 42 U K
 NR GA K
 R U NOTE KP HR K

**M90 Czech army**

4852 kHz, 14-01, 0709 UTC XVSQ wkg DNSF, CQXJ, TSXS, ICFV, PJP6, EHBj

**M95**

Freq	Date	UTC	Details
4283	5-1	0929	XSV70 i.p. 773 3AD 353 4UT 446 N3D ... //7553 kHz
4283	20-1	1332	Message i.p. on 4283//7553//9149 kHz
4284	6-1	0914	i.p. CY NR 17 CK 115 35 0106 1554 TU3 TA4 TT6 3U6 3A5 TT4 773 354 N3D ... //7554 kHz
7553	5-1	0929	XSV70 i.p. 773 3AD 353 4UT 446 N3D ... //4283 kHz
7553	9-1	0914	V BNEC (x3) DE XSV70 (x2) HR MSG ... CY NR .. CK 20 .. 35 0109 1555 ...
7553	20-1	1332	Message i.p. on 4283//7553//9149 kHz
7554	6-1	0914	i.p. CY NR 17 CK 115 35 0106 1554 TU3 TA4 TT6 3U6 3A5 TT4 773 354 N3D ... //4284 kHz
7554	24-1	0914	V BNEC (x3) DE XSV70 (x2) HR MSG GA PSE CY NR 71 CK 149 35 0124 1544 TA4 UT3 TU4 4U6 4A4 TT4 773 ...
7777	27-1	1123	05 05 05 .4TT 7T4D4U55.N5N7AT A7DD 76N7 64ND D74D 4N5N 4N4N ...
8073	4-1	0006	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0010 CK 106 35 0104 0704 = TT4 3U4 3A4 TAU 773 TAN 773 ... AR AR AR
8073	7-1	0003	V BNGC (x3) DE XSV85 (x2) HR MSG GA NR NR 0016 CK 107 35 0107 0711 = TT7 3U4 3A4 TAU 773 TU5 773 357 4T3 NN3 ...
8073	11-1	0004	V BNGC (x3) DE XSV85 (x2) HR MSG GA MSG NR NR 0024 CK 115 35 0111 0710 = TAA 3U4 4A4 TAU 773 TA7 ...
8073	12-1	0003	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR 0026 CK 102 35 0112 0710 = TAU 3U4 3A4 TAU 773 TA7 773 ...
8073	15-1	1136	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0033 CK 236 35 0115 1540 = TA5 3U6 3AN 3U7 TAU ...
8073	16-1	0004	V BNGC (x3) DE XSV85 (x2) HR MSG GA NR 0034 CK 94 35 0116 0708 = TU6 3U4 3U4 3A4...
8073	16-1	1137	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 003 5 CK 219 35 0116 1512 = TA6 3U6 3AN 3U7 ...

Freq	Date	UTC	Details
8073	18-1	1140	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0039 CK 238 35 0118 1542 = T.. 3U6 3AN
8073	19-1	0007	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0040 CK 89 35 0119 0703 = TAN 3U4 3A4 TAU 773 TA7 773 ...
8073	19-1	0011	i.p. 773 TU6 773 357 373 4T3 NN3 MSG AGN AGN = MSG NR 0042 CK 115 35 0120 0728 = TUT 3U4 3A4 TAU 773 TU4 773 TU5 ...
8073	24-1	0004	V BNGC (x3) DE XSV85 (x2) HR 7GS GA PSE CY NR 0056 CK 81 35 0124 0659 = TU4 3U4 3A4 TAU 773 TA7 773 ...
8073	24-1	1140	V BNGC (x3) DE XSV85 (x2) HR ... PSE CY NR 0058 CK 24. 35 0124 1742 = TU4 .A6. 3A. 3U7 ...
8073	25-1	0007	V BNGC (x3) DE XSV85 (x2) NR 0060 CK 83 35 0125 ... =
8073	25-1	1142	XSV85 i.p. NR 0063 CK 308 35 0125 0551 = TU5 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 353 ...
8073	29-1	0009	i.p. 773 353 4T3 NN3 445 3DU ... NR 007. CK ... 35 0129 0724 = (Cont'd) AR AR W AR AR EC AR
8888	24-1	0858	XSV85 i.p. 1703 = TU4 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 ... 773 TU7 773 TUN 773 357 365 4T3 NN3 44N AR AR
9149	20-1	1332	Message i.p. on 4283//7553//9149 kHz (should be 9153 kHz)

8073 kHz, 04-01, 0006 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0010 CK 106 35 0104 0704 =
TT4 3U4 3A4 TAU 773 TAN 773 TUT 773 357 (Cont'd)
AR AR MSG AGN
NR 0010 CK 106 35 0104 0704 =
TT4 3U4 3A4 TAU 773 TAN 773 TUT 773 357 (Cont'd)
AR AR AR (Switched to V26 at 0022 UTC)

4283//7553 kHz, 05-01, 0929 UTC

773 3AD 353 4UT 446 N3D
III 4D3 TTN 773 3AD 353 4UT 436 (Cont'd)
MSG AGN
NR 15 CK 196 35 0105 1550
TU3 UT3 TT5 3U6 TT4 773 3AD 353 (Cont'd)
HR MSG NR 13 CK 113 35 0105 0700
TU3 UT3 TT5 3U4 3A4 TT4 773 353 (Cont'd)
MSG AGN
NR 13 CK 113 35 0105 0700
TU3 UT3 TT5 3U4 3A4 TT4 773 (Cont'd)
ZNN SK

8073 kHz, 08-01, 1139 UTC

V BNGC (x3) DE XSV85 (x2)
CY HR MSG GA PSE CY
NR 0019 CK 136 35 0108 1550 = =
TTD 3U6 3AN 3U7 TAU 773 TA7 773 TU4 773 TU5 773 353 (Cont'd)
AR AR MSG AGN
NR 0019 CK 136 35 0108 1550 = = (Cont'd repeat message)
AR (Switched to V26 at 1157 UTC)

8073 kHz, 11-01, 0004 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA
HR MSG GA
MSG NR NR 0024 CK 115 35 0111 0710 = =
TAA 3U4 4A4 TAU 773 TA7 773 454 35D 467 4T3 NN3 (Cont'd)

4284//7554 kHz, 06-01, 0914 UTC, i.p.

CY NR 17 CK 115 35 0106 1554
TU3 TA4 TT6 3U6 3A5 TT4 773 354 N3D (Cont'd)
AHR MSG AGN
NR 17 CK 115 35 0106 1554
TA3 UT3 TT6 3U6 3A4 TT5 773 354 N3D (Cont'd)
AHR MSG GA
NR 18 CK 196 35 0106 1554
TA3 UT3 TT6 3U6 TT4 773 3AD 353 U46 35A (Cont'd)
A HR MSG GA
NR 16 CK 151 35 0106 0700
TA3 UT3 TT6 3.4 3A4 TT4 773 353 U46 35A (Cont'd)
AHR MSG AGN
NR 16 CK 151 35 0106 0700
TA3 UT3 TT6 3U3 3A4 TT4 773 353 U46 35A (Cont'd)
ZNN VA

8110 kHz, 07-01, 0018 UTC

= 418/C464/5736/79/77/482/COMM/0034 AR
HR NR 304 0
HR NR 2030 NIL SK GB NIL SK GB

7553 kHz, 09-01, 0908 UTC

V BNEC (x3) DE XSV70 (x2)
HR MSG ... CY
NR .. CK 20 .. 35 0109 1555
UT. ..3U6 3. (Cont'd)
NR .. CK 10 35 0109 1555
TA3 (Cont'd - 0919z)
NR 27 CK .72 35 0109 155.
TA3 UT3

8073 kHz, 12-01, 0003 UTC

V BNGC (x3) DE XSV85 (x2)
HR 7G GA PSE CY
NR 0026 CK 102 35 0112 0710 = =
TAU 3U4 3A4 TAU 773 TA7 773 357 35N 4T3 NN3 (Cont'd)

8073 kHz, 13-01, 0004 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0028 CK 079 35 0113 0710 =
TA3 3U4

8073 kHz, 15-01, 1129 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0033 CK 236 35 0115 1540 =
TA5 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 354 (Cont'd)

8073 kHz, 16-01, 0004 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA
HR MSG GA
NR NR 0034 CK 94 35 0116 0708 = =
TU6 3U4 3U4 3A4 TAU 773 TA7 773 TAD 773 354 (Cont'd)

8073 kHz, 16-01, 1137 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 003 5 CK 219 35 0116 1512 = =
TA6 3U6 3AN 3U7 TAU 773 TA7 773 357 (Cont'd)

8073 kHz, 18-01, 1140 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
HR MSG GA PSE CY
NR 0039 CK 238 35 0118 1542 = =
T.. 3U6 3AN

8073 kHz, 19-01, 00017 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0040 CK 89 35 0119 0703 =
TAN 3U4 3A4 TAU 773 TA7 773 TAD 773 (Cont'd)

8073 kHz, 22-01, 0007 UTC

V BNGC (x3) DE XSV85 (x2)
HR 7GS GA PSE CY (x2)
NR NR 0048 CK 110 35 0122 0715 =
TUU 3U4 3A4 TAU 773 TA7 773 357 373 4T3 NN3 447 (Cont'd)
773 453 403 NN3 435 3DT TTU 4DT4 D6 AR
AS AS 7G GA
NR 0049 CK 33 35 0122 0721 =
TTA N5U TUU N53 TT6 N54 7TT TA4 746 705
7TA 7T7 TAU 773 TA7 773 TAD 773TAN 773
TUU 773 TU3 773 TU4 773 TU5 773 7AN 7AD
N47 3A4 7U5 AR (0015z)
7G AGN
NR 0048 CK 110 35 0122 0715 =
TUU 3U4 3A4 TAU 773 TA7 773 357 373 4T3 NN3 447 (Cont'd repeat
messages)

8073 kHz, 19-01, 0011 UTC, i.p.

773 TU6 773 357 373 4T3 NN3
MSG AGN AGN =
MSG NR 0042 CK 115 35 0120 0728 = =
TUT 3U4 3A4 TAU 773 TU4 773 TU5 773 353 37U 4T3 NN3 (Cont'd)

7554 kHz, 24-01, 0914 UTC

V BNEC (x3) DE XSV70 (x2)
HR MSG GA PSE CY
NR 71 CK 149 35 0124 1544
TA4 UT3 TU4 4U6 4A4 TT4 773 354 U46 45A 4A5 (Cont'd)
7G AGN
NR 71 CK 149 35 0124 1544
TA4 UT3 TU4 4U6 4A4 TT4 773 354 U46 45A 4A5 447 (Cont'd)
7G AGN
NR 72 CK 194 35 0124 1544
TA3 UT3 TU4 4U6 TT4 773 (Cont'd)
A HR MSG GA
NR 70 CK 149 35 0124 0705
TA4 UT3 TU4 3U4 3A4 TT4 773 354 477 N3D (Cont'd)
7G AGN
NR 70 CK 149 35 0124 0705
TA3 UT3 TU4 3U4 3A4 TT4 773 (Cont'd)
ZNN SK

8073 kHz, 24-01, 0004 UTC

V BNGC (x3) DE XSV85 (x2)
HR 7GS GA PSE CY
NR 0056 CK 81 35 0124 0659 =
TU4 3U4 3A4 TAU 773 TA7 773 344 365 4TU NN3 (Cont'd)
AR AR
7G AGN
NR 0056 CK 81 35 0124 0659 =
TU4 3U4 3A4 TAU 773 TA7 773 (Cont'd repeat message)
AR
AS R 7GA
NR 0057 CK 21 35 0124 0704 =
TTA N5U TU4 N53 TT6 N54 7TT TT7 746 TT5
77T DN3 7T7 NUT UUD 773 7AN 7AD N47 3A4
7U5 AR AR
7G AGN
NR 0057 CK 21 35 0124 0704 =
TTA N5U TU4 N53 TT6 N54 7TT TT7 746 7T5
77T 3 7T7 NUT UUD 773 7AN 7AD N47 3A4
7U5 AR AR (Switched to V26 at 0019 UTC)

8073 kHz, 24-01, 1140 UTC

V BNGC (x3) DE XSV85 (x2)
HR ... PSE CY
NR 0058 CK 24. 35 0124 1742 =
TU4 .A6. 3A. 3U7 (Cont'd)
AR
A HR MSG GA
NR 0059 CK 21 35 0124 1552 =
TTA N5U TU4 N53 TAD N54 7TT TTD 746 7T5
77T DN3 7T7 NUT AUD 773 7AN 7AD N47 3AN
7U5 AR AR (Switched to V26 at 1204 UTC)

8888 kHz, 24-01, 0858 UTC, XSV85 i.p.

1703 = =

TU4 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773
TAN 773 TU3 7773 357 365 4UT NN3 456 3D6
4DT 4D3 TUT 773 357 4UT NN3 453 3D5 4DT
4D6 TUA 773 TUU 773 TU4 773 TU5 773 TU6
773 TU7 773 TUN 773 357 365 4T3 NN3 44N
AR AR

8073 kHz, 25-01, 0007 UTC

V BNGC (x3) DE XSV85 (x2)

NR 0060 CK 83 35 0125 ... =

AR AR

MSG

NR 0060 CK 8. 35 0125 0 = (too weak to copy)

8073 kHz, 25-01, 1142 UTC, XSV85 i.p.

7T7 TAU 773 TA7

AR AHR MSG GA

NR 0063 CK 308 35 0125 0551 =

TU5 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 353 (Cont'd)

8073 kHz, 29-01, 0009 UTC, i.p.

773 353 4T3 NN3 445 3DU

AR 7G AGN

NR 007. CK ... 35 0129 0724 =

AR AR W AR AR EC AR (Switched to V26 at 0017 UTC)

7777 kHz, 27-01, 1123 UTC, i.p.

05 05 05

.4TT 7T4D4U55.N5N7AT (Horrible CW - Groups runned together)

A7DD 76N7 64ND D74D 4N5N 4N4N 7U5. A4TATUAU7.46UAN

(Cont'd)

05 05

/NR /NR ..0

05 05 05

VVV 4364 46D6 7NED755UTNT7TT54R 34343T4NT3U3U

56A7TN7TWTAU4T7TU

VV VV T7T.7D

VVV 7GA

8073 kHz, 27-01, 1149 UTC

V BNGC (x3) DE XSV85 (x2)

= TU7 3U6 3AN 3U7 TAU 773 354 367 4T3 NN3 (Cont'd)

AR

HR 7G GA

NR 0071 CK 52 35 0127 1614 =

TTA N5U TU7 N53 TAD N54 7TT TA4 746 7T5 77T (Cont'd)

AR

7G AGN

NR 0070 CK 256 35 0127 1611 =

TU7 3U6 3AN 3U7 TAU 773 354 367 4T3 NN3 (Cont'd)



MC03 - Chinese Air Defense

5135.5 kHz, 10-01, 1256 UTC

676 UT3NU4 A5N 53

676 UA5446 6445 3A7 AAU 53

676 UT3NU4 D63NUA4 A5N 53

676 UA543T543A54. ATN 53

676 UA63N5 5N4AU6U ATT 53 (Cont'd)



UM02 – YRM net

Note that A is YRM. B, C, D, etc are the other stations

10470 kHz, 06-01, 0129 UTC

V VVVV CQ CQ CQ DE YRM YRM YRM
 VVV CQ CQ CQ DE YRM YRM YRM QSV K
 VVV CQ CQ CQ DE YRM YRM YRM
 VVV CQ CQ CQ DE YRM YRM YRM QSV K
 KLF //A
 R //B
 ZNN VA //A
 VVV CQ CQ CQ CQ QSV K
 VVV CQ CQ CQ DE YRM YRM QSV K
 VVV CQ CQ CQ DE YRM YRM QSV K
 VVV CQ CQ DE YRM YRM QSV K
 VVV CQ CQ CQ DE YRM YRM QSV K
 VVV CQ CQ DE YRM YRM ZAN ZAN VA I

10470 kHz, 07-01, 0132 UTC

VV VVV V KLF
 CQ CQ CQ DE YRM YRM QSV
 KLF
 DE
 KLF
 R R ZNN
 ER ZNN
 VA
 CQ CQ QSV
 VVVV CQ CQ CQ DE YRM QSV
 CQ CQ CQ DE YRM QSV K
 VVV CQ CQ CQ QSV
 V CQ CQ QSV
 VVV CQ CQ QSV
 VVV CQ CQ QSV
 VVV CQ CQ QSV
 CQ QSV

10470 kHz, 09-01, 0127 UTC

VVVV VVV VVV CQ DE YRM
 VVV CQ DE YRM QSV K
 QSV K. QSV K. QSV K

10470 kHz, 11-01, 0129 UTC

VVV KLF KLF KLF QSV
 VVV KLF KLF QSV
 VVV CQ DE YRM QSV K
 VVV KLF KFL
 KFL
 R
 ZNN ZNN VA
 CQ DE YRM QSV K

VVV ROZ
 DE
 ROZ
 VOR VOR ZNN
 ROZ ROZ
 ROZ
 R
 ROZ
 R
 ZNN ZNN VA
 VVV CQ DE YRM QSV K
 VVV CQ DE YRM QSV K
 VVV CQ DE YRM Z.. VA

10470 kHz, 16-01, 0131 UTC

VVV CQ DE YRM QSV K
 VVV CQ DE YRM QSV K
 VVV CQ DE YRM QSV K
 VVV CQ DE YRM ZAN ZAN VA I

10470 kHz, 22-01, 0132 UTC, i.p.

CQ DE YRM QSV K
 VVV ROZ ROZ
 CQ DE YRM QSV K
 VVV ROZ ROZ ROZ
 DE DE
 VVV ROZ
 QSV K
 CQ DE YRM VVV QSV K
 VVV ROZ ROZ
 XRJ ZNN VA
 QSV K
 ROZ ROZ
 DE
 ROZ
 QSV K
 VVV ROZ ROZ
 VVV ROZ ROZ ROZ

10470 kHz, 23-01, 0126 UTC

VVV
 40I 40I
 V QV QSV K
 QSV QSV K
 QSV K
 CCCC VQQCQ CQ CQ QSV K
 VVV ZAN ZAN VA VA

10470 kHz, 28-01, 0132 UTC

CQ DE YRM
 QSV K
 DE
 ROZ
 KLF ZNN
 VA
 QSV K QSV K
 QSV K QSV L K
 V KLF
 DE
 KLF ZNN
 B
 VA E
 QSV K
 4OI
 DE
 DE
 QSV K
 4OI
 DE
 4OI
 ROZ
 MEI
 QSV K
 QSV K
 QSV K
 CQ CKQ CQK DE YRM YRM VVV QSV K

10470 kHz, 29-01, 0134 UTC, i.p.

QSV K

ROZ ROZ
 QSV K
 ROZ ROZ
 CQ DE YRM VVV QSV K
 VVV ROZ
 KLF
 DE
 ROZ ROZ
 V OZ
 ROZ
 R
 ZNN
 ZNN
 VA
 DE DE DE
 QSV K
 DE
 KLF KLF ZNN
 VA
 QSV K
 QSV K

10470 kHz, 30-01, 0132 UTC

QSV K
 VVV CQ (x3) DE YRM (x2) ZAN ZAN VA I
 ROZ (Extremely weak in the background)
 VVV BV
 VVV CQ QSV K
 VVV CQ DE YRM ZAN ZAN VA I
 ROZ

**UM10 - 10-minutes net**

3226 kHz, 07-01, 2120 UTC	U34D
3226 kHz, 09-01, 1430 UTC	U34D
3326 kHz, 16-01, 1225 UTC	U34D //4112 kHz
3326 kHz, 18-01, 1752 UTC	U34D
3705 kHz, 19-01, 1614 UTC	OBCD (new callsign and new freq)
4112 kHz, 19-01, 2121 UTC	U34D
3718 kHz, 22-01, 1543 UTC	7CJK (new frequency, new time slots)
3718 kHz, 22-01, 1610 UTC	7CJK (new frequency, new time slots)
3326 kHz, 22-01, 1556 UTC	U34D
3326 kHz, 22-01, 1623 UTC	U34D
3326 kHz, 24-01, 2157 UTC	U34D
3326 kHz, 25-01, 1758 UTC	U34D
3718 kHz, 26-01, 1713 UTC	7CJK

DIGITAL MODES



HM01

Dirección General de Inteligencia

January's oddities:

16180 kHz, 14-01, 2059 UTC 36551 86614 17851 73040 83212 86704.

17480 kHz, 14-01, 2158 UTC 36551 86614 17851 73040 83212 86704

Note: With exception of callup group 4, these groups were first sent on 27 Dec.

11435 kHz, 26-01, 1557 UTC. Very weak YL/SS singing "My Country Tis Of Thee etc" followed by a messed up HM01 at 1605 UTC.
36551 86615 17851 54701 83213

16180 kHz, 26-01, 2105 UTC. 36551 86615 17851 54701 83213

17480 kHz, 26-01, 2205 UTC. 36551 86615 17851 54701 83213

Note: With exception of callup group 4, these groups were first sent on 27 Dec.

11435 kHz, 27-01, 1553 UTC. 36551 86615 17851 54701 83213 86705. Same old groups but at 1557 UTC new groups followed:
36552 86616 17852 54702 83214 86706

M42 & X06



Modes:

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

Russian Government & Intelligence

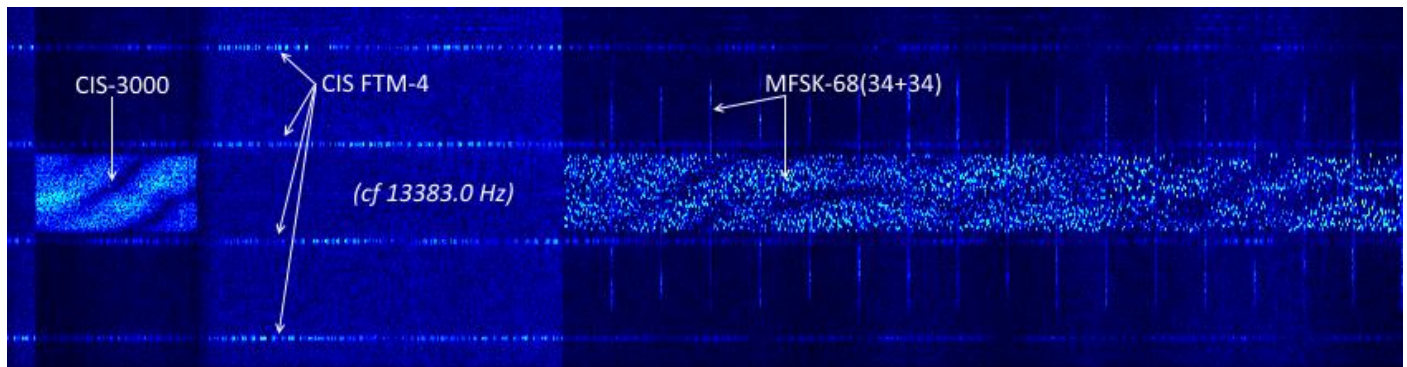


M42 – various modes

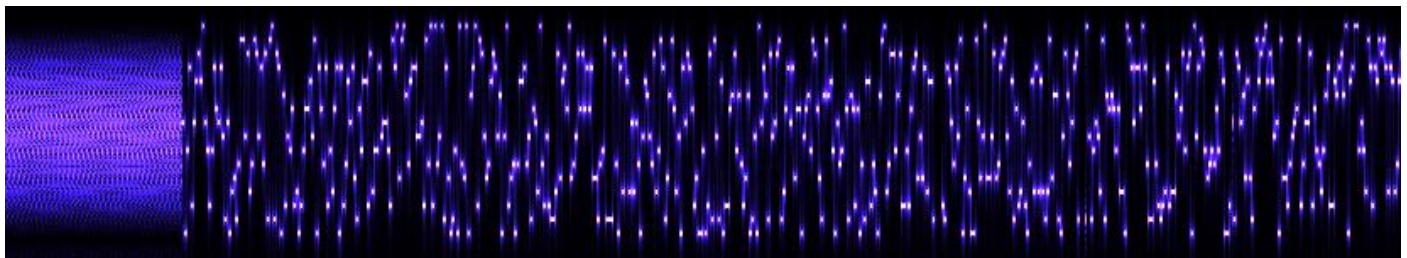
Freq	Date	UTC	Details	Mode
6821	28-1	0900	Russian diplo/intel. Ends 0904z. Experimental mode, Last heard in October 2014.	PSK intro / MFSK-16
7591	15-1	1327	W7AD Wkg TI4O	CW
7638	28-1	0824	Russian diplo/intel. Ends 0827z. Experimental mode, Last heard in October 2014.	PSK intro / MFSK-16
7943	28-1	0831	Russian diplo/intel. Ends 0838z. Experimental mode, Last heard in October 2014.	PSK intro / MFSK-16
8062	28-1	0842	Russian diplo/intel. Ends 0848z. Experimental mode, Last heard in October 2014.	PSK intro / MFSK-16
8191	28-1	0850	Russian diplo/intel. Ends 0858z. Experimental mode, Last heard in October 2014.	PSK intro / MFSK-16
10180	29-1	1250	NT9P de K4MT, QSA's tehn QLO10	T600

Freq	Date	UTC	Details	Mode
13383	25-1	0922	Russian intel	CIS FTM-4, MFSK-4 150Bd 4000Hz
13383	25-1	0922	Russian diplo/intel. CIS-3000 PSK-8 flwd by MFSK-68(34+34) + BPSK 10Khz inside a concurrent CIS FTM-4 150Bd 4000Hz	CIS-3000 PSK-8 3000Bd serial
14380	24-1	1030	Message in FSK 100/500 and opschat in CW: RYX QTC 2	MCW
15623	3-1	1040	RYQ (op chat in CW, messages in FSK) QRU NIL SK	FSK 75/500
15623	22-1	0845	Russian intel	CIS FTM-4, MFSK-4 150Bd 4000Hz
15623	26-1	0850	Russian intel	CIS FTM-4, MFSK-4 150Bd 4000Hz
18060	26-1	0924	Russian diplo	CROWD-36

13383 kHz, 25-01, 0922 UTC, CIS-3000 PSK-8 3000Bd serial followed by MFSK-68(34+34) + BPSK 10Khz bw just "interlocked" inside a concurrent CIS FTM-4 150Bd 4000Hz (tones at: -6, -2, +2, +6 KHz)



Courtesy Antonio (AAI)



2-minute serial tone PSK intro followed by MFSK-16. Last reported in October 2014

M42b – FSK 50/500

Freq	Date	UTC	Details	Mode
1777.5	21-1	1849	UWG2 de UUA4 QSA ? K. QSA 4 ZOR K (QX on 4020 kHz)	CW
1802	28-1	1536	Comms checks in CW and messages in FSK 50/500	FSK 50/500
2002	3-1	1541	CDAP wkg AIFH (op chat in CW, messages in FSK) QRU NIL SK	FSK 50/500
2002	8-1	1542	CDAP wkg AIFH (Msg in FSK, opchat in CW) QRU NIL SK)	FSK 50/500
3838	6-1	0727	NLAT wkg VGKE	CW
4012	2-1	0716	NLW de VGC QSA NO QSY 80353 K	CW
4012	2-1	0722	NLW de VGC QSA NO QSY 80353 K	CW
4012	4-1	0716	VGTR wkg NLAT	CW
4012	11-1	0720	VGTR wkg NLAT	CW
4020	21-1	1859	UUA4 de UWG2 QSA ? K. QSA 4 ZOR K. Msg in FSK 50/500 and opschat in CW. (QX on 1777.5 kHz)	CW
4040	11-1	0846	Wkg outstation. (Msg in FSK, opchat in CW) QRU NIL SK	FSK 50/500
4461	7-1	0558	PZAK wkg PLXW (opschat in CW, msg in FSK)	FSK 50/500
4571	21-1	0707	AUTK de WKEX QLO 10 K	CW

Freq	Date	UTC	Details	Mode
4581	21-1	0700	AUTK de WKEX QLO 10 K	CW
4781	4-1	1350	TSE7 de UKNR QSY 23349 K	CW
4856	2-1	0625	QST wkg VBY (op chat in CW, messages in FSK) VBY is on 5068 kHz	FSK 50/500
5078	4-1	1344	TSE7 de UKNR QSY 76866 K	CW
5161	4-1	1320	GDVA wkg JXEN (op chat in CW, message in FSK)	FSK 50/500
6781	26-1	1417	M9XE wkg AJ7I. Comms checks in CW and messages in FSK 50/500	FSK 50/500
6817	11-1	0753	SK8I wkg G3WM (Msg in FSK, opchat in CW) QRU NIL SK	FSK 50/500
6837	11-1	0751	G3WM de SK8I QLO 20 K	CW
6905	24-1	1250	Wkg outstation. Message in FSK, Opschat in CW: QRU NIL SK	FSK 50/500
6905	30-1	1245	5fg's with =50= seperator and opchat in CW cfm qru? k. ok esl3 k. bk bk qrv k. k. r 0181253 k. nil sk	Baudot 50/500
8060	16-1	1452	Msg in FSK, opchat in Morse: QRU NIL SK	FSK 50/500
10180	3-1	1228	K4MT wkg NT9P (op chat in CW, messages in FSK) QRU NIL SK	FSK 50/500
10955	25-1	1239	Russian diplo/intel. 5FGs with =100= separator	Baudot 50/500
11160	29-1	0825	Message in FSK 50/500, opchat in CW: QTC 1 RPT K. R (Switched to FSK) CFM NSE EE NAL QRU ? K. CFM NIL QRU U SK	FSK 50/500

6905 kHz, 30-01, 1245 UTC, BAUDOT ITA-2 50/500 and opchat in CW:

67545 98767 08976 86754 54367 08976 08978 86756 97876 08943
96754 56453 56454 75645 86756 53423 64532 08976 86756 79463
07986 64534 65868 08965 86754 67543 75643 53421 12376 08976
75643 87967 64567 75654 07987 53423 13428 08976 07865 86765
84756 85764 01936 07895 75643 07986 97854 74635 80965 86745 =50=
86756 57453 54687 08976 64534 56687 08965 64534 13425 34251
08956 75643 45346 87987 08976 86740 97854 43123 56432 97865
86754 53421 97865 76543 08976 12134 75643 09854 86743 45326
08976 86754 76589 08965 45632 08976 04532 67541 86754 08970
86754 87654 34235 65468 08976 75645 97867 86756 85760 86750 =100=
1250

CFM QRU? K
OK ESL3 K
BK BK QRV K
K
R 0181253 K
NIL SK.

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

11077/9160/7507 kHz, 01-01, 1015/1025/1035 UTC	)5761 00000+++++++162
18524/16140/14672 kHz, 02-01, 1300/1310/1320 UTC	)5761 00000+++++++162
7682/5385/4570 kHz, 02-01, 1810/1820/1830 UTC	)5761 00000+++++++162
11077/9160/7507 kHz, 04-01, 1015/1025/1035 UTC	=7561 432878555955486112 ...)7041505344700000+++++186
11077/9160/7507 kHz, 05-01, 1015/1025/1035 UTC	=8431 54377246658046696 ...)57655 00000+++++++151 (2 msgs)
7629/6783/4034 kHz, 05-01, 1940/1950/2000 UTC	Serial #46, Groups 422 - 68018 21580 12718 90984 71978 ... 01066
11077/9160/7507 kHz, 06-01, 1015/1025/1035 UTC	=8581 968050219847179123 ...)7651445642900000+++++141
11077/9160/7507 kHz, 07-01, 1015/1025/1035 UTC	=8731 211902042946311115 ...)57657 000+++++++129 (2 msgs)
11077/9160/7507 kHz, 08-01, 1015/1025/1035 UTC	)5761 00000+++++++162
18524/16140/14672 kHz, 09-01, 1300/1310/1320 UTC	)5761 00000+++++++162
7682/5385/4570 kHz, 09-01, 1810/1820/1830 UTC	)5761 00000+++++++162
11077/9160/7507 kHz, 11-01, 1015/1025/1035 UTC	=8711 56453531447162167 ...)57614100000+++++++177
11077/9160/7507 kHz, 12-01, 1015/1025/1035 UTC	=8881 59186056200817264 ...)71364 6111900000+++++249 (2 msgs)
11077/9160/7507 kHz, 13-01, 1015/1025/1035 UTC	=8131 11536991598299269 ...)581142+++++++125
11077/9160/7507 kHz, 14-01, 1015/1025/1035 UTC	=8131 604733115452871117 ...)76462 6411300000+++++134 (2 msgs)

11077/9160/7507 kHz, 15-01, 1015/1025/1035 UTC	)5761 00000+++++++162
14672 kHz, 16-01, 1320 UTC	)5761 00000+++++++162
7682/5385/4570 kHz, 16-01, 1810/1820/1830 UTC	)5761 00000+++++++162
11077/9160/7507 kHz, 18-01, 1015/1025/1035 UTC	=8011 975655322249958148 ...)7061406541700000+++++211
11077/9160/7507 kHz, 19-01, 1015/1025/1035 UTC	=8441 65526102094991798 ...)71068 6709100000+++++189 (2 msgs)
11077/9160/7507 kHz, 20-01, 1015/1025/1035 UTC	=8421 07557417297148194 ...)57613500000+++++++160
11077/9160/7507 kHz, 21-01, 1015/1025/1035 UTC	=8681 26335823565272398 ...)58168 ++++++++84 (2 msgs)
11077/9160/7507 kHz, 22-01, 1015/1025/1035 UTC	)5761 00000+++++++162
18524/16140/14672 kHz, 23-01, 1300/1310/1320 UTC	)5761 00000+++++++162
7682/5385/4570 kHz, 23-01, 1810/1820/1830 UTC	)5761 00000+++++++162
11077/9160/7507 kHz, 25-01, 1015/1025/1035 UTC	=8321 72677293529353871 ...)7101427142300000+++++204
11077/9160/7507 kHz, 26-01, 1015/1025/1035 UTC	(2111110009777423182507200839
11077/9160/7507 kHz, 27-01, 1015/1025/1035 UTC	=8611 59871680265149258 ...)581144+++++++91
11077/9160/7507 kHz, 28-01, 1015/1025/1035 UTC	=8491 82687839371917040 ...)57663 00000+++++++218 (2 msgs)
11077/9160/7507 kHz, 29-01, 1015/1025/1035 UTC	)5761 00000+++++++162

11077/9160/7507 kHz, 04-01, 1015/1025/1035 UTC

=7561 432878555955486112	=85441 535741497300462107	=80081 705759578547829150
=7862 15365780129269614	=85542 69826984323635380	=77382 444536697788358111
=8623 242695241067077102	=86043 551949464638396100	=83983 227647587589764131
=8544 48137066406303326	=83744 157645168381600106	=85984 403332116802257142
=8675 787992351886040102	=84145 323196425204031112	=78485 01978454067898463
=8486 657928768774949127	=86146 705010082767736101	=86686 155990002342619123
=8007 35881669699631010	=78247 307687371079240151	=85587 51446672289140095
=8738 461180376025428148	=83348 453741544822837174	=81788 987429377815089182
=8169 783617733125470151	=90149 698150451050144147	=81889 498737788277944121
=80110 66403663413771888	=80350 29983667355939770	=82290 51192715161546888
=85911 547347390532319104	=83951 977994323652298142	=85691 313563894680082106
=85812 227521958916416113	=85952 05875343580107547	=87192 38826085011502635
=87613 35190843054137582	=85253 87728691865661890	=86293 551180153031418127
=81414 85582328768539965	=83754 154024706067133109	=89494 354908127723696143
=83915 772645258582903124	=85555 667503786667521176	=87495 599477081242259150
=81716 968537225171861115	=75456 557506940989179144	=81096 55435777177953749
=86917 79806780183155981	=86157 714894968142385121	=81097 07812056270478334
=89318 86889027670877675	=78758 56111870413445585	=86198 152318724403216106
=87319 4939517707719644	=81459 66716858340478564	=81999 72860464224788164
=80220 64995549903485277	=78760 128442723232339126	=773100832212410894214100
=85621 37044546406185779	=81861 623255248519419103	=82410121881146311936265
=81622 49424461505669590	=78862 345703688426967174	=819102172724989412388171
=84023 312157393968973204	=75463 23595309998026698	=841103668029884134958135
=82924 30129855093368189	=85764 675523229040305120	=75910400634069501552970
=82025 722258504632961136	=87165 41022677444179369	=85810505089194271495692
=80226 33215710073325063	=84066 62859906080785975	=852106924860800092082115
=81827 891010778104482147	=87167 43799826955200281	=83210706118747258639538
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=85233 288129504366136106	=79873 22847433233105197	=85911354508764686022069
=81734 54282485866379657	=81674 61492230095375477	=788114708381869134147138
=84535 623221246301423149	=78875 31221019152056248	=831115292300284532962133
=87036 160615613804470109	=82276 06501588315417832	=789116738495532200423124
=81737 78351964169263176	=81177 270553545939101120	=756117024125889819447112
=79038 412653777789831106	=82178 98058848044436634	=800118649689230581991151
=77839 363591923904691113	=87579 265326014772156134	=85311992005580373315089
=86740 114728920153039151	=83080 268887409703521116	=785120843149715466595113

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11077/9160/7507 kHz, 01-01, 1015/1025/1035 UTC

=8431 54377246658046696
=8622 68305118607730511
=8173 97442602529782095
=8254 92841767292945031
=8225 313801714474016102
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=8567 042062579453807111
=7878 62315125115405432
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=84510 55046659303797668
=83911 947732869408550180
=81712 86951388484417197
=83113 570586314078168148
=81614 83348192267246761
=84915 526897262735234101
=87116 31729008575158291
=85817 14653222467164192
=79818 51864246939987392
=86119 183108478921913113

=84220 22283786116106183
=85121 445717947871092171
=87022 540630000000000138
=72023 00000000000000109
=84024 00000777533758465
=86325 71482367047645340
=85926 433164282914585146
=78927 101632627194007133
=80128 74264363664074581
=85129 05843416136817697
=85830 46131194221765411
=80731 636147205455502107
=83932 443279818100006105
=84833 16429828560042977
=86034 59914627716564474
=86835 55192651088184157
=83736 07643042053408191
=85137 902998813698744138
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=87441 11674260326845793
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=84244 210810452306981129
=82045 396710096000711114
=83746 11642803108446356
=86347 88027385067257770
=89148 682398268408546182
=85149 9591697437250579
=86350 7176315949531576
=83451 606633082196349144
=85752 80618247518273355
=80153 010726898485186107
=86654 52063540745509168
)57655 00000+++++++151

Same message now as 5-figure groups

54377 24665 80466 68305 11860 77305 97442 60252 97820 92841
76729 29450 31380 17144 74016 61077 46996 40346 04206 25794
53807 62315 12511 54054 00935 87913 94507 55046 65930 37976
94773 28694 08550 86951 38848 44171 57058 63140 78168 83348
19226 72467 52689 72627 35234 31729 00857 51582 14653 22246
71641 51864 24693 99873 18310 84789 21913 22283 78611 61061
44571 79478 71092 54063 00000

77753 37584 71482 36704 76453 43316 42829 14585 10163 26271
94007 74264 36366 40745 05843 41613 68176 46131 19422 17654
63614 72054 55502 44327 98181 00006 16429 82856 00429 59914
62771 65644 55192 65108 81841 07643 04205 34081 90299 88136
98744 72517 38037 38868 84030 14013 05500 99457 20044 42915
11674 26032 68457 47740 74888 64027 00368 78583 93648 21081
04523 06981 39671 00960 00711 11642 80310 84463 88027 38506
72577 68239 82684 08546 95916 97437 25057 71763 15949 53157
60663 30821 96349 80618 24751 82733 01072 68984 85186 52063
54074 55091 00000

7629/6783/4034 UTC, 05-01, 1940/1950/2000 UTC

68018 21580 12718 90984 71978 42908 63295 15965 53089 24615
46708 99563 80466 07449 88867 45293 77613 92301 55664 88859
51713 91835 02233 29060 01553 58953 88871 41639 51878 76716
80142 26840 41010 12935 24016 72338 87115 88096 65364 40226
58124 44860 49085 23525 98156 29837 75713 59771 59578 58021
23437 02534 92815 22947 35291 14679 67488 48860 78894 25336
12191 25333 09492 42846 73040 64757 72872 92283 69754 29794
18775 85026 20043 24965 09304 56558 23773 65832 34864 52113
39894 60002 13741 86711 10765 41376 58385 25220 85825 01735
62292 46181 57557 95561 27413 06848 53868 15762 53132 19430
86297 54091 17831 51302 53254 69698 85226 91990 61557 06699
24518 57139 99850 84131 77637 45444 68883 00647 33265 40122
64783 42054 99856 60983 68829 49651 52439 45029 32133 88325
41376 57424 15571 99538 17621 33923 26467 20488 54482 60663
15319 54611 26942 95890 30940 83301 67071 63241 98833 78761
00710 36367 19895 86040 44511 85558 57698 06607 40442 15525
17839 38322 40324 49873 37981 56537 84634 68574 05780 09557
63328 62018 40587 24816 72353 87987 64038 50941 48206 58805
69811 13309 46209 78564 45387 32853 79260 35756 55369 01186
07571 40131 85401 84034 02843 96708 93866 61732 96839 25334
14325 20497 37945 97568 67905 32804 40396 85187 61232 50712
63730 99571 64382 89856 62240 70233 95072 39583 45192 07271
05711 26490 63658 40831 04808 45897 63979 90680 24193 13287
81869 25725 87379 69336 90053 50504 14144 01726 06315 21941
87071 82520 75363 55860 35196 25228 45669 09994 39304 31332
46275 71192 55529 71488 25473 41320 47169 42657 44633 76723
93914 31285 36145 38669 63168 49306 05315 33886 76854 40770
07490 22306 07760 44210 98853 25670 79472 70466 77576 25591
91525 54342 92169 07097 43763 72845 15167 39153 62763 28411
51846 66635 03094 31002 06764 91981 09692 42121 42590 13852
79532 36128 53309 22126 13670 89970 42042 67182 63786 13859
84024 07328 38429 87842 31829 40579 63220 41415 32453 30762
78264 55580 60083 11419 70839 83471 96703 68682 66471 80191
10109 53846 73951 18692 71126 90007 57980 48646 97917 78431
22237 95484 60478 59719 36782 81404 89090 45999 91538 68484
89451 06644 05315 22777 02646 29294 79549 62647 69014 08316
56538 68074 64915 50075 51865 75516 35384 14240 62703 41697
05391 31203 63658 78607 72512 53035 94951 34088 46676 72112
92463 28177 37714 68689 30900 68223 00151 06171 16699 23188
95674 52048 87083 34286 12374 67585 98046 31050 59380 79192
06755 94049 41578 62408 69643 61331 57547 27640 86158 72023
54451 23933 28993 27865 08330 04716 36663 56514 11220 58002
01707 01066 46422 00000

11077/9160/7507 kHz, 06-01, 1015/1025/1035 UTC

=8581 968050219847179123	=87551 59946850553145832	=85997 18646853422245384
=8482 076313977035751101	=75552 001161336788155108	=84698 309433715157202140
=7993 46385498132627310	=81453 233372333058200110	=84899 787249865114770123
=8344 70328501862641796	=84854 044700733663959148	=808100773042236948069222
=8415 12422923979558380	=85655 07017893019725574	=844101954683702843065129
=8066 20766814112582581	=81956 524199389998102121	=855102665278560191663147
=8267 163454883123820108	=85957 705255170288087132	=80510309822368466311677
=8298 52087377900195265	=90958 234299673118800121	=82010425158884339333548
=8279 94948157319786650	=80959 948216793046329211	=872105012988760022694104
=79110 208992890313528112	=83460 66998605913931778	=83510696643867550391749
=84211 86658622271409895	=78961 09216774952495747	=874107715758838636340122
=85812 907582155742852155	=85162 7823577852337714	=86810877178195521150776
=90813 59882930590025784	=84263 861425498974630152	=856109426663498402246120
=84714 73776089554728166	=82764 771427259196045151	=785110072870294092342144
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=79026 03770420277808781	=82176 74536905287092888	=80012230981015024802190
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=81528 251042139528289180	=83978 420239818228701121	=812124150472308395830191
=80629 46816690359956788	=87579 58836668746715356	=850125761325412019856124
=85130 319623029817422105	=85580 60327667553500282	=827126194225629087981508
=81131 232269315922210138	=88681 48386592097346494	=817127020344603201839182
=80932 63526711574319996	=83182 420239818228701121	=87512843463071354125979
=85833 410268417724749144	=87579 58836668746715356	=850129057829820435971138
=85834 50222084796818465	=85580 60327667553500282	=835130609908170961759124
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=84340 29305454415191839	=84886 01408842598240721	=830136214543708176314110
=85441 22878435226584467	=81587 31671910458037697	=773137344304209527606108
=79742 47294004400417179	=80188 501794425211529151	=89013824797525369302476
=83543 80455130227163269	=87289 155081354120197173	=787139939226307819125109
=83144 688942785568832144	=83890 899651639037109107	=84214010378452085449656
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=81746 73712353156015262	=85392 8813696110324495	=84314274641377820455652
=82247 067526833526841150	=80493 84576629669642895	=890143039610457230077136
=85948 355230073666016126	=81794 601032925498747105)7651445642900000+++++141
=87049 644972229488261133	=79395 391650221628350149	
=85150 781512847412500103	=82096 68839223418001396	

Same message now as 5-figure groups

96805 02198 47179 07631 39770 35751 46385 49813 26273 70328
50186 26417 12422 92397 95583 20766 81411 25825 16345 48831
23820 52087 37790 01952 94948 15731 97866 20899 28903 13528
86658 62227 14098 14479 20070 91479 59882 93059 00257 73776
08955 47281 98771 18932 75273 69774 06657 40037 12143 25573
16630 13445 40162 86878 10767 29885 89718 64305 10475 13068
37732 09317 82416 18061 43312 11286 17849 53991 20381 37632
25697 31849 43531 90449 12131 03770 42027 78087 29542 04011
94608 25104 21395 28289 46816 69035 99567 31962 30298 17422
23226 93159 22210 63526 71157 43199 41026 84177 24749 50222
08479 68184 03796 66988 32287 48748 22330 78769 89379 38322
56657 12285 14294 89347 42786 91593 22433 29305 45441 51918
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Same message now as 5-figure groups

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11077/9160/7507 kHz, 12-01, 1015/1025/1035 UTC

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11077/9160/7507 kHz, 13-01, 1015/1025/1035 UTC

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11077/9160/7507 kHz, 14-01, 1015/1025/1035 UTC

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=83613 617781251792383120	=85734 152566224362720101	=80755 028210203611034149
=81114 58363253188952765	=83435 186081959427394118	=83956 795645948468169101
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Same message now as 5-figure groups

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94930 38155 42206 26953 22290 27708 77112 53887 02476 73699
19767 67662 58917 19020 88408 53391 61778 12517 92383 58363
25318 89527 03574 92945 31130 81812 74801 66340 25687 99068
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92021 79750 41277 54652 31907 03412 78692 27020 68940 08188
18902 01015 60190 53530 04643 92738 73250 87824 04967 58065
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18043 89835 85159 09119 18381 00795 62373 87661 75315 15853
35968 79073 09232 68056 01807 90865 73676 80104 23166 63329
64612 79334 49411 81637 74677 37808 60150 15391 84662 98419
39570 09042 09381 72995 10639 71631 40112 23288 83846 39287
50827 60821 00200 08906 60362 26530 73129 66469 67738 36111
59019 58424 02821 02036 11034 79564 59484 68169 95928 75863
03496 84581 78549 85669 72289 41835 03677 67737 08822 75684
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11077/9160/7507 kHz, 18-01, 1015/1025/1035 UTC

=8011 975655322249958148	=86348 266669918023764115	=84195 32457453691394889
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=8125 93625646078545857	=84452 27563642812588392	=85599 109148219902573106
=8376 286421021426443158	=77253 26588319218414879	=859100769059971838490171
=8177 749550691401495985	=78554 80736041466457873	=816101257160293890732204
=7848 12441028098502034	=80155 138677193725435105	=847102442013942656939246
=8569 33806206696627495	=82256 58678287979949870	=846103863334187484612153
=84410 58796090424924572	=86657 81610004458728069	=834104594514418569593115
=82811 741763854684665121	=85558 66243173314087289	=832105755907655242209158
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=78513 57103399472790772	=84860 758688863432284183	=776107686778271019259111
=79914 49495569526956146	=87061 343351204605192205	=86910809321983227214080
=84415 230383653429442127	=85862 55442620316034396	=857109871722645240430138
=80016 2035527995626498	=84363 472392579901045984	=82111008210114894941381
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=85920 665668474085871112	=82167 260198239766769136	=784114405834089975675118
=81821 67338014296905573	=80268 131455328548634129	=816115047519699272168155
=80522 35098399203748945	=85869 90338072857723071	=80011640927894888291785
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11077/9160/7507 kHz, 19-01, 1015/1025/1035 UTC

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=8213 22673360397843480	=87926 353860270159189182	=84249 536001781080717150
=8194 46772879670497232	=82427 725637595909850108	=83250 641524878749113157
=7945 37651268516448286	=80828 603842601881689143	=89251 608661694742434134
=8236 48906679275029933	=86329 361770724470702138	=83652 12897933522642547
=8327 37282667700694989	=81830 284384347696206185	=78553 210434202719343112
=7728 95759256296012683	=84331 011922596339997115	=89054 575698030843864175
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=81610 774245883400422157	=81733 526082601884869154	=84356 724932161678610154
=84911 358374937419600133	=85334 86785029658326289	=80057 33691506712366673
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=85814 038745806955851145	=76337 000000000045831110	=86060 32149927106545075
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Same message now as 5-figure groups

65526 10209 49917 62980 91051 20994 22673 36039 78434 46772
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06949 95759 25629 60126 63767 89718 43085 77424 58834 00422
35837 49374 19600 09621 10177 70114 05112 29341 85089 03874
58069 55851 30865 21802 07736 78036 79686 98672 72188 82341
19139 24128 33306 21499 04546 08167 82956 39196 51108 85558
63809 67904 91758 48870 53220 42027 11676 64788 63612 93574
95396 53442 57800 22544 47468 35386 02701 59189 72563 75959
09850 60384 26018 81689 36177 07244 70702 28438 43476 96206
01192 25963 39997 40764 21148 48609 52608 26018 84869 86785
02965 83262 38933 66103 00000

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00183 21320 21708 88604 30026 07588 51494 95675 85658 35081
75376 45896 84451 35756 53600 17810 80717 64152 48787 49113
60866 16947 42434 12897 93352 26425 21043 42027 19343 57569
80308 43864 95040 63452 20818 72493 21616 78610 33691 50671
23666 55101 99593 58661 62145 70916 49575 32149 92710 65450
61152 36435 05413 81707 88092 09079 06674 19933 47319 88185
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11077/9160/7507 kHz, 20-01, 1015/1025/1035 UTC

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=8153 556251490082387161	=82148 568568355536097121	=82693 01663421491473181
=8164 10580062278740672	=83149 95922150290743369	=83594 56732289455963781
=7855 805987093009043985	=88350 638319262270217128	=80595 79341245368613799
=8076 7974798368638577	=80451 49544437903231679	=80996 08649004961497696
=7897 127008640739846101	=83852 32526020782030097	=84197 826701795805133117
=8018 436663157568502123	=80953 285010379821007155	=80998 531517105960259138
=8089 317702489317516126	=83054 81988431366294099	=85999 823978808587907108
=76910 56136540332885093	=81555 21442823070802044	=826100509744638250173116
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=83215 17448145913363972	=87660 6309908335484288	=86310535553535223461107
=81416 303402009619878155	=77461 02774903976554658	=837106209490900685609127
=79817 975522352585262105	=84262 391568514272737131	=84210791343642792874533
=87618 976682511548424125	=84963 64003366035511448	=832108672065123210270181
=79319 153872752625932125	=86364 209642030110636101	=80010926485701441358069
=86120 87017651768197681	=83165 71476512520153283	=77311042603027518256687
=81921 32633274317513943	=85966 02737467922717332	=770111217046593196104128
=84222 37956768443754099	=82267 043256498561063966	=87411248832300939114390
=84723 083510436645725182	=76868 217663400099531150	=832113282638882269680215
=84824 413980137120432111	=83469 778439183044738135	=756114055097352238834157
=83925 925096569765266121	=80470 03240862188160390	=82811521037823532593750
=82326 04551994884842485	=89271 26739472021711266	=789116812293139909991122
=85927 976655831216868159	=79372 98020512844579978	=870117626955505236493135
=86828 269199178255383127	=81473 07341247500964072	=803118445712712364788211
=84629 259504750953358186	=86274 949960986367183110	=837119730801654579745105
=85630 69945000626392199	=85675 067608457773653176	=85012029455931534542775
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=84032 16639339616082196	=87477 41650784576369564	=83612242548730731167299
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=84836 760783033648047110	=79881 410689050099940108	=848126491517635411546126
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=89538 69598665561274677	=76883 645574021918918169	=820128586148163771805194
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=84244 833243142145130153	=83589 89610733039662289	=846134171790638168401143
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11077/9160/7507 kHz, 21-01, 1015/1025/1035 UTC

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=8323 51051872346352695	=88526 087782055961630137	=82949 791963298717927106
=8554 057566532153025142	=84127 188739469097806102	=80050 33537459290365288
=8335 048127453224364113	=84628 38549180736988571	=80751 163135105462929109
=8736 41108950320193168	=83429 005223963030070101	=78352 430622202806064107
=8197 79063843056527441	=83030 080370818592832173	=84653 856797293940245121
=7868 53221799693133574	=76831 223626018418733104	=84054 82215963579888376
=8119 13984699285617139	=85032 76580057994920199	=83855 474717959858181152
=80210 09939663608555070	=81633 646861917325372108	=83656 25819875388844239
=80611 87628572927017947	=80134 92503703950376242	=79057 526538799040349115
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=87413 577162502141199136	=79236 523233035369107128	=86059 61808329267335169
=78914 20116284908259699	=75137 000000000065422127	=80260 460001839133932175
=86115 55733665883247547	=79038 71369815063677784	=87461 437579939664770155
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=87719 16798435655542788	=87042 54819064300922372	=85765 02267832151727081
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=83021 35057160283358481	=81844 586683936832854150	=75267 31101700890000062
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=79223 523266511295294134	=85646 60194999212704964	

Same message now as 5-figure groups

26335 82356 52723 70025 79793 49558 51051 87234 63526 05756
65321 53025 04812 74532 24364 41108 95032 01931 79063 84305
65274 53221 79969 31335 13984 69928 56171 09939 66360 85550
87628 57292 70179 23401 88148 03645 57716 25021 41199 20116
28490 82596 55733 66588 32475 73817 34230 00638 58504 22607
70119 33437 57529 34182 16798 43565 55427 77853 95408 84666
35057 16028 33584 47903 92228 02832 52326 65112 95294 00808
43222 63644 03040 89106 03180 08778 20559 61630 18873 94690
97806 38549 18073 69885 00522 39630 30070 08037 08185 92832
22362 60184 18733 76580 05799 49201 64686 19173 25372 92503
70395 03762 78836 63901 05084 52323 30353 69107 00000

65422 71369 81506 36777 73844 76861 75779 91707 13906 42008
14658 96648 15481 54819 06430 09223 22604 90138 73627 58668
39368 32854 37838 13641 87629 60194 99921 27049 49972 50289
51578 37635 96361 09190 79196 32987 17927 33537 45929 03652
16313 51054 62929 43062 22028 06064 85679 72939 40245 82215
96357 98883 47471 79598 58181 25819 87538 88442 52653 87990
40349 26592 35659 73208 61808 32926 73351 46000 18391 33932
43757 99396 64770 25613 15038 90002 37955 37903 36354 36066
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11077/9160/7507 kHz, 25-01, 1015/1025/1035 UTC

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=8403 22636332545512576	=87051 443089825247291122	=85799 394698423737082100
=8014 01371070068204259	=79252 17970684787983878	=80010011200806099345092
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11077/9160/7507 kHz, 26-01, 1015/1025/1035 UTC, with header

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11077/9160/7507 kHz, 27-01, 1015/1025/1035 UTC

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11077/9160/7507 kHz, 27-01, 1015/1025/1035 UTC

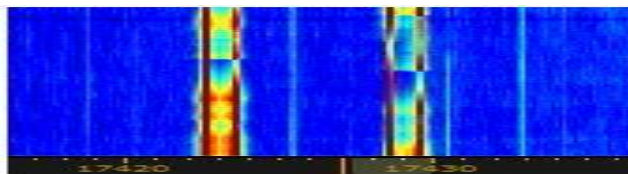
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48109 19336 06594 51458 08416 30255 18973 56464 20016 76078
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87977 81335 74698 06638 78219 51814 04604 49482 87836 20917
75427 31219 39994 25935 55924 82127 93581 73781 18037 23807
41053 23967 20531 31116 36839 24413 56791 14897 29768 67275
02717 05206 97918 56986 25647 39702 09357 07678 40272 86915
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77372 82404 95014 55487 70858 67282 44827 22573 51001 64525
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38353 31280 28536 65256 62712 52470 04786 64681 84209 49302
73077 13821 03359 87602 53835 46211 19950 01851 72065 24952
14784 97587 38165 90475 07282 33221 25694 93182 37414 23416
57069 65628 45377 31248 33091 76085 00000

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

41022 on 14721 kHz and 32799 on 17427 kHz
running next to each other



Link 00000

10316/8082/6827 kHz, 10-01, 1800/1810/1820 UTC

1bc0 0000 5890 4607 07f4
5a4a 9c86 b5a4 df8d fb53 49b3 c490 4593 55e7 7361
7c02 687a 7067 77f2 b72d a4e6 481d daaa 33cf 48c6
fc64 8b3c 9506 36d0 df93 9bde 77aa 7a17 c79f 6825
7c69 f29a e3c0 5726 ee16 69fc d7c0 b113 caf4 de1c
4b29 6aa3 7969 8d50 4db0 fad1 4574 0207 d86d ae56
7b41 1d4e 4925 6651 e74d 87c4 df0a c9e2 424a 9bdd
73f3 dd99 c15d 6e8e 9db5 3ea6 36fe 35b0 a613 1304
3e2c 4045 0ffa a95d fdf3 92c2 fb23 2d9a af33 3c65
c81a 9ddd a42d a99c dd66 3286 924c 05b8 56cc 850e
5739 5600 7133 1820 410f 60b6 c6f9 ecbf d8ca 6410
d8c3 1ddd 0de6 8b4a 4e67 f1ce 35b1 8c75 3ec7 952a
e9d1 598e 7053 21c3 b64b 73d8 333e a7cd c160 6398
d0d7 68c6 b966 b494 85b7 cf93 6479 1b91 a440 4e4c
1494 b20a a391 b0cc 7a98 e2b7 b576 9821 0469 f3b8
ce9e bac7 d848 bf29 3bfa 9702 7437 bcbf 7bb3 0712
da33 3866 b494 a051 e46a dd70 1b92 112b 479d 9c2f
938c d03b b0b3 9498 81c4 e706 82f8 a56e edd4 1070
2db5 1dc5 f688 939e 661f 1cf7 8bb9 a59c 9167 cc0e
920e 3434 4212 4f95 661f 6793 31aa c941 aba4 0d9b
5266 3a45 e661 8796 6300 b0b6 d25e bb34 1179 24b9
2cd4 384c 3f62 dc47 caf6 5f37 9e59 52ff 182c 614d
d392 5046 2d03 b3fb 88cf 38e8 e021 c052 e3c3 4b89
0c31 0f0b 5e6d 1d1b f407 ebd1 da6f 32b7 269c 5cf9
84b3 38b3 a361 27dd f6aa 617b 0af0 8fe5 b1a4 2d40
0826 2000

Link 16404 / 16405

20944/18767/16344 kHz, 13-01/14-01, 0900/0910/0920 UTC

Block No 0 : Total Message Size 23 blocks : This transmission contains one message.
Block No 1 : Link ID 16404 : 22nd of month : Msg Number 235 : Msg Type 07145 : Group Count (?) 144
22464 21587 34212 34686 55396 03323 05135 17454

Link 20492

19431/16046/14974 kHz, 13-01, 1015/1026/1035 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
Block No 1 : Link ID 20492 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
14236 00000 00000 03526 31284 34878 00893 58544

Link 20501

9141/7859/5382 kHz, 05-01, 1650/1700/1710 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
Block No 1 : Link ID 20501 : 5th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 02954 12857 34651 00893 15534

12146/10234/8127 kHz, 09-01, 1530/1540/1550 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
Block No 1 : Link ID 20501 : 10th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
21036 00000 00000 03369 26517 36808 00893 27072

9141/7859/5382 kHz, 12-01, 1650/1700/1710 UTC

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

Block No 1 : Link ID 20501 : 12th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 00957 12857 34561 00893 05106

9141/7859/5382 kHz, 19-01, 1650/1700/1710 UTC

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

Block No 1 : Link ID 20501 : 19th of month : Msg Number 147 : Msg Type 07145 : Group Count (?) 4
44340 00000 00000 03302 26517 33050 00893 30605Link 24584

12146/10234/8127 kHz, 24-01, 1530/1540/1550 UTC

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

Block No 1 : Link ID 20501 : 24th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
56988 00000 00000 00586 12857 35571 00893 33163

9141/7859/5382 kHz, 26-01, 1650/1700/1710 UTC

Msg No 002/26th Type 07145 on Link 20501.

56989 00000 00000 03028 12857 36346 00893 24192

Link 32799

17427/15836/13394 kHz, 05-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 32799 : 5th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
50540 00000 00000 02854 09187 35126 00893 20900

17427/15836/13394 kHz, 12-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 32799 : 12th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
55564 00000 00000 00482 09187 33769 00893 47983

17427/15836/13394 kHz, 26-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 32799 : 26th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
07837 00000 00000 02168 14796 36687 00893 48418

Link 32821

20562/18469/16306 kHz, 02-01, 1500/1510/1520 UTC

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

Block No 1 : Link ID 32821 : 2nd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
21152 00000 00000 04088 28292 34456 00893 11240

18469/16306 kHz, 23-01, 1510/1520 UTC

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

Block No 1 : Link ID 32821 : 23rd of month : Msg Number 056 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 01999 12716 32880 00893 37105

16154 kHz, 23-01, 1550 UTC

Block No 0 : Total Message Size 8 blocks : This transmission contains 3 messages.

Block No 1 : Link ID 32821 : 23rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
24132 00000 00000 03629 28292 34449 00893 62467

Link 36882

19434/17522/15636 kHz, 09-01, 1100/1110/1120 UTC

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

Block No 1 : Link ID 36882 : 9th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
40604 00000 00000 03009 28573 35010 00893 54662

19434/17522/15636 kHz, 16-01, 1100/1110/1120 UTC

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

Block No 1 : Link ID 36882 : 14th of month : Msg Number 090 : Msg Type 07145 : Group Count (?) 250
23512 14166 58718 04669 28573 01942 49928 37161

1be9 9012 5bd8 8c5a faea [Link ID 36882, Date 14th, Serial #90]

e55e 3756 b71a dd40 ce94 308b ae11 e455 1d43 c1fa
e6da 90b3 6ac6 f81b c3ce 6ae7 59f2 e282 3d0d b8da
5763 d9db b182 28a5 0c72 2a80 3700 0295 3a14 1620
1a01 7a31 e264 ac5b 4228 0122 d991 7c30 86b0 6b40
7f3f e82c 3062 19e5 b381 f73d 7808 1ad6 8802 479d
40c8 1db7 687e 755a f21c 0555 d623 83e5 e31b d734
a79a ec35 aff3 3012 1d60 e5bd e1d6 7d13 e09d 6e19
c803 4f09 b24a deb2 80d9 019f 6001 ee85 66f1 4389
4013 2e6f 2942 00a4 0c64 edd7 8435 8236 9855 2ca2
ce18 ac6b 5a87 0c4f 66b9 766a f80f 599e a54d 1122
2ec8 c827 3d44 b2d1 e278 e1e9 9366 9b94 8f94 6ca7
77f1 f8c8 ae64 fd79 0070 b678 18b9 5d72 b06e 128a
87d7 3711 1b6e 8267 5e9c 6fc1 140a f6a9 5a26 516b
367f 6e59 d657 649f 67e8 d3a3 31d1 7561 ac57 3f1d
9db4 9f63 11cb 924c 8034 9566 84d7 4a39 7d73 c25d
3c94 332b 47a3 32d7 9506 7441 b71e 7db1 f9d0 ad17
986d d4ca 1ba3 4c9d 6054 a930 cca4 169c af7a edb6
8d2d 8dd3 3a1f 8812 c3aa e248 2369 4ddc 6229 1f47
3d6c eac8 977a a8d8 1771 97c7 6f73 9143 7959 3310
d1f7 edb6 75b7 dc6c e868 1cee 8cd9 4adf 814e 6d6d
e788 361b def6 dd94 0262 58a3 3e4a aa39 3e79 cb86
5c55 80a7 8180 fdc7 eefa eb27 33a9 7aa6 b2a0 c256
9577 789e 1b29 5329 b2d6 09b2 4aa9 fd82 b9c3 2000

19434/17522/15636 kHz, 23-01/24-01, 1100/1110/1120 UTC

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

Block No 1 : Link ID 36882 : 21st of month : Msg Number 092 : Msg Type 07145 : Group Count (?) 166
51488 15286 27384 07276 31234 35556 34777 10057

1be9 9012 c920 d25c a6e8 [Link ID 36882, Date 21st, Serial #92]

6af8 3bb6 b71a dd19 6854 768b ae11 de24 9d50 c1fa
e6d8 e41d eb98 0e46 ebe7 bb46 11a2 f79e 05fb c1a5
2e25 aacf 2832 b99e 2f58 a2e5 aaf5 e138 629a 0ba0
1e11 63ac ee26 ecc0 5b75 7cb0 4b55 127c aa84 d64f
60ec ebd8 0929 17e5 642e fc6d 032b 48cf cc47 9939
2255 e871 3967 9f71 1cb6 822f cadc 6818 94c7 d3ac
f245 a161 2114 cea5 d1b7 6a56 e1d8 6d46 a204 f74e
0055 2bf1 3db4 0eef 0ccf e572 a452 c300 d001 4baf
90f6 9b6b 2bf9 f2c1 d04e a0a7 8564 fe79 6c6b 71cf
a33e dbef 1679 1ff7 ad6d 8516 78c5 8e4b f5ea 02d2
0e07 0545 2a94 94ac 7d17 3e2b 2fa5 d037 1844 335e
a7c8 c45d df74 a168 7f88 d07e 112a 5f01 8737 4dcc
7299 714f 5dbc 0e5d 4116 e7e8 2ca7 2814 ccb1 f862
d24a 683b e35a 0c5a 0411 2d77 08d4 d8bc e12d 8534

de02 f437 87f8 d99d 6ae4 6449 4dda 8f58 9280 edd7
5189 3a00

19434/17522/15636 kHz, 30-01, 1100/1110/1120 UTC

Block No 0 : Total Message Size 50 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 36882 : 28th of month : Msg Number 095 : Msg Type 07145 : Group Count (?) 116
53101 14806 15632 06782 31234 03489 48576 37555

Two messages with different dates. A mistake???

1be9 9012 cf6d 185f 74e7 [Link ID 36882, Date 28th, Serial #95]

3d10 39d6 b71a dd06 8084 bc8b ae11 db32 5d57 c1fa
e6db 6b9c 5f70 7a5a dad7 7ab8 d604 4663 6a7b 2a97
052d 9665 4b75 f143 a110 e03b 049e c763 6194 efa3
1d6b 0ad3 9f47 8c6c d929 31d8 ab87 504c 5ea5 63dd
e2f8 f1ea ada2 b391 d80d 5f0a 7d20 34b8 715e 56d7
0f03 a51d 1607 6742 fe85 4841 7a2b 2881 7e1a b1a6
e1e8 1658 9909 11c2 9ec7 c3f7 a274 2da3 0419 d046
4c76 8ad6 743b 2083 8f3e e419 bb92 74ba dbf0 bd0f
33d1 1d09 aea2 9355 8909 3608 0e00 b54a 0150 7ab3
8bb0 6118 8a83 080b f460 ec24 41da a97a 57df 0d48
d7e5 370d e090 68b6 86b8 8720

1be9 9012 e21d 2261 d2e8 [Link ID 36882, Date 29th, Serial #97]

e9b0 3a76 b99a dd21 2084 c68b 1211 df61 5d58 c1c2
a6d8 4ef2 6679 673e 9a04 4288 9c2f 38ed 2963 e108
096b 4d94 5361 c21f b5a7 62d3 bc42 501d 0aae a335
db9c 0407 cc54 4ced b548 8c96 7aa6 1aa1 8dce 1542
0792 e67c e1fd 7c20 9607 ab1e 88d9 2162 ddf2 26f0
ddc0 5f86 1a4d 6011 3562 d541 2b0e 0012 e5e0 250e
7ce7 9122 d6c0 0824 17a5 d790 c6ad 4086 b725 8dcb
8a79 ae50 b2c9 26c8 8c20 5db9 b8ba c811 d289 8729
05da 3ea6 5db9 6c37 f000 2e57 80b3 ef7f f290 0abf
4949 a917 b841 0932 f057 ff70 2e46 cd07 5cc9 dba8
a644 ef6a 1f5e 7a60 1a8d affd 4463 e023 8352 c3fb
c07a fcd7 0c20 f706 8c61 a608 1ef7 dde0 032e 54f0
2171 116d fad1 ab18 d00c 3270 5f6f 1880 2226 4d69
a6ff 8dae 694a e28d 66c1 420c 0f43 7148 fe8a 0b11
93e9 5326 c033 fbd5 7c98 f498 f972 10a5 49d4 8782
d4b9 de94 7991 ab44 7906 ecc4 cea7 aa8c 637a bbf2
b11b 2525 b274 5e08 1319 47d5 c776 c763 8d23 28a3
d76d 6a16 e097 1c7a 79d2 6406 74d5 96ec bc6a c99a
fef6 90c8 9fb9 8588 c1a7 8828 0632 55ce 3315 b6d1
de21 09cd

19434/17522/15636 kHz, 31-01, 1100/1110/1120 UTC

Block No 0 : Total Message Size 49 blocks : This transmission contains one message.

Block No 1 : Link ID 36882 : 28th of month : Msg Number 095 : Msg Type 07145 : Group Count (?) 116
53101 14806 15632 06782 31234 03489 48576 37555

Link 40988

8126/7643/5148 kHz, 26-01, 2300/2310/2320 UTC

One message: Link ID 40988, Date 25th, Serial #160 - 84bc ab59 31cf be28 0aba ... 9cb4 (547 groups)

1be9 a01c 94c0 faa0 53ea
84bc ab59 31cf be28 0aba 689a 000c 8c82 7182 a2de
28e0 5a84 4122 9327 44d4 dff5 b447 23c6 9853 b8e4
ed69 ef8d 1407 9247 dc0a 965f 24cf bd48 224d 45f4
8325 3dd6 bc6c ea11 ee36 1a52 b648 291b a9a1 25e0
b0f7 9898 c079 f1c7 3c6b 22c6 43f8 a9c4 44c7 3868
1cc7 2cf4 e01c 6c4b 2775 c0c3 81ab 1399 900a 348b
0846 8fc8 2850 b0fc 9112 f47d 73bf 4885 1dbe 579e
af95 9972 278f fabb 5180 afa9 7eae 5f58 8b56 89f2
9a81 d2ae a20d 3b0c cd90 b2c8 9187 d280 a9c1 3868
cd4b aeee abf6 add1 04fe b0c1 db18 fb64 3b95 e0 54
9a5f 33fa 8582 1694 8a87 aa4d 7165 a405 3521 ca9c
efdd a671 2afe 8e17 9c87 15be 0f7a 8870 9080 a7e7
e323 7bbd f68c bb00 ef60 5332 036c 0a98 b20b e569
7d75 d723 74a3 8ec2 3666 ca68 8cc3 c817 25f5 99b6
4673 46c9 654d 17f0 09ec d03f d4e3 1515 6800 3cc5
a9b1 11d1 3917 111a c956 8887 5b9b 76e7 ce2e cf23
ecad 3a01 8d43 6fe4 0536 9d4e a733 06b3 dc67 ca01
6665 8186 a34b 66df 31e6 4f29 83f6 aa4e 4441 d11b
13c9 b7c6 3883 1893 59a4 3098 c5b5 d14e 288c c84b
f6f4 d31b 18b5 2901 7c30 28c5 4c91 1c11 2927 dc95
61b8 225e aa00 0772 3d35 31c8 7421 9969 481d f3cc
29fc 2009 b44a e8ae 006f 2d88 2640 e741 fdf5 404b
0d4e 35f5 8956 c799 4fe8 02f1 382c 5ac9 ff7c 2dcc
0dce 52e2 8878 5c55 ebc7 0922 37c3 9c7d 8df6 0454
2f91 c05a 6efc be27 cab8 e6b6 3641 8b1d 8030 3a75
a9e1 ccbe 8ca8 8283 bbb0 9885 a34d 3458 c7a8 965e
d858 3790 b500 3e57 0839 6286 c230 b5a2 06ba a20a

63dd 5e58 cf17 6796 b202 f18d b816 e25d 7513 59bc
88af f8d5 1511 45d7 5ddd df8d 741c cf6a 4f27 74b0
5546 6544 f7b7 eb19 b64a 8db6 a006 7736 ca0e cf8d
1982 ad87 1500 234f cc46 56ac f14e db28 bb01 1cb1
75fe 2c23 2a1b 8db7 efe8 ad7c 4b99 80b0 2824 7ef0
490e cc3d 57e2 adc2 1b8d b739 228d 9b18 9cd7 7174
d407 f838 c991 ec7d d6c3 f319 c6e8 db30 438a b755
d291 1f95 7eaa 7dc8 2ad6 3a02 09f4 1458 3e80 92b8
1d15 0ed1 0ec6 440a 836c 7a6f b0f3 8774 af24 d2c2
988d c312 92be 350d 564b 3365 a329 2bc9 f00c 98ca
a83d 0260 c9d6 1db4 fe5f 5d0d 64b4 5693 0228 eac8
6b10 776c e0ff a725 6aad 777e f8d1 5c92 8d3c 77f1
fe53 dbec 88f9 6e74 ec24 edf9 a64e 05c5 3cb7 c133
5550 309a e45e c3be b2b3 7671 1612 d7a1 39d4 dd9a
b0cd b910 438e ed7f 5a23 5db7 03ad 9b2c abea 1f8f
671d b1d0 bcc7 7770 c72d 8d01 a43b c137 6034 6ea9
10e1 6aac b497 8993 ab45 fd22 08bb 3c21 0e35 5f4c
c494 bd84 4713 1552 6f5f ade6 a1b2 841b ad14 36a6
1191 dc1f 5491 ec8d 02d0 6083 4e23 1fcf 7945 4ece
7409 5921 b642 3093 585b 7f56 1ca7 810e 78b1 a2ce
8587 71fb ecce c40a 3d2b fcc1 67ae e087 a41a 3b64
05c4 26b9 d7ad b37c be50 2b47 103d c94d c248 7c78
a890 c8b1 8a27 3e48 7297 54a0 e941 10fa 2029 2061
7795 624c 38da c163 e6aa d1a2 2e5c c796 eb66 1704
b63f a1aa ea42 3376 8dd5 2037 9132 38e2 d8f5 1cf1
95aa 327b 4663 7304 0796 380e 4b11 a6dc ae60 e0de
33d9 eb9d 6146 69b7 2d1f 948d 8b5d 9dd7 feae 2f9a
3453 a00a b9bd e7fa c4ac 75ba 9cb4

9066/7851/6962 kHz, 29-01, 0600/0610/0620 UTC

Block No 0 : Total Message Size 86 blocks : This transmission contains one message.

Block No 1 : Link ID 40988 : 25th of month : Msg Number 160 : Msg Type 07145 : Group Count (?) 83
38080 43865 33980 06114 22585 09352 57845 22884

Link 41022 / 41023

17421/15832/13526 kHz, 08-01, 1400/1410/1420 UTC

Null message: Link ID 41022

17421/15832/13526 kHz, 09-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 9th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 01848 50730 34999 00893 34494

17421/15832/13526 kHz, 10-01, 1400/1410/1420 UTC

Msg No 002/10th Type 07145 on Link 41022

63124 00000 00000 00118 53647 34513 00893 21521. (10Jan16) (MPJ)

17421/15832/13526 kHz, 11-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41023 : 11th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
05940 00000 00000 03638 05069 34615 00893 42405

17421/15832/13526 kHz, 12-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 12th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
56988 00000 00000 01767 50730 33592 00893 33882

17421/15832/13526 kHz, 13-01, 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

17421/15832/13526 kHz, 14-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 14th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
63124 00000 00000 00036 53647 36231 00893 40614

17421/15832/13526 kHz, 17-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 17th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
34156 00000 00000 03862 50730 36010 00893 36672

17421/15832/13526 kHz, 18-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 18th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
63124 00000 00000 02863 53647 35224 00893 28839

17421/15832/13526 kHz, 19-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 19th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39176 00000 00000 01110 50730 32954 00893 47617

17421/15832/13526 kHz, 20-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41023 : 20th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
26852 00000 00000 00762 01463 35947 00893 34062

17421/15832/13526 kHz, 21-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 21st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
34156 00000 00000 03860 50730 36342 00893 43104

17421/15832/13526 kHz, 22-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 22nd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
48908 00000 00000 00620 50730 33632 00893 65280

17421/15832/13526 kHz, 23-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 23rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
43904 00000 00000 01635 50730 35500 00893 62160

17421/15832/13526 kHz, 24-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 24th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 01808 50730 33516 00893 06105

17421/15832/13526 kHz, 25-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 25th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
34596 00000 00000 01855 50730 33224 00893 42963

17421/15832/13526 kHz, 26-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 26th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
63125 00000 00000 02014 53647 33366 00893 23295

17421/15832/13526 kHz, 27-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 27th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
48949 00000 00000 02727 50730 35770 00893 13115

13528 kHz, 29-01, 1420 UTC

Link 41022. 34597 00000 00000 02318 50730 36301 00893 56328

17421/15832/13526 kHz, 30-01, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 30th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
63125 00000 00000 03607 53647 36747 00893 51837

Link 45057

20971/18734/16326 kHz, 09-01/10-01/24-01, 1000/1010/1020 UTC

Block No 0 : Total Message Size 12 blocks : This transmission contains one message.

Block No 1 : Link ID 45057 : 31st of month : Msg Number 197 : Msg Type 07145 : Group Count (?) 66
20333 52517 19255 04300 46156 33763 50992 46380

1be9 b001 4f6d 36c5 42e7
4b37 cd25 af5e 61b8 5a7d cf46 1845 37ee d2d6 7f92
7413 069d bf98 f9df a8ad 8a15 ad5e e2ad c4cd de0b
1131 c4c4 a289 3686 2b97 3f1d a89e b36f daa8 8601
e5a7 1590 df47 abbf 9eb7 5274 7598 ca61 de9f b2a5
0a6e d063 7ce7 6ba0 6a98 8a02 c98f 4dc8 18de 28fe
0499 1cd1 642a 41b3 9907 9ef1 92d9 cdb6 da31 6a00

Link 45075

19926/17487/15912 kHz, 13-01, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45075 : 13th of month : Msg Number 112 : Msg Type 07145 : Group Count (?) 4
40448 00000 00000 00677 14597 33845 00893 27773

19926/17487/15912 kHz, 20-01, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45075 : 20th of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4
50636 00000 00000 00245 29748 33030 00893 40987

19926/17487/15912 kHz, 27-01, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45075 : 27th of month : Msg Number 102 : Msg Type 07145 : Group Count (?) 4
12705 00000 00000 02704 29748 32905 00893 46331

Link 45114 / 45115

17424/15633/13378 kHz, 23-01, 0900/0910/0920 UTC

Block No 0 : Total Message Size 12 blocks : This transmission contains one message.

Block No 1 : Link ID 45114 : 21st of month : Msg Number 060 : Msg Type 07145 : Group Count (?) 68
03912 05285 24597 37995 57479 00720 32333 44927

1be9 b03a 0f48 d23c 44f7 [Link ID 45114, Date 21st, Serial #60]

6015 14a5 bd95 b898 96a8 c767 2f07 03a1 f2b2 5e38
5775 0c54 d209 8cf7 4eed 7855 829b d74c 7999 f2ba
c741 2fd2 7611 5817 2486 3381 4901 497b 3bd6 b012
d4d4 9866 261f ab13 58d4 d112 8052 3902 3cbc 92c3
4207 244d 6abe a2a4 94f4 5266 46bd 7eae 14c5 e0c1
add1 2033 5e99 ee77 4172 fedf 5a08 2940 b1db ddc1
3510 4200

Link 45136 / 45137

10292/8066/6767 kHz, 01-01, 0700/0710/0720 UTC

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

Block No 1 : Link ID 45136 : 1st of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4
17896 00000 00000 00923 55182 36443 00893 24062

10292/8066/6767 kHz, 04-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 04-01, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45137 : 31st of month : Msg Number 020 : Msg Type 07145 : Group Count (?) 31
22285 16791 50645 34696 09959 04689 45767 34152

10292/8066/6767 kHz, 05-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 05-01, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45136 : 1st of month : Msg Number 022 : Msg Type 07145 : Group Count (?) 175
17932 47705 19051 34954 55182 34611 24228 48300

10292/8066/6767 kHz, 06-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 06-01, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45136 : 6th of month : Msg Number 027 : Msg Type 07145 : Group Count (?) 229
02276 24433 32332 37072 58024 34717 40327 54186

10292/8066/6767 kHz, 07-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 07-01, 1200/1210/1220 UTC

Block No 0 : Total Message Size 50 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 3rd of month : Msg Number 030 : Msg Type 07145 : Group Count (?) 153
32520 64513 08316 02228 55182 02143 52314 46626

Messages 1be9 b050 7f08 1e1e 99e8 207c ac01 eb20 3368 359b 4461 b5c7 3743 58d9 2d85 f685 8e75 d923 3fbc f7e0 8be4 99f5 2a51 da96 b5bb a890 2901 8e56 8852 f0ca bcf6 f7b3 91cf 0afd 9071 0d8a cc4e cc35 d767 d91b a06a 26e6 7457 cb06 a69e fb84 916a 1fde 52b1 b71d a0ee 8f25 0925 2d20 5b19 d0b5 af89 91ee a234 e39a a44e bc86 10f5 be49 b897 96bb 594b b8cb 7a82 1476 9a02 575f 6387 7a3d e22b 9477 7bb8 211e 6d7b 2cf9 b4d9 f074 4f64 dff6 b036 04be 57a4 3fad afa5 ad58 c040 519d 7d8d d065 0ec0 eea9 1798 8074 8711 d5a0 feeb 471d 3c3b e3d2 2fa7 b2b5 f63b 34bf 54f7 bbd9 c821 1eb5 62fa a24f 6182 cc0d 4e6e 28b5 96f5 69cf 3b35 f88a 36aa d929 a291 8370 dc9d ac47 596c db08 ca44 a56b c4c0 a820 644c c690 3377 88f8 f065 3e61 4b52 6c38 0e32 0aeb d719	1be9 b050 7a38 1e20 afea 1dfb db55 ce8b feb8 200d fb33 7f29 e8d4 de04 b557 ac95 49f6 08c6 5845 64b7 48a7 d19b 530a 16bc df5c e4c1 a374 58f3 56b4 1983 a52e a545 160f 262c 05a5 a2d3 9c5e 9c5f 4405 55f8 8723 1362 9ac9 3ea8 6303 8ecc 8e9d 69d4 0e57 43d2 a6e5 f02c f804 9bf9 1c47 5da0 bf41 9895 cd4c 313e 4903 96e0 2c14 a874 6463 8c18 a024 909f 5513 3867 b5b5 340f 16f0 74c1 2212 f190 acb3 6420 15b1 0d8f 0cb1 3644 6a81 0710 ef8a e1d2 e3c1 ba35 b191 5dd8 f758 5bae 1627 5d93 a51b 4129 9dca 24e2 d4b7 406e 542e f0e7 1595 8405 0202 d0ba 6653 35d0 1a17 89d7 9555 c274 6239 5934 e891 baa1 74a1 d23b ca85 b602 b802 44b2 c2ed 45a3 5b47 0439 edea 9a4c 5e5c d9f9 628d 870b 2bd1 1145 4905 6743 135a 5216 295d 2e55 eeb4 c960 dae8 0199 91b5 9576 1c86 4362 5816 650f 50d0 03eb 411d e555 ba1c 2d49 3d6a 9836 870f 54f1 4596 a457 4866 5788 d52b
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10292/8066/6767 kHz, 08-01, 0700/0710/0720 UTC

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

Block No 1 : Link ID 45137 : 8th of month : Msg Number 165 : Msg Type 07145 : Group Count (?) 4
32852 00000 00000 00667 09959 02867 00893 32591

10292/8066/6767 kHz, 11-01, 0700/0710/0720 UTC

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

Block No 1 : Link ID 45136 : 9th of month : Msg Number 035 : Msg Type 07145 : Group Count (?) 245
43820 46148 55448 23060 58024 02124 10817 44302

10292/8066/6767 kHz, 12-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 12-01, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45136 : 11th of month : Msg Number 037 : Msg Type 07145 : Group Count (?) 67
22736 60055 01271 40460 55182 39230 42227 23797

10292/8066/6767 kHz, 13-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 13-01, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45136 : 12th of month : Msg Number 042 : Msg Type 07145 : Group Count (?) 217
48620 08417 00791 23391 58024 33675 21031 13483

10292/8066/6767 kHz, 13-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 14-01, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45136 : 13th of month : Msg Number 045 : Msg Type 07145 : Group Count (?) 165
32540 55592 56951 33274 55182 03432 62078 04295

10292/8066/6767 kHz, 15-01, 0700/0710/0720 UTC

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

Block No 1 : Link ID 45137 : 15th of month : Msg Number 232 : Msg Type 07145 : Group Count (?) 4
26764 00000 00000 02679 01146 36010 00893 34199

10292/8066/6767 kHz, 18-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 18-01, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45136 : 15th of month : Msg Number 050 : Msg Type 07145 : Group Count (?) 17
17896 07365 64880 14880 55182 06445 24752 03237

10292/8066/6767 kHz, 19-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 19-01, 1200/1210/1220 UTC

Block No 0 : Total Message Size 67 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45137 : 18th of month : Msg Number 052 : Msg Type 07145 : Group Count (?) 223
37080 19824 42745 29875 07583 34268 51344 27566

10292/8066/6767 kHz, 20-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 20-01, 1200/1210/1220 UTC

Block No 0 : Total Message Size 40 blocks : This transmission contains one message.

Block No 1 : Link ID 45137 : 19th of month : Msg Number 057 : Msg Type 07145 : Group Count (?) 11
03768 53913 59326 33306 01146 40020 28925 17519

10292/8066/6767 kHz, 21-01, 0700/0710/0720 UTC

Block No 0 : Total Message Size 59 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 20th of month : Msg Number 060 : Msg Type 07145 : Group Count (?) 227
02276 29108 02702 00524 58024 01397 40414 38467

10292/8066/6767 kHz, 22-01, 0700/0710/0720 UTC

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

Block No 1 : Link ID 45136 : 22nd of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4
17896 00000 00000 03543 55182 33949 00893 54340

10292/8066/6767 kHz, 25-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 25-01, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45136 : 22nd of month : Msg Number 065 : Msg Type 07145 : Group Count (?) 225
26852 45218 41750 39799 55182 02758 31777 39121

10292/8066/6767 kHz, 26-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 26-01, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45136 : 25th of month : Msg Number 067 : Msg Type 07145 : Group Count (?) 185
17896 04722 50377 21958 55182 35733 51938 44177

10292/8066/6767 kHz, 28-01, 0700/0710/0720 UTC

10156/8021/6794 kHz, 28-01, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45137 : 27th of month : Msg Number 075 : Msg Type 07145 : Group Count (?) 223
56489 51897 08807 01671 01146 00210 33592 40896

10292/8066/6767 kHz, 29-01, 0700/0710/0720 UTC

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

Block No 1 : Link ID 45136 : 29th of month : Msg Number 117 : Msg Type 07145 : Group Count (?) 4
32621 00000 00000 00812 55182 34239 00893 09462

Link 49202

19311/16346/14492 kHz, 06-01, 1000/1010/1020 UTC

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

Block No 1 : Link ID 49202 : 6th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
50628 00000 00000 02549 34046 33058 00893 35313

19311/16346/14492 kHz, 13-01, 1000/1010/1020 UTC

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

Block No 1 : Link ID 49202 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
17772 00000 00000 00929 28271 35883 00893 32444

19311/16346/14492 kHz, 20-01, 1000/1010/1020 UTC

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

Block No 1 : Link ID 49202 : 20th of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4
40604 00000 00000 00152 28271 01119 00893 11125**19311/16346/14492 kHz, 27-01, 1000/1010/1020 UTC**

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

Block No 1 : Link ID 49202 : 27th of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4
35269 00000 00000 02872 34046 03162 00893 11868

Link 49237

14659/12184/10241 UTC, 07-01, 1330/1340/1350 UTC

Null message: Link ID 49237

14659/12184/10241 UTC, 14-01, 1330/1340/1350 UTC

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

Block No 1 : Link ID 49237 : 14th of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4
61204 00000 00000 03933 54891 33692 00893 65050**14659/12184/10241 UTC, 21-01, 1330/1340/1350 UTC**

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

Block No 1 : Link ID 49237 : 21st of month : Msg Number 022 : Msg Type 07145 : Group Count (?) 4
02092 00000 00000 02817 49619 36479 00893 41805**14659/12184/10241 UTC, 28-01, 1330/1340/1350 UTC**

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

Block No 1 : Link ID 49237 : 28th of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4
02093 00000 00000 02537 49619 35496 00893 26582

Link 53277

16327/14824/12164 kHz, 20-01, 1230/1240/1250 UTC

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

Block No 1 : Link ID 53277 : 20th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
26852 00000 00000 03205 28854 35947 00893 56753

X06 - Mazielka



X06b spectrogram. Sequence: 1--6—



X06 spectrogram. Sequence: 215346

Code	Freq	Date	UTC	Details	Code	Freq	Date	UTC	Details
X06b	11123	2-1	0837	Sequence: 1-6- with some interference from the E07a test tones	X06	13423	11-1	0946	Sequence: 421635
					X06	13423	11-1	0946	Sequence: 412635
X06b	11123	2-1	0841	Sequence: 1-6-	X06	14655	13-1	0754	Sequence: 164253
X06b	16167	8-1	1252	Sequence: 1--6-- before XPA2	X06	20950	13-1	0810	Sequence: 435621
X06b	16167	8-1	1255	Sequence: 1--6-- before XPA2	X06	14379	13-1	0838	Sequence: 521634

Code	Freq	Date	UTC	Details	Code	Freq	Date	UTC	Details
X06	13369	13-1	0840	Sequence: 412356	X06	14631	20-1	0925	Sequence: 362154
X06	16116	13-1	0851	Sequence: 134265	X06	14631	20-1	0929	Sequence: 362154
X06	15878	13-1	1055	Sequence: 621543	X06	17430	20-1	0943	Sequence: 214356
X06	18660	13-1	1101	Sequence: 621543	X06	17430	20-1	0948	Sequence: 214356
X06	15878	13-1	1122	Sequence: 621543	X06	16115	20-1	1105	Sequence: 215346
X06	16153	14-1	0814	Sequence: 153624	X06	18575	21-1	1235	Sequence: 352416
X06	10214	14-1	1517	Sequence: 263145	X06	18575	21-1	1238	Mazielka
X06	18197	15-1	0925	Sequence: 645321	X06	14865	24-1	1138	Sequence: 261453
X06	14501	15-1	1049	Sequence: 361245	X06	13517	25-1	0934	Sequence: 463125
X06	14501	15-1	1109	Sequence: 361245	X06	18060	26-1	0920	Sequence: 463125
X06b	16138	17-1	1241	Sequence: 1--6--	X06	14944	27-1	1159	Sequence: 621543
X06	13481	17-1	1307	Sequence: 452163	X06	14419	28-1	0759	Sequence: 521634
X06	10181	17-1	1317	Sequence: 452163	X06	16153	28-1	0803	Sequence: 153624
X06b	8194	17-1	1739	Sequence: 1--6--	X06	10214	28-1	1503	Sequence: 263145
X06	12157	19-1	0901	Sequence: 165423	X06	9106	28-1	1616	Sequence: 564213
X06	18206	19-1	0917	Sequence: 246531	X06	10535	28-1	1621	Sequence: 564213
X06	15687	19-1	0948	Sequence: 154263	X06	14863	29-1	1105	Sequence: 615243
X06	14358	19-1	1001	Sequence: 154263	X06	6879	29-1	1410	Sequence: 124536
X06b	15978	20-1	0745	Sequence: 1--6--	X06	14947	31-1	0800	Sequence: 351264



XPA

9108/10908/12208 kHz, 02-01, 0700/0720/0740 UTC

192 192 192 000

02417 00001 00000 10140

9108/10908/12208 kHz, 06-01, 0700/0720/0740 UTC

192 192 192 000

02839 00001 00000 10140

7891/6791/5391 kHz, 07-01, 1900/1920/1940 UTC

873 873 873 000

07947 00001 00000 10140

9108/10908/12208 kHz, 09-01, 0700/0720/0740 UTC

192 192 192 000

03338 00001 00000 10140

9108/10908/12208 kHz, 20-01, 0700/0720/0740 UTC

192 192 192 000

09592 00001 00000 10140

9108/10908/12208 kHz, 23-01, 0700/0720/0740 UTC

192 192 192 000

07814 00001 00000 10140

9108/10908/12208 kHz, 13-01/16-01, 0700/0720/0740 UTC

192 192 192 1

02817 00109 86678 45963 20774 27518 73400 71505 90116 84144
28426 41826 24259 63293 64444 33819 79948 68543 31658 99320
18127 76881 68578 70405 60141 56403 22616 32589 99422 55630
42957 92258 48085 29174 20120 42791 03795 62506 19942 16229
91979 89065 53340 98463 64119 49026 45933 21038 45022 34313
84199 59433 12792 89157 65458 11196 14873 22286 07547 10000
60333 22633 09551 20154 59067 16959 28153 84031 10700 71520
57628 28062 81791 81501 85918 25831 45361 23921 51299 35624
65685 86352 61567 91557 51613 57280 05484 24942 63150 14700
93912 05039 52447 99234 57472 81562 10801 92180 40299 77934
25248 72771 06636 45418 60161 53571 25932 98056 03183 21660
08471 76306

7891/6791/5391 kHz, 19-01/21-01, 1900/1920/1940 UTC

873 873 873 1

07039 00245 76195 65077 32531 18064 96190 24930 02212 26690
26059 51091 81841 30233 80486 84045 91519 28472 05993 24507
25573 97555 69825 51144 53650 78982 58975 36411 17079 84094
89839 92108 48027 60019 53097 71032 67978 12609 19818 52498
14446 18210 86678 25796 08590 52123 07549 84656 15462 73286
79378 25370 32274 59556 34997 62547 68739 99883 13732 62319
11028 32463 80541 86553 13397 44396 12860 52434 30474 64336
70334 05748 88210 12492 33949 80397 11739 63423 98952 78017
00909 88773 71651 98712 61100 86907 85099 28462 48759 16592
34576 29702 82457 34639 05462 40061 89785 20335 34953 00884
51660 77325 34619 68269 26036 21264 03815 03282 13910 22760
62365 74437 73780 13452 35063 43479 89765 12204 81544 02011
40168 05093 14014 87671 61160 92552 92085 80514 47396 62838
01622 47681 56831 22390 71784 21887 08526 32232 17789 55551
69736 23183 44422 81454 89586 86866 43755 53415 65174 34046
82111 99318 07797 60291 09590 17739 64348 75516 39859 71907
80547 32526 50208 16485 26783 61934 19547 90327 86029 65607
79585 96540 70214 78126 75232 22660 32278 40717 51858 35717
06568 19718 76676 93356 08941 60336 37801 81104 70992 06869
07966 80336 86949 37975 18471 09770 71156 25507 09862 59611
10431 07315 68521 56383 48980 92789 79884 20628 53158 83845
35412 49505 69185 70934 98101 44964 86391 65165 62794 39149
21918 68567 58375 17596 14504 97042 92357 51319 47164 02513
09739 48273 55887 06524 28023 81147 52707 65749 79997 01317
48435 41468 47390 95869 92620 78618 58538 24142

7891/6791/5391 kHz, 28-01, 1900/1920/1940 UTC

873 873 873 000

04638 00001 00000 10140

9108/10908/12208 kHz, 27-01/30-01, 0700/0720/0740 UTC

192 192 192 1

01849 00167 78965 53747 73953 46493 69507 19644 57192 97283
92499 45872 60924 70662 58338 49073 69001 03639 67621 36489
27432 17801 97514 06906 53502 63951 10704 84881 58070 54136
12250 76965 30625 07600 31428 90670 71914 02831 63987 26459
21580 83197 41508 39162 37257 29900 86034 74863 81752 10778
93741 81766 19976 34259 60405 92824 65284 19724 48694 36436
96577 79721 07648 15221 33841 40598 37523 11045 37447 39573
12426 22985 66166 23926 71197 25715 21268 81519 85432 68788
55242 11560 79322 62720 59260 79913 98698 24858 45496 59447
05386 52728 14483 15331 20917 15065 20470 55024 80384 42376
06406 30499 58572 17329 80555 39371 74637 21843 36392 46021
14137 65099 60063 26531 89541 76132 50310 44221 92590 33477
34737 41075 04254 43709 28726 37600 76301 65956 88073 55975
52941 38224 86751 52555 06488 80105 81487 48701 12007 25185
71127 99803 75930 28217 07087 51625 66483 52342 70280 23525
36511 81410 38211 62684 19703 22337 29758 07359 13804 48850
15875 87202 36057 83729 55309 54568 57382 90285 14182 47335



XPA2

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

06166 00001 00000 10140

16167/14663/13923 kHz, 02-01, 1400/1420/1440 UTC

06994 00001 00000 10140

16138/14438/13438 kHz, 03-01, 1300/1320/1340 UTC

02041 00001 00000 10140

15978/14978/14378 kHz, 04-01, 0800/0820/0840 UTC

06683 00001 00000 10140

13472/14772/16272 kHz, 05-01, 0700/0720/0740 UTC

06683 00001 00000 10140

16167/14663/13923 kHz, 05-01, 1400/1420/1440 UTC

04671 00001 00000 10140

5391 kHz, 05-01, 1940 UTC

09663 00001 00000 10140

15978/14978/14378 kHz, 06-01, 0800/0820/0840 UTC

05549 00001 00000 10140

13472/14772/16272 kHz, 08-01, 0700/0720/0740 UTC

06719 00001 00000 10140

16167/14663/13923 kHz, 08-01, 1400/1420/1440 UTC
04633 00001 00000 10140

16167/14663/13923 kHz, 09-01, 1400/1420/1440 UTC
04456 00001 00000 10140

15978/14978/14378 kHz, 11-01, 0800/0820/0840 UTC
00868 00001 00000 10140

13472/14772/16272 kHz, 12-01/15-01, 0700/0720/0740 UTC
05613 00121 63264 77390 74059 32605 84508 91324 32810 37171
94197 64475 42418 84812 12705 64107 60428 74490 57044 70597
24541 27324 63725 08239 78445 74717 52206 14864 05288 19663
57480 22882 11432 17089 15097 95545 63699 83428 36142 93270
29652 06678 48595 97580 97423 96007 37406 96071 12773 49173
49669 83452 95088 81708 06129 22331 49881 88330 70258 60988
88508 30017 57178 10869 14600 34510 99586 02568 54717 26749
51288 55531 35503 89580 88766 67114 06705 84795 30688 99853
66839 01660 08793 80932 19217 06580 25491 50116 52365 05782
32644 62719 22303 53826 73551 90784 06558 08667 29042 09769
74393 82362 16504 95547 89422 85313 41116 02374 99962 62446
06787 90420 02758 28489 03686 22028 05233 78456 60953 16335
04456 45320 94044 56520

16138/14438/13438 kHz, 12-01, 1300/1320/1340 UTC
07186 00001 00000 10140

15978/14978/14378 kHz, 13-01, 0800/0820/0840 UTC
05209 00001 00000 10140

16167/14663/13923 kHz, 16-01, 1400/1420/1440 UTC
05118 00073 64200 92628 30233 07550 77969 10929 07457 71275
95983 42491 21363 10799 02787 55232 63240 71443 74652 52655
25511 98801 29606 46788 66285 89670 94760 73375 08497 36190
24578 72636 50663 64816 26157 36177 19464 23460 37845 04947
12861 41240 50824 77651 82646 79684 94004 11644 54885 99164
30980 66807 28866 77994 17904 82520 10090 52390 81249 90262
44577 07448 20244 75328 73605 34934 50998 28412 08294 68468
40020 46283 98282 94530 11863 10605

16138/13438 kHz, 17-01, 1300/1340 UTC
00469 00121 15552 51507 35100 54325 39832 15718 87073 81775
76410 51247 38395 40856 91082 36007 41376 64079 74591 83380
93165 23866 62441 43050 15256 51952 87400 93120 64737 80896
41517 91726 19177 02619 57911 44674 23213 75679 31651 28043
43186 75338 57957 18070 17678 66326 07864 60791 43884 13874
04464 33171 75856 15553 77300 16283 44802 19000 63080 48333
58113 65839 19132 83259 01928 48600 04336 25765 09186 36437
00114 02141 81886 67166 48835 42258 65025 95616 55115 79484
25763 72267 28202 53185 47858 35930 35660 55160 55596 66854
46670 66376 77210 58144 02385 59409 46444 68530 33324 01189
11598 73827 66203 66921 76708 24655 57552 13888 00286 93126
09224 06534 21144 80101 18199 34235 77552 61627 26010 42262
89952 81269 84074 72131

15978/14978/14378 kHz, 18-01/20-01, 0800/0820/0840 UTC

03663 00191 42640 13740 67361 92447 57353 92315 37275 46180
37484 13264 77436 92465 48792 58350 49839 68718 93964 12530
42305 78457 83054 31273 32820 55853 86527 61853 38866 61829
66878 15733 99372 23715 87383 94125 71529 31599 07321 86812
70807 39051 19872 55609 51445 75462 26828 11089 25590 23329
01851 82405 00880 35627 26604 33663 56050 33827 71340 78222
66464 02188 21141 94667 47468 15599 35233 55846 70005 36540
40076 77333 18634 17550 81290 29492 54699 10911 34429 05420
49403 90361 81107 31909 95688 52770 08862 52216 02026 62228
72555 17746 37336 38728 43510 00069 33060 05972 70050 88822
50520 26068 25376 19577 18219 72000 31102 23320 83602 49489
40087 01131 59399 74723 53259 84766 06177 67638 86721 78181
42996 44600 82545 42494 36436 79067 55613 27537 40357 89978
51139 60240 89698 34941 16703 97534 53556 51638 34355 28590
36008 48415 45215 37247 76728 86719 07571 61649 82331 46929
98340 12372 13522 27354 76904 83720 28370 04183 26952 02751
31513 12805 84969 31012 61962 94912 31833 16761 51978 60963
86349 62680 08377 68234 30602 74058 09774 87468 73713 66366
56908 41833 31030 20085 59402 66941 13495 73883 89890 40484
65076 48109 89034 31056

13472/14772/16272 kHz, 19-01, 0700/0720/0740 UTC

09776 00001 00000 10140

13472/14772/16272 kHz, 22-01, 0700/0720/0740 UTC

09391 00001 00000 10140

16167/14663/13923 kHz, 22-01, 1400/1420/1440 UTC

01116 00001 00000 10140

16167/14663/13923 kHz, 23-01, 1400/1420/1440 UTC

01971 00001 00000 10140

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

03655 00001 00000 10140

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

03725 00001 00000 10140



XPA2 null message

16138/14438/13438 kHz, 26-01, 1300/1320/1340 UTC

08160 00001 00000 10140

13472/14772/16272 kHz, 26-01/29-01, 0700/0720/0740 UTC

04549 00087 27458 13637 32727 83671 48498 86694 11659 80713
39758 61332 05449 94325 05208 98050 57003 62202 91001 10450
31754 43535 92447 34506 24317 32093 78104 53491 85314 07172
90136 45589 26113 64396 88301 46095 36548 50436 01154 02601
76007 88920 07261 21641 95306 40139 24985 74752 70841 25420
94559 10689 36172 58209 39390 90131 59470 56684 86813 61331
61225 87832 14586 90496 22065 29550 15413 93271 00198 72886
25696 38031 55812 22672 78019 47377 72295 67738 26568 52418
33332 22377 77116 22766 74713 82615 37532 65805 68334 22620

15978/14978/14378 kHz, 27-01, 0800/0820/0840 UTC

07158 00001 00000 10140

16167/14663/13923 kHz, 30-01, 1400/1420/1440 UTC

04621 00001 00000 10140

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

05135 00083 67617 89667 36456 14506 46492 14251 06370 50512
15939 12194 91367 22660 98304 63459 69230 78525 96035 06853
65538 89847 70580 55878 26023 52287 21167 65937 95114 64716
21105 01552 67744 30873 18592 31126 60054 04046 73815 91984
67517 62350 07132 64283 49410 16117 88780 82836 30262 14665
35777 50465 75234 41642 36459 23115 92478 52344 99660 33976
97182 68737 94070 98631 89421 34913 78174 02358 97521 07553
56555 92247 10121 33733 69682 12488 61116 94975 42825 68899
35987 37599 28250 18253 38797 16733



Polish Intelligence
(E11 family)

10359 kHz, 05-01, 0655/0700 UTC

0684 0684 0684 0684 0684
88888 88888 26109 18586 86481 11505 41608 69882 87601 19408
02538 66325 72685 42838 01698 83091 15618 27252 17229 28504
65915 94167 66945 02806 89935 57894 69710 12631 63195 62960
21453 03064 97663 52210 88888 88888
00036 00036

9968 kHz, 11-01/15-01, 0815/0820 UTC

0446 0446 0446 0446 0446
88888 88888 59899 39860 92581 85568 04915 69517 30434 98723
21422 52516 60150 11342 40624 34861 23405 18083 96949 23369
26241 73311 29449 00952 75586 04326 10599 01435 45576 05881
59210 18872 02255 58999 22647 16424 09412 36232 88888 88888
00040 00040

15915 kHz, 11-01, 1525/1530 UTC.

This schedule uses a different mapping (0 1 2 3 4 5 6 7 8 9 is 5 9 1 6 2 8 4 0 3 7).

88888 88888 47683 47579 43543 72140 33786 49217 08051 36593
24845 09055 55942 43657 42910 16585 19144 51942 55534 55942
43657 42910 30377 96059 94778 70457 40050 45411 94778 88062
84417 56728 88877 44697 01686 49277 49217 08051 88888 88888
00040 00040

9179 kHz, 12-01, 1610/1615 UTC

0877 0877 0877 0877 0877
88888 88888 28030 13861 71107 63222 18047 57326 04503 41315
37753 15608 04785 36590 23902 89474 34853 00193 67697 58258
03110 57668 62808 98959 62096 14619 29479 80244 85663 29351
32765 27748 69218 54396
88888 88888 00036 00036

16388 kHz, 19-01, 0730/0735 UTC

0433 0433 0433 0433 0433
88888 88888 65419 18092 98945 52317 18523 47399 75406 84200
17881 55449 68756 50261 25365 96108 11638 49165 08370 74385
49615 54585 48335 74078 57816 90240 50735 00933 33570 78758
84807 18701 06148 17858 97150 78929 88888 88888
00038 00038

7499 kHz, 19-01/22-01, 0900/0905 UTC

0554 0554 0554 0554 0554
88888 88888 52581 77053 81369 69367 65279 47021 64195 40173
85478 37503 10665 67640 73682 55108 39076 20601 11157 20103
17755 79402 04956 05233 99949 24677 31578 90001 06076 37228
59529 88909 56105 42195 62726 08157 88888 88888
00038 00038

7772 kHz, 26-01, 0630/0635 UTC

0574 05732574 0574 0574
88888 88888 22937 69976 01827 22752 50622 53771 57126 33620
01532 20275 97883 15580 50362 88568 16371 01723 10709 78102
70117 50626 65751 92943 61273 82827 58017 07859 26040 94501
62903 90136 18900 61537 68763 54909 15092 32510 88888 88888
00040 00040

7863 kHz, 26-01/27-01, 1150/1155 UTC

0325 0325 0325 035 0325
88888 88888 27610 91153 37299 55050 79715 85509 34858 62438
02257 02284 93817 92879 14921 11618 43611 65442 31318 08573
83886 90296 94479 87652 18544 89123 54385 60087 79518 06063
84927 23825 92495 84824 53970 64454 71686 88888 88888
00039 00039



Q26

Mode: 4+4 QPSK 75/3000 LSB

Freq	Date	UTC	Mode
4283	12-1	1300	Message
7553	9-1	0908	Messages
7553	11-1	0900	Messages
7553	12-1	1300	Message
7553	24-1	0907	Message //9156 kHz
8073	7-1	0001	Message i.p.
8073	8-1	1131	Started in USB but switched to LSB at 1135 UTC. Messages
8073	11-1	0002	Messages
8073	12-1	0001	Message
8073	13-1	0001	Message
8073	15-1	1129	Message
8073	16-1	0001	Message
8073	16-1	1131	Message
8073	19-1	0001	Message
8073	22-1	0001	Message
8073	24-1	0001	Message
8073	25-1	0003	Message
8073	27-1	1130	Message
9153	12-1	1300	Message
9156	24-1	0907	Message //7553 kHz



Chinese military

Mode: 4+4 QPSK 75/3000 LSB

10914 kHz, 06-01, 1138 UTC

XYXYXYXYXY CY HW TKS ///

STOP XYXYXYXYXY OK TKS WK NIL SK HR END GA GB

ENDDDDDENDDDDDENDDDDDENDDDDD

ZCGGK46804676 +CGGK46804676 +CGGK46804676 +CGGK46804676 +CGGK46804676 +CGGK46804676 +CGGK46804676

STOP X YXYXYXYX AGN

STOP XYXYXYXYXY U GD QSA3 /

XYXYXYXYXYXY OK

IEC 07 57 /

STOP XYXYXYXYXY OK QSL 1938 AHR HR MSG GA PSE CY

HR WK NR 246

5089 301 64 0106 1938

8110---8109

6864 7849 9567 8712 7104 2132 0251 3742 0335 0011

9182 2050 8454 4190 0129 8651 8730 4138 6403 8069

9672 4656 3542 6589 8279 6472 1554 9431 5804 5369

7696 8627 9348 5382 4382 9546 0671 6735 8350 6032

9591 9156 9728 9038 8732 8967 4186 3162 6041 4860

3297 0361 1821 9160 3487 0276 0412 8967 0385 2492
 3527 1256 4020 7983 1649 9014 0134 1071 1931 8763
 2936 5053 0945 7971 5124 7087 3106 7192 6594 1240
 7139 8405 3105 8546 7323 1317 5907 7619 4539 5745
 3084 5385 2754 9827 3890 2024 1695 5078 8760 7632-1
 8654 7039 5458 4715 3185 2804 9621 9530 0335 0012
 8769 6976 0601 8267 3424 6353 0482 4869 6735 3945
 9668 0260 9181 1462 0226 1478 5123 3718 2559 3486
 9833 6575 8921 0872 8727 7676 7562 8437 0920 8325
 7954 4083 0391 0493 2948 3656 2515 7308 0105 5823
 4932 2706 3228 5449 8002 4350 2937 1237 0840 8336
 8359 1059 5771 5629 5913 4074 9564 1477 7209 2691
 4934 0691 1257 4180 1978 8097 6084 7914 4519 2417
 5247 7965 3183 5694 6019 4802 2654 1795 1367 3060
 7816 3693 2704 8509 0613 3215 6078 4810 2382 2116-2
 1279 6851 4310 6229 5208 9461 0792 8361 0335 0013
 7924 2343 8435 5351 4632 4157 5842 2464 5779 7213
 4018 9057 6071 6774 0731 6307 0375 5903 5129 0395
 3165 6018 2421 1908 6858 9832 1916 9821 3586 6114
 2953 2875 0698 0645 1293 2109 5634 3184 6703 8738
 0484 4302 3259 4809 5409 1754 7280 7643 9140 6285
 6785 9350 6787 9574 1625 8697 4512 9520 8271 9560
 6309 6671 8013 8613 7979 0521 8029 9057 6583 7104
 1627 3039 7554 3427 9208 7637 3624 6197 3240 2938
 7521 8148 6742 6028 4183 3045 9568 5180 6894 4039-3
 6287
 QSL ?
 XYXYXYXYXY CY HW TKS ///
 #10+

20382 kHz, 20-01, 1049 UTC

HKGH HKGH HKGH DE SYRW SYRW SYRW QSA? ///
 HKGH HKGH HKGH DE SYRW SYRW SYRW QSA? 0///
 IDTY IDTY IDTY DE SYRW SYRW SYRW QSA? ///
 IDTY IDTY IDTY DE SYRW SYRW SYRW QSA? ///
 1XYXYXYXYXY HR QSA3 AHR MSG GA
 0998 99 18 0120 1849
 2534---3985
 4513 8749 0298 9833 2556 2889 8416 6443 0955 0613
 0339 2933 6391 1797 7906 1454 8230 2614 7471 0452
 Etc.

10914 kHz, 6-1, 1138 UTC	ZCGGK46804676 HR MSG GA PSE CY HR WK NR 246 5089 301 64 0106 1938 8110---8109 6864 7849 9567 8712 7104 2132 0251 ...
18521 kHz, 20-1, 0655 UTC	Chinese military. Messages, four figure groups, headers YZBF DE WCFU etc.
20382 kHz, 20-1, 1015 UTC	Chinese military. Messages, four figure groups, headers HKGH DE SYRW, HKGH DE KESN, etc.
20382 kHz, 20-1, 1049 UTC	IDTY IDTY IDTY DE SYRW SYRW SYRW QSA? /// HR QSA3 AHR MSG GA 0998 99 18 0120 1849 2534---3985 4513 8749 0298 9833 2556 ...



Czech intelligence

20456.5 kHz, 13-1, 1226 UTC, Pactor-III OL1A Czech Intelligence, Prague sends files using SCSMail



North Korean diplomatic stations

16450 kHz, 30-1, 1443 UTC North Korean diplo DPRK-ARQ 600/600 LSB
18635 kHz, 25-1, 0857 UTC MFA Pyongyang North Korea DPRK-ARQ 600/600 LSB



Egyptian diplomatic stations

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

6782.7 kHz, 18-1, 2227 UTC MFA Cairo clg Egyptian embassy Washington SITOR-A 100/170
7777 kHz, 29-1, 0148 UTC MFA Cairo SITOR-A 100/170
8022 kHz, 4-1, 1803 UTC MFA Cairo clg TVQX Teheran Sitor-A 100/170
9055 kHz, 1-1, 1710 UTC MFA Cairo (99910) clg 11107 Egyptian embassy London Codan
9067.7 kHz, 3-1, 2321 UTC MFA Cairo wkg IPTX Egyptian embassy Havana SITOR-A 100/107
9089.7 kHz, 3-1, 2319 UTC MFA Cairo wkg TVQX Egyptian embassy Tehran SITOR-A 100/107
10165 kHz, 29-1, 1200 UTC MFA Cairo Codan-3200 (AW2)

UTILITY ROUND-UP

RUSSIAN MILITARY TRANSCRIPTS

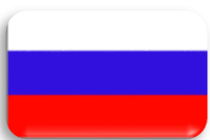
Excerpts from logs submitted by André, JPL, Ary.



RMv/RNv/RNAv/RAv Russian military stations

Frequency: various Mode: LSB/USB voice

3545 kHz, 25-01, 1422 UTC Tracking (Russian Voice)
3508 kHz, 27-01, 1400 UTC Tracking (Russian Voice)
2820 kHz, 28-01, 0500 UTC Tracking (Russian Voice)



M32

Russian / CIS Military CW Stations

2558 kHz, 05-01, 1830 UTC XXX 2LT8 79412 CEJLON 1633 1207 2201 LESNIÏJ 0620 K
5387 kHz, 04-01, 0954 UTC XXX WEGI 69395 ODURENXX 0388 4670 K
6220 kHz, 08-01, 1544 UTC DOQW DE TNHN K. DIY7 DE TNHN K. R K. FEZI DE TNHN K. R K. Z86H DE TNHN K. R K
4862 kHz, 14-01, 0746 UTC XXX WEGI 44155 MUSSOROK 5957 0484 K
10553 kHz, 14-01, 0948 UTC XXX WEGI 52343 SLOKAKUEK 4691 4950 K
4879 kHz, 14-01, 0955 UTC XXX VUOZ 40694 LIPAK 1520 1796 K
6686.5 kHz, 20-01, 1230 UTC XXX 9TIC 06362 NENADOBNYJ 7594 2927 K
6432 kHz, 21-01, 0941 UTC XXX VUOZ 04976 ÉGRIDIF 8022 7322 K
XXX VUOZ 17021 UGLERODNYJ 1187 2569 K
6881 kHz, 21-01, 0942 UTC XXX 1QRF 10587 SROKOGIK 8350 4379 K
XXX SHEU 13055 23108 SMYWKA 2641 9245 K
6881 kHz, 22-01, 1319 UTC XXX WEGI 11582 OBOLOHARÖ 3620 4295 K
6881 kHz, 22-01, 1323 UTC XXX 1QRF 06683 TUKOWEK 8968 2185 K
6881 kHz, 22-01, 1326 UTC XXX SHEU 99969 36179 WTUZOREV 8516 7645 K
6816 kHz, 28-01, 0207 UTC XXX XXX S9DQ S9DQ 354 354 QXS K
8408 kHz, 28-01, 0844 UTC O7JX O7JX 206 34 28 1140 206 = 440 = MMMMM H\HMRO P\OH\HS UIHB\O (Cont'd)
8118 kHz, 28-01, 0850 UTC LDBO LDBO QTC 245 32 28 1140 245 566 = PPPPP EMP'HD IPUFT YLBNE (Cont'd)
6834 kHz, 25-01, 0818 UTC KOLI: XXX GSXL AMFIBIÂ 01 1310 355 0900 1108 K
6834 kHz, 25-01, 1310 UTC KOLJ: XXX YE8R AMFIBIÂ 01 1310 355 0900 1108 K
3682 kHz, 29-01, 1750, i.p. YEOX DE 52YM

6732 kHz, 29-01, 0918 UTC, i.p.

3RMZ DE CJK1 QSA ? K
CJK1 DE 3FAG QSA 2 QSA ? K
3FAG QSA 4 K
OK K
R K
BA3Y DE CJK1 QSA ? K
YJE1 DE CJK1 QSA ? K
4E6M DE CJK1 QSA ? K
VVV DE 4E6M QSA 2 QSA ? K
4E6M QSA 4 K
OK K
R K

3160 kHz, 29-01, 1741 UTC, i.p.

KLIR DE KCND K
OKMG DE YEOX K
OKMG DE YEOX VVVV VVV K
OKMG DE YEOX VVV K
7J3C 7J3C DE YEOX



M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

8460 kHz

04-01, 1001 UTC	XXX REO 07181 ZABYWANIE 8161 6994 K
04-01, 1006 UTC	XXX REO 97357 DUCHOFORD 0554 4576 K
04-01, 1324 UTC	XXX REO 61977 GOFROKIPR 5468 9444 K
07-01, 1600 UTC	XXX REO 70151 LAZOSKAL 2420 5437
11-01, 0854 UTC	XXX REO 28997 KALIFORNIJ 1713 8845 K
11-01, 1300 UTC	XXX REO 12033 WKASOPLAN 5098 3535 K
14-01, 0745 UTC	XXX REO 16779 ANANAS 3892 5162 K
14-01, 0807 UTC	XXX REO 28720 LGUNODOT 7014 9006 K
25-01, 1244 UTC	XXX REO 32232 ARABOGEN 4179 0725 K
25-01, 1256 UTC	XXX RJD69 80554 DOLOChLAK 4203 8885

7523 kHz

08-01, 0700 UTC	XXX LR43 TEHNIOESKAA PROWERKA 540 K10 K (RMW36, RMW44, RMW46, RKL91 acknowledge receipt)
08-01, 0800 UTC	XXX LR43 TEHNIOESKAA PROWERKA 592 K (RMW36, RMW44, RMW46, RKL91 acknowledge receipt)

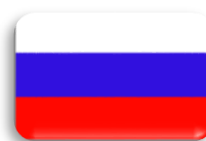
7160 kHz

20-01, 0900 UTC	RMW32 wkg RGR49, RGR87, RGR88, RGR89, RGR90, RGR91, RFH46, RGR94, RGR95, RDQ81, RGR96, RGR97, RGR98, RGR93, RGR92
20-01, 1047 UTC	RMW32 wkg RFN72, RFN75 (RFN72 RFN75 ZTC AR. RMW32 07 32 20 1334 = 999 = MF+XU RANKU LWAYC VZYPI XBYDL ÔSKAY YWHKU WSXTM ... FWPQB 124 RPT AL ZLN AR

3392 kHz, 27-01, 1806 UTC, i.p.

XXX XXX VZFY VZFY 70239 16981 D\UJMOPRUS 0175 4753 70239 16981 D\UJMOPRUS 0175 4753 K
 XXX XXX VZFY VZFY 60992 28004 D\UJMOPRUS 0475 4753 800 60992 28004 D\UJMOPRUS 0475 4753 K
 XXX XXX VZFY VZFY 60992 28004 D\UJMOPRUS 0475 4753 60992 28004 D\UJMOPRUS 0475 4753 K

8120 kHz, 28-01, 0851 UTC RAA OK AS 2 K. RMP DE RAA K. AR RAA QYT 4 QMO K



M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

8112 kHz Tu-95MS Bear H net

26-01, 0600 UTC	W-markers
26-01, 0605 UTC	NXY8 DE IWV4
26-01, 1120 UTC	W-markers
26-01, 1200 UTC	W-markers
27-01, 0700 UTC	W-marker

LOGS SECTION

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
---	8228	26-1	1427	Tue	613 (R) in progress, ends at 1427z	CW	(JPL-Sib)
CHN	10914	6-1	1138	Wed	ZCGGK46804676 HR MSG GA PSE CY HR WK NR 246 5089 301 64 0106 1938 8110---8109 6864 7849 9567 8712 7104 2132 0251 ...	4+4 QPSK 75/3000 LSB	(EW)
CHN	18521	20-1	0655	Wed	Chinese military. Messages, four figure groups, headers YZBF DE WCFU etc.	4+4 QPSK 75/3000 LSB	(EW)
CHN	20382	20-1	1015	Wed	Chinese military. Messages, four figure groups, headers HKGH DE SYRW, HKGH DE KESN, etc.	4+4 QPSK 75/3000 LSB	(EW)
CHN	20382	20-1	1049	Wed	IDTY IDTY IDTY DE SYRW SYRW SYRW QSA? /// HR QSA3 AHR MSG GA 0998 99 18 0120 1849 2534---3985 4513 8749 0298 9833 2556 ...	4+4 QPSK 75/3000 LSB	(EW)
CZE	20456.5	13-1	1226	Wed	OL1A Czech Intelligence, Prague sends files using SCSMail	PacTOR-III	(MCO)
DPRK	16450	30-1	1443	Sat	North Korean diplo	DPRK-ARQ 600/600 LSB	(PPA)
DPRK	18635	25-1	0857	Mon	MFA Pyongyang North Korea	DPRK-ARQ 600/600 LSB	(EW)
E06	4836	7-1	2030	Thu	321 237 20 06132 75514 79681 ... 49870 63962 04884 237 20 00000	USB	(AB/MPJ)
E06	4836	21-1	2030	Thu	321 613 20 14259 22676 32782 32782 76723 ... 12256 18841 73311 98089 12250 613 20 00000	USB	(MPJ)
E06	16350	8-1	0700	Fri	139	USB	(HFD)
E07	5182	4-1	2040	Mon	981 1	USB	(HFD)
E07	5182	6-1	2040	Wed	981 1 914 74 57490 98516 44589 088.6 1...2 03954 ... unreadable	AM	(MPJ)
E07	5449	7-1	2130	Thu	744 744 744 000	AM	(AB)
E07	5449	28-1	2130	Thu	744 744 744 000	AM	(AB)
E07	5882	4-1	2020	Mon	981 1	AM	(HFD)
E07	6777	7-1	2110	Thu	744 744 744 000	AM	(AB)
E07	6777	28-1	2110	Thu	744 744 744 000	AM	(AB)
E07	6794	10-1	1820	Sun	172 172 172 000	AM	(MPJ/HFD)
E07	6794	24-1	1820	Sun	172 172 172 000	AM	(AB)
E07	6982	4-1	2000	Mon	981 1 914 74 57490	AM	(HFD)
E07	6982	11-1	2000	Mon	981 981 981 000	AM	(MPJ)
E07	8123	2-1	0700	Sat	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07	8123	6-1	0700	Wed	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07	8123	9-1	0700	Sat	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB/HFD)
E07	8123	13-1	0700	Wed	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07	8123	16-1	0700	Sat	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07	8123	20-1	0700	Wed	134 134 134 000	USB	(AB)
E07	8123	23-1	0700	Sat	134 134 134 000	USB	(AB)
E07	8123	27-1	0700	Wed	134 134 134 000	USB	(AB)
E07	8123	30-1	0700	Sat	134 134 134 000	USB	(AB)
E07	8194	10-1	1800	Sun	only carrier	AM	(HFD)
E07	8194	24-1	1800	Sun	172 172 172 000	AM	(AB)
E07	9323	2-1	0720	Sat	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07	9323	6-1	0720	Wed	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07	9323	9-1	0720	Sat	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB/HFD)
E07	9323	13-1	0720	Wed	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07	9323	16-1	0720	Sat	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07	9323	20-1	0720	Wed	134 134 134 000	USB	(AB)
E07	9323	23-1	0720	Sat	134 134 134 000	USB	(AB)
E07	9323	27-1	0720	Wed	134 134 134 000	USB	(AB)
E07	9323	30-1	0720	Sat	134 134 134 000	USB	(AB)
E07	10423	2-1	0740	Sat	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07	10423	6-1	0740	Wed	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07	10423	9-1	0740	Sat	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB/HFD)
E07	10423	13-1	0740	Wed	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07	10423	16-1	0740	Sat	134 1 123 42 29216 50219 68239 ... 55578 26510 73992 000 000	USB	(AB)
E07a	4577	20-1	2140	Wed	825 1 16663 5808 77 26844 79958 85809 ... 62734 20334 66374 000 000	USB	(AB)
E07a	5277	6-1	2120	Wed	825 1 11602 7516 71 98360 44321 13357 ... 43180 58168 51548 000 000	USB	(AB)
E07a	5277	20-1	2120	Wed	825 1 16663 5808 77 26844 79958 85809 ... 62734 20334 66374 000 000	USB	(AB)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
E07a	5277	27-1	2120	Wed	825 825 825 000	USB	(AB)
E07a	5832	15-1	1750	Fri	688 1 32511 613 65 34090 44631 75042 ... 72959 96271 59817 000 000	USB	(MPJ)
E07a	5877	20-1	2100	Wed	825 1 16663 5808 77 26844 79958 85809 ... 62734 20334 66374 000 000	USB	(AB/MPJ)
E07a	5877	27-1	2100	Wed	825 825 825 000	USB	(AB)
E07a	6832	1-1	1630	Fri	688 688 688 000	USB	(AB/HFD)
E07a	6832	8-1	1630	Fri	688 688 688 000	USB	(GHn/MPJ)
E07a	6832	29-1	1630	Fri	688 688 688 000	USB	(MPJ)
E07a	7632	1-1	1610	Fri	688 688 688 000	USB	(AB/HFD)
E07a	7632	8-1	1610	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	7632	22-1	1610	Fri	688 688 688 000	USB	(GHn)
E07a	7632	29-1	1610	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	11123	2-1	0900	Sat	114 114 114 000	USB	(AB/HFD)
E07a	11123	9-1	0900	Sat	114 114 114 000	USB	(AB)
E07a	11123	23-1	0900	Sat	114 114 114 000	USB	(AB)
E07a	12123	2-1	0920	Sat	114 114 114 000	USB	(AB/HFD)
E07a	12123	23-1	0920	Sat	114 114 114 000	USB	(AB)
E11	4505	5-1	1604	Tue	232/00	USB	(MPJ)
E11	4505	10-1	1605	Sun	232/00	USB	(MPJ)
E11	4505	12-1	1605	Tue	232/00	USB	(AB/MPJ)
E11	4505	17-1	1605	Sun	232/00	USB	(MPJ)
E11	5082	7-1	1730	Thu	416/00	USB	(AB/MPJ)
E11	5082	21-1	1730	Thu	416/00	USB	(MPJ)
E11	5082	25-1	0450	Mon	416/00	USB	(HFD)
E11	5409	7-1	1530	Thu	262/00	USB	(AB)
E11	5409	21-1	1530	Thu	262/00	USB	(GHn)
E11	6940	7-1	0820	Thu	438/00	USB	(AB)
E11	6940	11-1	0820	Mon	438/00	USB	(AB)
E11	6940	14-1	0820	Thu	438/00	USB	(AB)
E11	6940	21-1	0820	Thu	438/00	USB	(HFD)
E11	7840	5-1	0645	Tue	517/00	USB	(AB)
E11	7840	7-1	0645	Thu	517/00	USB	(AB)
E11	7840	12-1	0645	Tue	517/00	USB	(AB)
E11	7840	14-1	0645	Thu	517/00	USB	(AB)
E11	7984	5-1	1205	Tue	469/00	USB	(AB/MPJ)
E11	7984	6-1	1205	Wed	469/00	USB	(MPJ)
E11	7984	12-1	1205	Tue	469/00	USB	(HFD)
E11	7984	12-1	1205	Tue	469/00	USB	(AB)
E11	7984	13-1	1205	Wed	469/00	USB	(AB)
E11	7984	20-1	1205	Wed	469/00	USB	(AB)
E11	9443	2-1	1705	Sat	392/00	USB	(MPJ)
E11	9443	6-1	1705	Wed	392/00	USB	(MPJ)
E11	9443	9-1	1705	Sat	392/00	USB	(MPJ)
E11	9443	13-1	1705	Wed	392/00	USB	(MPJ)
E11	9443	27-1	1705	Wed	392/00	USB	(GHn/MPJ)
E11	9443	30-1	1705	Sat	392/00	USB	(MPJ)
E11	9446	4-1	0830	Mon	649/00	USB	(AB)
E11	9446	4-1	0900	Mon	534/00	USB	(AB)
E11	9446	11-1	0900	Mon	537/39 Attention 06932 31585 65917 ... 05609 19371 55387 Attention, rpt msg, out	USB	(AB)
E11	9446	18-1	0830	Mon	649/00	USB	(AB)
E11	9446	18-1	0900	Mon	534/00	USB	(AB)
E11	9446	22-1	0830	Fri	649/00	USB	(AB)
E11	9446	25-1	0830	Mon	649/00	USB	(AB)
E11	9446	29-1	0830	Fri	649/00	USB	(AB)
E11	9950	6-1	0930	Wed	270/00	USB	(AB)
E11	9950	7-1	0930	Thu	270/00	USB	(AB)
E11	9950	13-1	0930	Wed	270/00	USB	(AB)
E11	10213	4-1	0745	Mon	262/00	USB	(AB/HFD)
E11	10429	3-1	0805	Sun	311/00	USB	(AB)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
E11	10429	6-1	0805	Wed	311/00	USB	(AB)
E11	10429	10-1	0805	Sun	311/00	USB	(AB)
E11	10429	17-1	0805	Sun	311/00	USB	(AB)
E11	10448	3-1	1625	Sun	972/00	USB	(HFD)
E11	10448	6-1	1625	Wed	972/00	USB	(MPJ)
E11	10448	10-1	1625	Sun	972/00	USB	(MPJ)
E11	10448	13-1	1625	Wed	974/39 Attention 18314 58926 73058 85045 79092 ... 42726 21625 05636 87096 61689	USB	(MPJ)
E11	10448	27-1	1625	Wed	972/00	USB	(GHn)
E11	10800	1-1	0710	Fri	633/00	USB	(AB)
E11	10800	12-1	0710	Tue	633/00	USB	(AB)
E11	10800	15-1	0710	Fri	633/00	USB	(AB)
E11	10800	19-1	0710	Tue	633/00	USB	(AB)
E11	10800	26-1	0710	Tue	633/00	USB	(AB)
E11	10800	29-1	0710	Fri	633/00	USB	(AB)
E11	12067	7-1	1925	Thu	551/00	USB	(Danix)
E11	12153	19-1	1045	Tue	576/00	USB	(AB)
E11	12513	12-1	1045	Tue	576/00	USB	(AB)
E11	12924	2-1	0710	Sat	491/00	USB	(AB)
E11	12924	7-1	0710	Thu	491/00	USB	(AB)
E11	12924	9-1	0710	Sat	491/00	USB	(AB)
E11	12924	30-1	0710	Sat	491/00	USB	(AB)
E11	14666	2-1	1345	Sat	911/00	USB	(AB)
E11	14666	12-1	1345	Tue	911/00	USB	(MPJ)
E11	14666	23-1	1345	Sat	911/00	USB	(AB)
E11	14666	26-1	1345	Tue	911/00	USB	(MPJ)
E11	14666	30-1	1345	Sat	911/00	USB	(MPJ)
E11	16112	1-1	0730	Fri	352/00	USB	(AB)
E11	16112	3-1	0730	Sun	352/00	USB	(AB)
E11	16112	7-1	0745	Thu	335/00	USB	(AB)
E11	16112	15-1	0730	Fri	352/00	USB	(AB)
E11	16112	26-1	0745	Tue	335/00	USB	(AB)
E11	16112	29-1	0730	Fri	352/00	USB	(AB)
E11	18030	5-1	1300	Tue	132/33 Attention 30096 47067 92306 77472 58551 ... 18957 72857 18206 09883 86869	USB	(MPJ)
E11	18030	6-1	2300	Wed	132/33 Attention ...	USB	(MPJ)
E11	18030	20-1	1300	Wed	161/00	USB	(GHn)
E11	18030	27-1	1300	Wed	133/00	USB	(MPJ)
E11a	5082	14-1	1730	Thu	413/35 Attention 01897 76090 85855 ... 88947 19168 26298 Attention, rpt msg, out	USB	(AB)
E11a	6304	8-1	2004	Fri	i.p. 49554 89124 95164 70207 69156 ... 04510 80754 90809 04757 62419	USB	(MPJ)
E11a	6304	22-1	2000	Fri	576/00	USB	(MPJ)
E11a	7840	26-1	0645	Tue	518/36 Attention 22937 69976 01827 ... 54909 15092 32510 Attention, rpt msg, out	USB	(AB)
E11a	7984	26-1	1205	Tue	461/35 Attention 27610 91153 37299 ... 53970 64454 71686 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	7984	27-1	1205	Wed	461/35 Attention 27610 91153 37299 ... 53970 64454 71686 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	9443	20-1	1705	Wed	385/35 Attention 90335 09850 90671 54322 19093 ... 26210 37372 60121 63145 15408	USB	(MPJ)
E11a	9443	23-1	1705	Sat	396/35 Attention ...	USB	(AB)
E11a	9446	11-1	0830	Mon	469/36 Attention 59899 39860 92581 ... 16424 09412 36232 Attention, rpt msg, out	USB	(AB)
E11a	9446	13-1	0900	Wed	537/39 Attention 06932 31585 65917 ... 05609 19371 55387 Attention, rpt msg, out	USB	(AB)
E11a	9446	15-1	0830	Fri	469/36 Attention 59899 39860 92581 ... 16424 09412 36232 Attention, rpt msg, out	USB	(AB)
E11a	10213	11-1	0745	Mon	262/38 Attention 69483 49377 06538 ... 00692 44343 10387 Attention, rpt msg, out	USB	(AB)
E11a	10448	17-1	1625	Sun	974/39 Attention 18314 58926 73058 85045 79092 ... 42726 21625 05636 87096 61689	USB	(MPJ)
E11a	10800	5-1	0710	Tue	634/32 Attention 26109 18586 86481 ... 03064 97663 52210 Attention, rpt msg, out	USB	(AB)
E11a	13046	15-1	0600	Fri	188/34 Attention ...	USB	(AB)
E11a	14666	5-1	1345	Tue	917/37 Attention 51177 71526 13528 04546 28367 ... 50755 83199 96870 28755 19808	USB	(MPJ)
E11a	14666	9-1	1345	Sat	917/37 Attention 51177 71526 13528 04546 28367 ... 50755 83199 96870 28755 19808	USB	(MPJ)
E11a	15632	11-1	1540	Mon	226/36 Attention 47683 47579 43543 ... 49277 49217 08051 Attention, rpt msg, out	USB	(AB)
E11a	16112	19-1	0745	Tue	332/34 Attention 65419 18092 98945 ... 17858 97150 78929 Attention, rpt msg out	USB	(AB)
E11a	16112	22-1	0730	Fri	359/34 Attention ...	USB	(AB)
E11a	20167	11-1	1222	Mon	528/33 Attention ...	USB	(F5JBR)
E17z	9820	7-1	0810	Thu	674 251 8 48075 38765 84829 85551 90045 99375 00015 65904 251 8 00000	USB	(AB)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
E17z	9820	14-1	0810	Thu	674 251 8 78071 38765 84829 85551 90045 99375 00015 65904 251 8 00000	USB	(AB)
E17z	11170	7-1	0800	Thu	674 251 8 48075 38765 84829 85551 90045 99375 00015 65904 251 8 00000	USB	(AB)
E17z	11170	14-1	0800	Thu	674 251 8 78071 38765 84829 85551 90045 99375 00015 65904 251 8 00000	USB	(AB)
E25	6140	2-1	1140	Sat	Male operator - live. 950 Message (2x) 1031 6743 7811 5081 3533 0325 2959 3741 5551 8895 5003 3794 7811 Rebeat (3x), msg rpt	AM	(qsr711)
E25	6140	3-1	1220	Sun	ID 950, same male voice as 2 Jan. Too weak to copy the message	USB	(qsr711)
EGY	6782.7	18-1	2227	Mon	MFA Cairo clg Egyptian embassy Washington	SITOR-A 100/170	(AW2)
EGY	7777	29-1	0148	Fri	MFA Cairo	SITOR-A 100/170	(AW2)
EGY	8022	4-1	1803	Mon	MFA Cairo clg TVQX Teheran	Sitor-A 100/170	(PPA)
EGY	9055	1-1	1710	Fri	MFA Cairo (99910) clg 11107 Egyptian embassy London	Codan	(AW2)
EGY	9067.7	3-1	2321	Sun	MFA Cairo wkg IPTX Egyptian embassy Havana	SITOR-A 100/107	(AW2)
EGY	9089.7	3-1	2319	Sun	MFA Cairo wkg TVQX Egyptian embassy Tehran	SITOR-A 100/107	(AW2)
EGY	10165	29-1	1200	Fri	MFA Cairo	Codan-3200	(AW2)
G06	3696	10-1	1658	Sun	574 574 574 00000. At 1656 UTC: 111. Starts 2 mins early	USB	(AB/MPJ)
G06	3696	11-1	1700	Mon	574 0	USB	(HFD)
G06	4039	6-1	1300	Wed	574 0	USB	(HFD)
G06	4460	7-1	1300	Thu	000000 (1x) 3329 3299 33299 000000000 (R3m30s) 3329	USB	(qsr711)
G06	4519	14-1	1827	Thu	271 215 24 32144 92249 99927 ... 69145 74845 35749 215 24 00000 (2,5 mins early)	USB	(AB)
G06	4519	28-1	1830	Thu	271 20 14259 22676 32782 ... 73311 98089 12252 271 20 00000	USB	(AB)
G06	4562	11-1	1758	Mon	574 574 574 00000. At 1752 UTC: 111. Starts 2 mins early	USB	(AB/MPJ)
G06	4562	11-1	1800	Mon	574 0	USB	(HFD)
G06	4792	15-1	1930	Fri	436 271 20 14259 22676 32782 ... 73311 98089 12250 271 20 00000	USB	(PPA/MPJ)
G06	4792	29-1	1932	Fri	436 271 271 20 20 14259 ...	USB	(PPA)
G06	4912	6-1	1200	Wed	574 0	USB	(HFD)
G06	5230	4-1	0758	Mon	329 329 329 00000 (2 mins early)	USB	(AB)
HM01	8135	7-1	2300	Thu	36551 86614 27852 07036 83212 86704. Should be M08a	AM/RDFT	(DSch)
HM01	9065	3-1	0759	Sun	36551 86614 17851 07036 83212 86704	AM/RDFT	(AB)
HM01	9065	8-1	0859	Fri	36551 86614 17851 50640 83212 86704	AM/RDFT	(AB)
HM01	9155	3-1	0959	Sun	36551 86614 17851 07036 83212 86704	AM/RDFT	(AB)
HM01	9155	8-1	0959	Fri	36551 86614 17851 50640 83212 86704	AM/RDFT	(AB)
HM01	9155	13-1	0959	Wed	36555 86619 17855 50645 83217 06711	AM/RDFT	(AB)
HM01	9240	3-1	0859	Sun	36551 86614 17851 07036 83212 86704	AM/RDFT	(AB)
HM01	9240	8-1	0937	Fri	i.p. 36551 86614 17851 50640 83212 86704	AM/RDFT	(AB)
HM01	10715	1-1	2158	Fri	36551 86614 17851 07036 83212 86704	AM/RDFT	(N2UHC/DSch)
HM01	10715	1-1	2200	Fri	36551 86614 17851 07036 83212 86704	AM/RDFT	(Dan)
HM01	10715	6-1	2200	Wed	36551 86614 17851 07036 83212 86704	AM/RDFT	(Dan)
HM01	10715	10-1	2200	Sun	36553 86617 17853 50643 83215 86707	AM/RDFT	(Dan)
HM01	10715	11-1	2200	Mon	36554 86618 17854 50644 83216 06711	AM/RDFT	(Dan)
HM01	10715	13-1	2200	Wed	36556 40001 17856 50646 83218 06712	AM/RDFT	(Dan)
HM01	10715	15-1	2200	Fri	36551 86615 17851 73041 83213 86705	AM/RDFT	(Dan)
HM01	10715	17-1	2200	Sun	36553 86617 17853 73043 83215 86707	AM/RDFT	(Dan)
HM01	10715	18-1	2217	Mon	36553 86617 17853 73043 83215 86707. Switched from 11635 kHz. Tuning at 2217 UTC and messages at 2220 UTC	AM/RDFT	(DSch/Dan)
HM01	10715	18-1	2300	Mon	Still transmitting on this freq. Off at 2304 UTC	AM/RDFT	(DSch)
HM01	10715	20-1	2200	Wed	36555 86619 17855 73045 83217 04111	AM/RDFT	(Dan)
HM01	10715	22-1	2200	Fri	36557 23211 17857 73047 02431 04113	AM/RDFT	(Dan)
HM01	10715	25-1	2200	Mon	36551 86614 17851 54700 83212 86704 Back to old msg, except 4th group	AM/RDFT	(Dan)
HM01	10715	27-1	2200	Wed	36552 86616 17852 54702 83214 86706	AM/RDFT	(Dan)
HM01	10715	29-1	2200	Fri	36553 86617 17853 54703 83215 86707	AM/RDFT	(Dan)
HM01	10715	31-1	2200	Sun	36552 86616 17852 54702 83214 86706	AM/RDFT	(Dan)
HM01	11430	21-1	1659	Thu	36556 23211 17856 73045 83218 04112	AM/RDFT	(DSch)
HM01	11435	1-1	1601	Fri	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11435	2-1	1606	Sat	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11435	3-1	1630	Sun	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11435	4-1	1600	Mon	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11435	5-1	2018	Tue	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11435	6-1	1607	Wed	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11435	7-1	1557	Thu	36551 86614 27852 07036 83212 86704	AM/RDFT	(DSch)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
HM01	11435	8-1	1604	Fri	36551 86615 17851 50641 83214 86705	AM/RDFT	(DSch)
HM01	11435	9-1	1659	Sat	36552 86616 17852 50642 83214 86706	AM/RDFT	(DSch)
HM01	11435	10-1	1611	Sun	36552 86617 17853 50643 83215 86707	AM/RDFT	(DSch)
HM01	11435	11-1	1601	Mon	36554 86618 17854 50644 83216 06711	AM/RDFT	(DSch)
HM01	11435	13-1	1602	Wed	36556 40001 17856 50646 83218 06712 Signal still bad	AM/RDFT	(DSch)
HM01	11435	14-1	1602	Thu	Late start. 36557 40001 17857 50647 01531 06713	AM/RDFT	(DSch)
HM01	11435	15-1	1588	Fri	36551 86615 17851 73041 83213 86705	AM/RDFT	(DSch)
HM01	11435	16-1	1628	Sat	36552 86616 17852 73042 83214 86706	AM/RDFT	(DSch)
HM01	11435	17-1	1603	Sun	36553 86617 17853 73043 83215 86707	AM/RDFT	(DSch)
HM01	11435	18-1	1607	Mon	36553 86617 17853 73043 83215 86707	AM/RDFT	(DSch)
HM01	11435	19-1	1556	Tue	36553 86617 17853 73043 83215 86707	AM/RDFT	(DSch)
HM01	11435	20-1	1603	Wed	36555 86619 17855 73045 83217 04111	AM/RDFT	(DSch)
HM01	11435	21-1	1610	Thu	36556 23211 17856 73045 83218 04112	AM/RDFT	(DSch)
HM01	11435	21-1	1634	Thu	36557 23211 17857 73047 02431 04113	AM/RDFT	(DSch)
HM01	11435	23-1	1558	Sat	36558 23212 18481 50071 02431 04114	AM/RDFT	(DSch)
HM01	11435	24-1	1628	Sun	36559 23213 18481 50071 02432 04115	AM/RDFT	(DSch)
HM01	11435	25-1	1620	Mon	Very late start at 1620z: 36559 23213 18481 50071 02432 04115 No break, goes into second half of sked at 1627z	AM/RDFT	(DSch)
HM01	11435	26-1	1557	Tue	YL/SS singing -My Country Tis Of Thee etc- at 1557z. At 1607z: 36551 86615 17851 54701 83213 86705. Same groups as 08-01 except the 4th group	AM/RDFT	(DSch)
HM01	11435	27-1	1553	Wed	36551 86615 17851 54701 83213 86705. Same groups as 08-01 except the 4th group. At 1557z: new groups 36552 86616 17852 54702 83214 86706	AM/RDFT	(DSch)
HM01	11435	28-1	1606	Thu	36552 86616 17852 54702 83214 86706	AM/RDFT	(DSch)
HM01	11435	29-1	1605	Fri	36553 86617 17853 54703 83215 86707	AM/RDFT	(DSch)
HM01	11435	30-1	1607	Sat	36552 86616 17852 54702 83214 86706 Note: repeat of 28-01 msgs	AM/RDFT	(DSch)
HM01	11435	31-1	1557	Sun	36552 86616 17852 54702 83214 86706 Note: repeat of 28-01 msgs	AM/RDFT	(DSch)
HM01	11530	2-1	1708	Sat	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11530	4-1	1700	Mon	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11530	8-1	1730	Fri	36551 86615 17851 50641 83214 86705	AM/RDFT	(DSch)
HM01	11530	11-1	1708	Mon	36554 86618 17854 50644 83216 06711	AM/RDFT	(DSch)
HM01	11530	12-1	1709	Tue	Starts but signal cutting in and out	AM/RDFT	(DSch)
HM01	11530	20-1	1704	Wed	36555 86619 17855 73045 83217 04111	AM/RDFT	(DSch)
HM01	11530	30-1	1706	Sat	36552 86616 17852 54702 83214 86706 Note: repeat of 28-01 msgs	AM/RDFT	(DSch)
HM01	11635	1-1	2107	Fri	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11635	4-1	2100	Mon	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11635	6-1	1804	Wed	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11635	6-1	2008	Wed	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	11635	8-1	1759	Fri	36551 86615 17851 50641 83214 86705	AM/RDFT	(DSch)
HM01	11635	12-1	1837	Tue	Still bad	AM/RDFT	(DSch)
HM01	11635	13-1	1729	Wed	36556 40001 17856 50646 83218 06712	AM/RDFT	(DSch)
HM01	11635	13-1	2107	Wed	36556 40001 17856 50646 83218 06712 Signal bad then starts at 5th callup group.	AM/RDFT	(DSch)
HM01	11635	16-1	1800	Sat	36552 86616 17852 73042 83214 86706	AM/RDFT	(DSch)
HM01	11635	18-1	2006	Mon	36553 86617 17853 73043 83215 86707. Wrong freq. Switches to 10715 kHz at 2217 UTC	AM/RDFT	(DSch)
HM01	11635	18-1	2127	Mon	36553 86617 17853 73043 83215 86707	AM/RDFT	(DSch)
HM01	11635	21-1	2058	Thu	36557 23211 17857 73047 02431 04113	AM/RDFT	(BW3/DSch)
HM01	11635	27-1	2059	Wed	36552 86616 17852 54702 83214 86706	AM/RDFT	(DSch)
HM01	11635	29-1	1759	Fri	36553 86617 17853 54703 83215 86707	AM/RDFT	(DSch)
HM01	11635	30-1	0759	Sat	36553 86617 17853 54703 83215 86707	AM/RDFT	(AB)
HM01	12180	29-1	1028	Fri	voice SS YL with Numbers into RDFT data	AM/RDFT	(PPA)
HM01	16180	2-1	2200	Sat	36551 86614 17851 07036 83212 86704	AM/RDFT	(Dan)
HM01	16180	5-1	2317	Tue	36551 86614 17851 07036 83212 86704	AM/RDFT	(DSch)
HM01	16180	7-1	2100	Thu	36551 86614 17851 07036 83212 86704	AM/RDFT	(Dan)
HM01	16180	12-1	2128	Tue	36555 86619 17855 50645 83217 06711	AM/RDFT	(DSch)
HM01	16180	14-1	2059	Thu	36551 86614 17851 73040 83212 86704	AM/RDFT	(DSch)
HM01	16180	15-1	2100	Fri	36551 86615 17851 73041 83213 86705	AM/RDFT	(DSch)
HM01	16180	16-1	2057	Sat	36552 86616 17852 73042 83214 86706	AM/RDFT	(DSch)
HM01	16180	19-1	2051	Tue	36554 86618 17854 73044 83216 04111	AM/RDFT	(DSch)
HM01	16180	26-1	2100	Tue	36551 86615 17851 54701 83213 86705	AM/RDFT	(Dan)
HM01	16180	26-1	2105	Tue	36551 86615 17851 54701 83213 86705. Same groups as 08-01 except the 4th group	AM/RDFT	(DSch)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
HM01	17480	5-1	2200	Tue	36551 86614 17851 07036 83212 86704	AM/RDFT	(Dan)
HM01	17480	12-1	2200	Tue	36555 86619 17855 50645 83217 06711	AM/RDFT	(Dan)
HM01	17480	14-1	2158	Thu	36551 86614 17851 73040 83212 86704	AM/RDFT	(DSch)
HM01	17480	14-1	2200	Thu	36551 86614 17851 73040 83212 86704 Back to old msg except 4th group	AM/RDFT	(Dan)
HM01	17480	16-1	2228	Sat	36552 86616 17852 73042 83214 86706	AM/RDFT	(DSch)
HM01	17480	19-1	2200	Tue	36554 86618 17854 73044 83216 04111	AM/RDFT	(Dan)
HM01	17480	21-1	2200	Thu	36556 23211 17856 73046 83218 04112	AM/RDFT	(Dan)
HM01	17480	26-1	2205	Tue	36551 86615 17851 54701 83213 86705. Same groups as 08-01 except the 4th group	AM/RDFT	(DSch)
HM01	17480	28-1	2200	Thu	36552 86616 17852 54702 83214 86706	AM/RDFT	(Dan)
HM01	17480	30-1	2200	Sat	36553 86617 17853 54703 83215 86707	AM/RDFT	(Dan)
M01	3205	4-1	2016	Mon	375 691 54 = = 35322 0.807 17033 59614 .3490 ... (Copy too difficult).	MCW	(MPJ)
M01	4490	5-1	2000	Tue	197 281 30 = = 85389 45640 53249 75349 22979 ... 58632 04113 73934 91933 01195 = = 281 30 000	CW	(MPJ)
M01	4490	7-1	2000	Thu	197 707 30 = = 45010 35684 34344 ... 40243 86205 17385 = = 707 30 000	CW	(MPJ/AB)
M01	4490	12-1	2000	Tue	197 356 30 = = 14665 99407 99662 89652 82573 ...? 61230 7386...	CW	(MPJ)
M01	4490	21-1	2000	Thu	197 072 30 = = 67832 63341 34030 55166 46481 ... 79213 75811 18217 18217 45346 = = 072 30 000	CW	(MPJ)
M01	4636	12-1	1820	Tue	186 569 15 11090 ...	CW	(PPA)
M01	5320	7-1	1800	Thu	197 234 30 = = 72417 91524 29290 ... 47088 04160 01162 = = 234 30 000	CW	(AB/MPJ)
M01	5320	21-1	1800	Thu	197 38 83073 81183 14239 47072 85223 ... 24103 28763 49833 (see N&O 220)	CW	(MPJ/PPA)
M01	5320	28-1	1800	Thu	197 718 718 30 30 = = 54512 54512 ...	CW	(PPA)
M01	5465	3-1	0700	Sun	197 178 178 30 30 = = 17593 17593 30413 30413 93601 93601 ... 56055 56055 34817 34817 40953 40953 = = 178 178 30 30 000	CW	(AB)
M01	5810	2-1	1500	Sat	197 461 30 = = 98081 61061 .3839 70114 92452 ... 80997 25207 82472 93492 12791 = = 461 30 000	CW	(AB/MPJ)
M01	5810	9-1	1500	Sat	197 (R) 891 30 = = 69980 81631 74895 ... 77918 80237 85422 = = 891 30 000	CW	(AB/MPJ)
M01	5810	23-1	1500	Sat	197 (R) 157 846 846 30 846 30 30 = = 35796 35796 67483 67483 20502 20502 00266 ... 83344 35562 35562 84935 84935 = = 846 846 30 30 000	MCW	(AB)
M01	5810	23-1	1501	Sat	197 197 197 846 30 = = 696 34796 67483 ... = 846 30 000	CW	(F5JBR)
M01b	2485	21-1	2042	Thu	Carrier only on 2485, nothing on 3160 kHz	CW	(MPJ)
M01b	2655	15-1	2002	Fri	866 505 38 = = 64757 21165 78189 72688 73296 ... 07884 05722 88742 41803 20902 = = 505 38 000 //3195 kHz	MCW	(MPJ)
M01b	2655	22-1	2002	Fri	866 ... 38 = = 64757 .1.65 78289 72688 70.... Dreadful copy.	MCW	(MPJ)
M01b	3195	8-1	2002	Fri	866 .91 54 = = 35321 0.87. 17.3. unreadable	MCW	(MPJ)
M01b	3195	15-1	2002	Fri	866 505 38 = = 64757 21165 78189 72688 73296 ... 07884 05722 88742 41803 20902 = = 505 38 000 //2655 kHz	MCW	(MPJ)
M01c	2287	24-1	1755	Sun	873 873 873 393 27 000	CW	(F5JBR)
M01c	2317	21-1	1809	Thu	257 257 284 66 111 333 01 333 04 111 000	CW	(F5JBR)
M01c	2656	20-1	0505	Wed	132 132 132 19251 19251. 132 132 132 18319 18319	CW	(Benka)
M01c	2656	20-1	0514	Wed	4001 132 132 132 132 111 000	CW	(Benka)
M01c	9067	17-1	1317	Sun	273 273 273 13257 13257	CW	(Danix)
M01c	9067	17-1	1324	Sun	273 273 273 16677 16677	CW	(Danix)
M01c	9067	17-1	1329	Sun	999 784 33 = 784 33 = 83428 _1727 33373 30953 ... 48992 45648 34061 = 784 33 = 784 33 = 273 273 273 000 273 273 273 000 273 273 273 000	CW	(Danix/F5JBR)
M01c	9151	5-1	0719	Tue	728 728 728 45890 45890 (R) ended abruptly	CW	(Danix)
M01c	9151	5-1	0723	Tue	728 728 728 47237 47237 (R) ended abruptly	CW	(Danix)
M01c	9151	5-1	0727	Tue	333	CW	(Danix)
M01c	10651	5-1	0711	Tue	297 297 297 37930 37930 (R) ended abruptly	CW	(Danix)
M01c	10651	5-1	0715	Tue	297 297 297 38651 38651 (R) ended abruptly	CW	(Danix)
M03	4505	11-1	1320	Mon	543/00 = = 000	CW	(AB)
M03	4505	13-1	1320	Wed	543/00 = = 000	CW	(MPJ)
M05	8073	8-1	1139	Fri	V BNGC (x3) DE XSV85 (x2) CY HR MSG GA PSE CY NR 0019 CK 136 35 0108 1550 = TTD 3U6 3AN 3U7 TAU 773 TA7 ...	CW	(JPL-HK)
M05	8073	13-1	0004	Wed	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0028 CK 079 35 0113 0710 = TA3 3U4 ...	CW	(JPL-HK)
M05	8073	22-1	0007	Fri	V BNGC (x3) DE XSV85 (x2) HR 7GS GA PSE CY NR 0048 CK 110 35 0122 0715 = TUU 3U4 3A4 TAU 773 TA7 773 357 ...	CW	(JPL-HK)
M05	8073	27-1	1138	Wed	V BNGC (x3) DE XSV85 (x2) ... = TU7 3U6 3AN 3U7 TAU 773 354 367 4T3 NN3 ...	CW	(JPL-HK)
M08a	7554	5-1	2018	Tue	In tfc	CW	(DSch)
M08a	7554	7-1	2009	Thu	In tfc	CW	(DSch)
M08a	7554	14-1	2001	Thu	No callups, in tfc	CW	(DSch)

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M08a	7554	15-1	2000	Fri	UATAA WUDUN RIIRA	CW	(DSch)
M08a	8009	4-1	2319	Mon	In tfc	CW	(DSch)
M08a	8009	11-1	2259	Mon	In tfc	CW	(DSch)
M08a	8009	18-1	2259	Mon	RUWTN GWDDN TGRWA into tfc	CW	(DSch)
M08a	8096	5-1	1414	Tue	i.p.	CW	(DSch)
M08a	8135	14-1	2300	Thu	No callups, in tfc	CW	(DSch)
M08a	8135	15-1	2256	Fri	AWNRRN NGWTN DNTNA	CW	(DSch)
M08a	8135	21-1	2256	Thu	In tfc	CW	(DSch)
M08a	8135	21-1	2259	Thu	In tfc	CW	(DSch)
M12	4457	25-1	0530	Mon	417 0	CW	(HFD)
M12	4457	25-1	0550	Mon	417 0	CW	(HFD)
M12	4461	13-1	2220	Wed	340 0	CW	(HFD)
M12	5284	14-1	0730	Thu	277 0	CW	(HFD)
M12	5361	6-1	2200	Wed	340 340 340 000	CW	(AB)
M12	5361	13-1	2200	Wed	340 0	CW	(HFD)
M12	5784	14-1	0750	Thu	277 0	CW	(HFD)
M12	5788	13-1	1940	Wed	463 1 2457 145 02246 53743 02152 57248 89680 ... 68926 51941 16881 61618 42705 000	CW	(MPJ/HFD)
M12	5788	20-1	1940	Wed	463 1 5974 142 91876 46579 77338 91192 38298 ... 98113 69567 48845 61101 79490 000	CW	(MPJ)
M12	5788	25-1	1840	Mon	463 1 3859 149 75474 58863 56996 81710 41.79 ... 83732 22255 91458 54007 63329 000	CW	(MPJ)
M12	5788	27-1	1940	Wed	463 1 6196 142 85994 31034 73295 51601 17929 ... 30192 78346 83061 10329 09624 000	CW	(MPJ)
M12	5839	9-1	0600	Sat	842 0	CW	(HFD)
M12	5892	16-1	1350	Sat	678 1	CW	(HFD)
M12	5892	30-1	1350	Sat	678 1 510 161 78623 83122 66806 28190 48968 ... 01415 92885 42269 31136 99922 000	CW	(MPJ)
M12	6792	7-1	1330	Thu	678 678 678 000	CW	(MPJ)
M12	6792	9-1	1330	Sat	678 678 678 000	CW	(AB/MPJ)
M12	6792	16-1	1330	Sat	678 1	CW	(HFD)
M12	6792	21-1	1330	Thu	678 678 678 000	CW	(AB)
M12	6792	23-1	1330	Sat	678 678 678 000	CW	(AB)
M12	6802	13-1	1920	Wed	463 1 2457 145 02246 53743 02152 57248 89680 ... 68926 51941 16881 61618 42705 000	CW	(MPJ)
M12	6802	13-1	1920	Wed	463 1	CW	(HFD)
M12	6802	25-1	1820	Mon	463 1 3859 149 75474 58863 56996 81710 41.79 ... 83732 22255 91458 54007 63329 000	CW	(MPJ)
M12	6802	27-1	1920	Wed	463 1 6196 142 85994 31034 73295 51601 17929 ... 30192 78346 83061 10329 09624 000	CW	(MPJ)
M12	6904	13-1	1840	Wed	257 1 1896 143 10532 00111 06243 91872 27961 ... 54117 46404 88554 22026 63115 000	CW	(MPJ/HFD)
M12	6904	20-1	1840	Wed	257 1 8722 149 38414 22803 98925 59137 97072 ... 47649 64990 58644 59545 46314 000	CW	(MPJ)
M12	6904	27-1	1840	Wed	257 1 7699 132 80414 99743 61102 65851 39514 ... 39136 98408 50650 76358 59999 000	CW	(MPJ)
M12	7438	16-1	0620	Sat	842 842 842 000	CW	(AB)
M12	7438	30-1	0620	Sat	842 842 842 000	CW	(AB)
M12	7439	9-1	0620	Sat	842 0	CW	(HFD)
M12	7692	7-1	1310	Thu	678 678 678 000	CW	(MPJ)
M12	7692	9-1	1310	Sat	678 678 678 000	CW	(AB/MPJ)
M12	7692	16-1	1310	Sat	678 1	CW	(HFD)
M12	7692	21-1	1310	Thu	678 678 678 000	CW	(AB)
M12	7931	13-1	1820	Wed	257 1 1896 143 10532 00111 06243 91872 27961 ... 54117 46404 88554 22026 63115 000	CW	(MPJ/HFD)
M12	7931	20-1	1820	Wed	257 1 8722 149 38414 22803 98925 59137 97072 ... 47649 64990 58644 59545 46314 000	CW	(MPJ)
M12	7931	27-1	1820	Wed	257 1 7699 132 80414 99743 61102 65851 39514 ... 39136 98408 50650 76358 59999 000	CW	(MPJ)
M12	8047	13-1	1900	Wed	463 1 2457 145 02246 53743 02152 57248 89680 ... 68926 51941 16881 61618 42705 000	CW	(MPJ/HFD)
M12	8047	20-1	1900	Wed	463 1 5974 142 91876 46579 77338 91192 38298 ... 98113 69567 48845 61101 79490 000	CW	(MPJ)
M12	8047	25-1	1800	Mon	463 1 3859 149 75474 58863 56996 81710 41.79 ... 83732 22255 91458 54007 63329 000	CW	(MPJ)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M12	8047	27-1	1900	Wed	463 1 6196 142 85994 31034 73295 51601 17929 ... 30192 78346 83061 10329 09624 000 000	CW	(MPJ)
M12	8116	14-1	1840	Thu	124 1	CW	(HFD)
M12	8116	19-1	2010	Tue	124 1	CW	(HFD)
M12	8116	26-1	2010	Tue	124 1 8652 105 51530 31575 07017 37034 51189 ... 88868 82303 74787 27707 05383 000	CW	(MPJ)
M12	8116	28-1	1840	Thu	124 1 9334 143 82458 ...	CW	(AB)
M12	9176	13-1	1800	Wed	257 1 1896 143 10532 00111 06243 91872 27961 ... 54117 46404 88554 22026 63115 000	CW	(MPJ/HFD/AB)
M12	9176	20-1	1800	Wed	257 1 8722 149 38414 22803 98925 59137 97072 ... 47649 64990 58644 59545 46314 000	CW	(MPJ)
M12	9176	27-1	1800	Wed	257 1 7699 132 80414 99743 61102 65851 39514 ... 39136 98408 50650 76358 59999 000	CW	(MPJ)
M12	9264	14-1	1820	Thu	124 1	CW	(HFD)
M12	9264	19-1	1950	Tue	124 1	CW	(HFD)
M12	9264	26-1	1950	Tue	124 1 8652 105 51530 31575 07017 37034 51189 ... 88868 82303 74787 27707 05383 000	CW	(MPJ)
M12	10343	14-1	1800	Thu	124 1	CW	(HFD)
M12	10343	19-1	1930	Tue	124 1	CW	(HFD)
M12	10711	14-1	1740	Thu	546 1	CW	(HFD)
M12	11491	14-1	1540	Thu	725 1 (R) 6971 120 33326 88736 31125 ... 38414 21455 65494 000 000	CW	(AB/HFD)
M12	11566	14-1	1720	Thu	546 0	CW	(HFD)
M12	12162	14-1	1700	Thu	546 1	CW	(HFD)
M12	12189	14-1	1520	Thu	725 1 (R) 6971 120 33326 88736 31125 ... 38414 21455 65494 000 000	CW	(AB/MPJ/HFD)
M12	12205	11-1	1100	Mon	973 1	CW	(HFD)
M12	12205	18-1	1100	Mon	973 1 (R) 7130 ...	CW	(AB)
M12	12205	25-1	1100	Mon	973 1 ...	CW	(AB)
M12	13369	3-1	1010	Sun	369 369 369 000	CW	(AB)
M12	13369	7-1	1010	Thu	369 369 369 000	CW	(AB/HFD)
M12	13369	14-1	1010	Thu	369 1 (R) 5953 67 00867 88253 14340 ... 65467 74070 79517 000 000	CW	(AB)
M12	13386	14-1	1500	Thu	725 1 (R) 6971 120 33326 88736 31125 ... 38414 21455 65494 000 000	CW	(AB/HFD)
M12	13559	11-1	1120	Mon	973 1	CW	(HFD)
M12	14669	3-1	1030	Sun	369 369 369 000	CW	(AB)
M12	14669	7-1	1030	Thu	369 369 369 000	CW	(AB/HFD)
M12	14669	21-1	1030	Thu	369 369 369 000	CW	(AB)
M12	14687	8-1	1520	Fri	963 963 963 000	CW	(HFD/Danix)
M12	14687	22-1	1520	Fri	963 963 963 000	CW	(AB)
M12	14687	29-1	1520	Fri	963 963 963 000	CW	(AB/MPJ)
M12	14728	11-1	1140	Mon	973 1	CW	(HFD)
M12	15987	8-1	1500	Fri	963 963 963 000	CW	(HFD/Danix)
M12	15987	22-1	1500	Fri	963 963 963 000	CW	(AB)
M12	15987	29-1	1500	Fri	963 963 963 000	CW	(MPJ)
M12	16324	13-1	0710	Wed	314 314 314 000	CW	(AB)
M12	16324	20-1	0710	Wed	314 314 314 000 (at 0708z I copied the end of some opchat. Probably not related. It ended a few secs before M12 started: QSA1 QSA1 U K II T T RNR 216 K EL II SK GB. The station was weaker than M12.	CW	(AB)
M12	18124	13-1	0730	Wed	314 314 314 000	CW	(AB)
M12	18124	20-1	0730	Wed	314 314 314 000	CW	(AB)
M14	4636	12-1	1820	Tue	186 1 569 15 11090 38276 68675 11652 79183 39910 67182 55713 70193 57126 50192 16732 49003 55176 28196 569 15 00000. Groups/preamble twice.	MCW	(MPJ)
M14	4636	26-1	1820	Tue	186 569 15 11090 38276 68675 11652 79183 ... 16732 16732 49003 55176 28196 569 15 00000	CW	(MPJ/Danix)
M14	4761	13-1	1920	Wed	748 569 15 11090 38276 68675 11652 79183 ... 50192 16732 49003 55176 28196 569 15 00000. Sent 2E8 at 1917 & 1919 UTC	MCW	(MPJ)
M14	4761	16-1	1922	Sat	748 569 15 11090 38276 68675 ... 49003 55176 28196 569 15 00000	MCW	(F5JBR)
M14	4761	27-1	1920	Wed	748 569 15 11090 38276 68675 ... 49003 55176 28196 56 15 00000	MCW	(MPJ)
M14	4975	1-1	1800	Fri	382 382 382 00000	CW	(AB)
M14	4975	15-1	1800	Fri	382 382 382 00000	CW	(MPJ)
M14	5374	15-1	1700	Fri	382 382 382 00000	CW	(MPJ)
M14	5430	2-1	0800	Sat	171 (R) 279 15 98712 56767 43244 99934 12213 48221 ...	CW	(AB/F5JBR)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M14	5430	9-1	0800	Sat	171 (R) 272 15 89205 78127 55945 77806 11321 16210 52217 69205 15324 53746 76089 76201 62189 67220 16014 272 15 00000	CW	(AB)
M14	5430	16-1	0800	Sat	171 279 15 98712 56767 43244 99934 12213 48221 66655 77455 43214 90989 34567 05058 71236 98123 63810 65567 279 15 (no zero's at the end)	CW	(AB)
M14	5430	30-1	0800	Sat	M14 with errors 171 (R) 722 72 115 15 89205 89205 88127 78127 55945 55945 77806 ... 67220 67220 17014 17014 272 272 15 15 00000	CW	(AB)
M14	5430	30-1	0806	Sat	M14 messing up: 0571 78870 68857 63530 19721 90992 51797 37098 49525 14057 64208 19778 15629 26714 66895 5245U	CW	(AB)
M14	5430	30-1	0811	Sat	M14 messing up: :----- 2 21969 14915 26141 2611	CW	(AB)
M14	5560	9-1	0900	Sat	171 (R) 272 15 89205 78127 55945 77806 11321 16210 52217 69205 15324 53746 76089 76201 62189 67220 16014 272 15 00000	CW	(AB)
M14	5947	24-1	0600	Sun	382 0	CW	(HFD)
M14	6767	24-1	0700	Sun	382 0	CW	(HFD)
M14	17458	10-1	0930	Sun	617 617 617 00000	CW	(Danix)
M21	3256	27-1	1535	Wed	Russian Air Defense =991835??0?????	CW	(JPL-Sib)
M21	4951.5	7-1	0426	Thu	Russian Air Defence =990826??0????? =990827??0????? =990828??0????? =990829??0?????	CW	(F5JBR)
M21	4951.5	20-1	1931	Wed	Russian air defence =992231?t?????	CW	(PPA)
M21	5980.5	6-1	0655	Wed	Russian Air Defence =990954??8????? =990955??8????? =990956??8????? =990957??8?????	CW	(F5JBR)
M22	2680	2-1	1705	Sat	4XZ Calling and Messages	CW	(F5JBR)
M22	2680	7-1	1935	Thu	4XZ 5L coded messages	CW	(PPA)
M22	8726	8-1	1749	Fri	4XZ Calling and Messages	CW	(F5JBR)
M22	8726	11-1	1719	Mon	4XZ: Navy Haifa 5L messages	CW	(PPA)
M22	10341	2-1	1324	Sat	4XZ Calling and Messages	CW	(F5JBR)
M22	17325	2-1	0921	Sat	4XZ Calling and Messages	CW	(F5JBR)
M22	21620	2-1	1000	Sat	4XZ Calling and Messages	CW	(F5JBR)
M32	2558	5-1	1830	Tue	XXX 2LT8 79412 CEJLON 1633 1207 2201 LESNIOIJ 0620 K	CW	(F5JBR)
M32	3160	29-1	1741	Fri	KLIR DE KCND K. OKMG DE YEOX K. OKMG DE YEOX VVVV VVV K. OKMG DE YEOX VVV K. 7J3C 7J3C DE YE0X	CW	(JPL-Sib)
M32	3354	9-1	1431	Sat	Ng8v DE P19Y K. R K. BW6D DE P19Y K. R K. DROV DE P19Y K	CW	(JPL-Sib)
M32	3392	27-1	1806	Wed	XXX XXX VZFY VZFY 70239 16981 DUJMOPRUS 0175 4753 70239 16981 DUJMOPRUS 0175 4753 K	CW	(JPL-Sib)
M32	3392	27-1	1809	Wed	XXX XXX VZFY VZFY 60992 28004 D\UJMOPRUS 0475 4753 800 60992 28004 DUJMOPRUS 0475 4753	CW	(JPL-Sib)
M32	3682	29-1	1750	Fri	YEOX DE 52YM	CW	(JPL-Sib)
M32	3720	10-1	0830	Sun	SMPR SMPR SMPR DE MFWU MFWU QTC1 ...	CW	(comp)
M32	4862	14-1	0746	Thu	XXX WEGI 44155 MUSSOROK 5957 0484 K	CW	(F5JBR)
M32	4879	14-1	0955	Thu	XXX VUOZ 40694 LIPAK 1520 1796 K	CW	(F5JBR)
M32	4962.5	10-1	2312	Sun	2Y8Q DE IFGI K. QSA 2 QSA ? K. R K. 9EMX DE IFGI K	CW	(JPL-HK)
M32	5110	9-1	2202	Sat	AVN2 DE IT9A K. R K	CW	(JPL-Sib)
M32	5267	16-1	1111	Sat	DE OLFW QTC K. OLFW 529 23 16 1400 529 = 426 = SLOGA FYWSB LAONN ...	CW	(JPL-HK)
M32	5387	4-1	0954	Mon	XXX WEGI 69395 ODURENXE 0388 4670 K	CW	(F5JBR)
M32	5418	21-1	1332	Thu	XXX XXX WEGI WEGI 56439 POGLOTITELX 2384 7657 K	CW	(JPL-Sib)
M32	5596	27-1	1141	Wed	I3QS I3QS I2QS QTC AR I3QS 774 27 27 1940 774 = 247 = AFS\OS T\U\OC\O A\O\OPJ VEPBT ...	CW	(JPL-Sib)
M32	6220	8-1	1544	Fri	DOQW DE TNH N. K. DIY7 DE TNH N. K. R K. FEZI DE TNH N. K. R K. Z86H DE TNH N. K. R K	CW	(JPL-Sib)
M32	6432	21-1	0941	Thu	XXX VUOZ 04976 77GRIDIF 8022 7322 K. XXX VUOZ 17021 UGLERODNYJ 1187 2569 K	CW	(F5JBR)
M32	6686.5	20-1	1230	Wed	XXX 9TIC 06362 NENADOBNYJ 7594 2927 K	CW	(F5JBR)
M32	6732	29-1	0918	Fri	3RMZ DE CJK1 QSA? K. CJK1 DE 3FAG QSA2 QSA? K. BA3Y DE CJK1 QSA? K. YJE1 DE CJK1 QSA? K. 4E6M DE CJK1 QSA? K. VVV DE 4E6M QSA2 QSA? K	CW	(JPL-Sib)
M32	6816	28-1	0207	Thu	XXX XXX S9DQ S9DQ 354 354 QXS K	CW	(JPL-Sib)
M32	6834	25-1	0818	Mon	XXX GSXL AMFIBIA 01 1310 355 0900 1108 K	CW	(F5JBR)
M32	6881	21-1	0942	Thu	XXX 1QRF 10587 SROKOGIK 8350 4379 K. XXX SHEU 13055 23108 SMYWKA 2641 9245 K	CW	(F5JBR)
M32	6881	22-1	1319	Fri	XXX WEGI 11582 OBOLOHARÍ 3620 4295 K	CW	(Benka)
M32	6881	22-1	1323	Fri	XXX 1QRF 06683 TUKOWEK 8968 2185 K	CW	(Benka)
M32	6881	22-1	1326	Fri	XXX SHEU 99969 36179 WTUZOREV 8516 7645 K	CW	(Benka)
M32	7882	25-1	1211	Mon	EYS66 EYS66 QSA? K. VVV RTS62 DE EYA31 QSA2 QSA ? K. EYA31 QSA4 K. OK K. R K	CW	(JPL-Sib)
M32	8118	28-1	0850	Thu	LDBO LDBO QTC 245 32 28 1140 245 566 = PPPPP EMP'HD IPUFT YLBNE (Cont'd)	CW	(JPL-Sib)
M32	8408	28-1	0844	Thu	O7JX O7JX 206 34 28 1140 206 = 440 = MMMMM H\HMRO P\OH\HS UIHB\O (Cont'd)	CW	(JPL-Sib)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M32	10553	14-1	0948	Thu	XXX WEGI 52343 SLOKAEK 4691 4950 K	CW	(F5JBR)
M32a	5830	17-1	0700	Sun	XXX LR43 TEHNIOESKAA PROWERKA 592 K (RMW36, RMW44, RMW46, RKL91 acknowledge receipt XXX) //7523 kHz	CW	(F5JBR)
M32a	7160	20-1	0900	Wed	RMW32 wkg RGR49, RGR87, RGR88, RGR89, RGR90, RGR91, RFH46, RGR94, RGR95, RDQ81, RGR96, RGR97, RGR98, RGR93, RGR92	CW	(F5JBR)
M32a	7160	20-1	1047	Wed	RFN72 RFN75 ZTC AR. RMW32 07 32 20 1334 = 999 = MF+XU RANKU LWAYC VZYPI XBYDL OSKAY YWHKU WSXTM à FWPQB 124 RPT AL ZLN AR	CW	(F5JBR)
M32a	7523	8-1	0700	Fri	XXX LR43 TEHNIOESKAA PROWERKA 540 K10 K (RMW36, RMW44, RMW46, RKL91 acknowledge receipt)	CW	(F5JBR)
M32a	7523	8-1	0800	Fri	XXX LR43 TEHNIOESKAA PROWERKA 592 K (RMW36, RMW44, RMW46, RKL91 acknowledge receipt)	CW	(F5JBR)
M32a	7523	17-1	0700	Sun	XXX LR43 TEHNIOESKAA PROWERKA 592 K (RMW36, RMW44, RMW46, RKL91 acknowledge receipt XXX) //5830 kHz	CW	(F5JBR)
M32a	8120	28-1	0851	Thu	RAA OK AS 2 K. RMP DE RAA K. AR RAA QYT 4 QMO K	CW	(JPL-Sib)
M32a	8460	4-1	1001	Mon	XXX REO 07181 ZABYWANIE 8161 6994 K	CW	(F5JBR)
M32a	8460	4-1	1006	Mon	XXX REO 97357 DUCHOFORD 0554 4576 K	CW	(F5JBR)
M32a	8460	4-1	1324	Mon	XXX REO 61977 GOFROKIPR 5468 9444 K	CW	(F5JBR)
M32a	8460	7-1	1600	Thu	XXX REO 70151 LAZOSKAL 2420 5437	CW	(F5JBR)
M32a	8460	11-1	0854	Mon	XXX REO 28997 KALIFORNIJ 1713 8845 K	CW	(F4JBR)
M32a	8460	11-1	1300	Mon	XXX REO 12033 WKASOPLAN 5098 3535 K	CW	(F4JBR)
M32a	8460	14-1	0754	Thu	XXX REO 16779 ANANAS 3892 5162 K	CW	(F5JBR)
M32a	8460	14-1	0807	Thu	XXX REO 28720 LGUNODOT 7014 9006 K	CW	(F5JBR)
M32a	8460	25-1	1244	Mon	RMP Russian navy Kalilingrad: XXX REO 32232 ARABOGEN 4179 0725 K	CW	(F5JBR)
M32a	8460	25-1	1256	Mon	RMP Russian navy Kalilingrad: XXX RJD69 80554 DOLOCHLAK 4203 8885	CW	(F5JBR)
M32a	9145	11-1	1718	Mon	i.p. = SML FM RAA = 22222 00892 57015 23334 99189 14880 ...	CW	(AB)
M32a	10543	25-1	1201	Mon	i.p. 45912 13031 04347 K. RCV OK QRU K	CW	(JPL-Sib)
M32c	4179	9-1	1441	Sat	i.p. 99900 08120 65596 92995 20000 11274 21283 71011 80001 = REA4 K	CW	(JPL-Sib)
M32c	5135	27-1	1814	Wed	REA9 GN QSA ? K. RPD2 DE REA9 QSA 4 NIL GB SK	CW	(JPL-Sib)
M32c	7314	15-1	0735	Fri	XXX 1QRF 38641 FOTINIT 9013 0189 TREZUB 3059 4242 K	CW	(F5JBR)
M32c	8112	26-1	0600	Tue	W-markers Tu-95MS Bear H net	CW	(Tom)
M32c	8112	26-1	0605	Tue	NXY8 DE IWW4 Tu-95MS Bear H net	CW	(Tom)
M32c	8112	26-1	1120	Tue	W-marker Bears Net	CW	(MPJ)
M32c	8112	26-1	1200	Tue	W-marker Bears Net	CW	(MPJ)
M32c	8112	27-1	0422	Wed	W-marker	CW	(JPL-Sib)
M32c	8112	27-1	0700	Wed	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8112	28-1	1140	Thu	W-markers Tu-95MS Bear H net	CW	(Tom)
M41	2006.5	4-1	1516	Mon	5EQB 5EQB 5EQB AR	CW	(F5JBR)
M41	2786.5	10-1	1748	Sun	722 194 95119979179128722701940 RPT 722 194 95119979179128722701940 K	CW	(F5JBR)
M41	2786.5	14-1	1614	Thu	WMPA 722194 95039 98 9693151 7000 18 05 722194 95039 98 9693151 7000 18 05 K	CW	(F5JBR)
M41	2786.5	15-1	1530	Fri	VAMG msg ends with 722194 95039 98 3221161 73110 17 26	CW	(F5JBR)
M41	2786.5	15-1	1540	Fri	VAMG 272 52 15 1745 272 = ZDH = AAAAA RQDXZ VUIMO BOSTI UHZFO OEWEI ... AR	CW	(F5JBR)
M41	4000	4-1	0530	Mon	5EQB 5EQB 5EQB AR	CW	(F5JBR)
M42	6821	28-1	0900	Thu	Russian diplo/intel. Ends 0904z. Experimental mode, Last heard in October 2014.	PSK intro / MFSK-16	(Danix)
M42	7591	15-1	1327	Fri	W7AD Wkg TI4O	CW	(F5JBR)
M42	7638	28-1	0824	Thu	Russian diplo/intel. Ends 0827z. Experimental mode, Last heard in October 2014.	PSK intro / MFSK-16	(Danix)
M42	7943	28-1	0831	Thu	Russian diplo/intel. Ends 0838z. Experimental mode, Last heard in October 2014.	PSK intro / MFSK-16	(Danix)
M42	8062	28-1	0842	Thu	Russian diplo/intel. Ends 0848z. Experimental mode, Last heard in October 2014.	PSK intro / MFSK-16	(Danix)
M42	8191	28-1	0850	Thu	Russian diplo/intel. Ends 0858z. Experimental mode, Last heard in October 2014.	PSK intro / MFSK-16	(Danix)
M42	10180	29-1	1250	Fri	NT9P de K4MT, QSA's tehn QLO10	T600	(AW2)
M42	13383	25-1	0922	Mon	Russian intel	CIS FTM-4, MFSK-4 150Bd 4000Hz	(AAI)
M42	13383	25-1	0922	Mon	Russian diplo/intel. CIS-3000 PSK-8 flwd by MFSK-68(34+34) + BPSK 10Khz inside a concur- rent CIS FTM-4 150Bd 4000Hz	CIS-3000 PSK-8 3000Bd serial	(AAI)
M42	14380	24-1	1030	Sun	Message in FSK 100/500 and opschat in CW: RYX QTC 2	MCW	(F5JBR)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M42	15623	3-1	1040	Sun	RYQ (op chat in CW, messages in FSK) QRU NIL SK	FSK 75/500	(F5JBR)
M42	15623	22-1	0845	Fri	Russian intel	CIS FTM-4, MFSK-4 150Bd 4000Hz	(AAI)
M42	15623	26-1	0850	Tue	Russian intel	CIS FTM-4, MFSK-4 150Bd 4000Hz	(AAI)
M42	18060	26-1	0924	Tue	Russian diplo	CROWD-36	(PUK)
M42b	1777.5	21-1	1849	Thu	UWG2 de UUA4 QSA ? K. QSA 4 ZOR K (QX on 4020 kHz)	CW	(F5JBR)
M42b	1802	28-1	1536	Thu	Comms checks in CW and messages in FSK 50/500	FSK 50/500	(F5JBR)
M42b	2002	3-1	1541	Sun	CDAP wkg AIFH (op chat in CW, messages in FSK) QRU NIL SK	FSK 50/500	(F5JBR)
M42b	2002	8-1	1542	Fri	CDAP wkg AIFH (Msg in FSK, opchat in CW) QRU NIL SK	FSK 50/500	(F5JBR)
M42b	3838	6-1	0727	Wed	NLAT wkg VGKE	CW	(F5JBR)
M42b	4012	2-1	0716	Sat	NLW de VGC QSA NO QSY 80353 K	CW	(F5JBR)
M42b	4012	2-1	0722	Sat	NLW de VGC QSA NO QSY 80353 K	CW	(F5JBR)
M42b	4012	4-1	0716	Mon	VGTR wkg NLAT	CW	(F5JBR)
M42b	4012	11-1	0720	Mon	VGTR wkg NLAT	CW	(F5JBR)
M42b	4020	21-1	1859	Thu	UUA4 de UWG2 QSA ? K. QSA 4 ZOR K. Msg in FSK 50/500 and opschat in CW. (QX on 1777.5 kHz)	CW	(F5JBR)
M42b	4040	11-1	0846	Mon	Wkg outstation. (Msg in FSK, opchat in CW) QRU NIL SK	FSK 50/500	(F5JBR)
M42b	4461	7-1	0558	Thu	PZAK wkg PLXW (opschat in CW, msg in FSK)	FSK 50/500	(F5JBR)
M42b	4571	21-1	0707	Thu	AUTK de WKEX QLO 10 K	CW	(F5JBR)
M42b	4581	21-1	0700	Thu	AUTK de WKEX QLO 10 K	CW	(F5JBR)
M42b	4781	4-1	1350	Mon	TSE7 de UKNR QSY 23349 K	CW	(F5JBR)
M42b	4856	2-1	0625	Sat	QST wkg VBY (op chat in CW, messages in FSK) VBY is on 5068 kHz	FSK 50/500	(F5JBR)
M42b	5078	4-1	1344	Mon	TSE7 de UKNR QSY 76866 K	CW	(F5JBR)
M42b	5161	4-1	1320	Mon	GDVA wkg JXEN (op chat in CW, message in FSK)	FSK 50/500	(F5JBR)
M42b	6781	26-1	1417	Tue	M9XE wkg AJ7I. Comms checks in CW and messages in FSK 50/500	FSK 50/500	(F5JBR)
M42b	6817	11-1	0753	Mon	SK8I wkg G3WM (Msg in FSK, opchat in CW) QRU NIL SK	FSK 50/500	(F5JBR)
M42b	6837	11-1	0751	Mon	G3WM de SK8I QLO 20 K	CW	(F5JBR)
M42b	6905	24-1	1250	Sun	Wkg outstation. Message in FSK, Opschat in CW: QRU NIL SK	FSK 50/500	(FJBR)
M42b	6905	30-1	1245	Sat	5fg's with =50= seperator and opchat in CW cfm qru? k. ok esl3 k. bk bk qrv k. k. r 0181253 k. nil sk	Baudot 50/500	(Benka)
M42b	8060	16-1	1452	Sat	Msg in FSK, opchat in Morse: QRU NIL SK	FSK 50/500	(F5JBR)
M42b	10180	3-1	1228	Sun	K4MT wkg NT9P (op chat in CW, messages in FSK) QRU NIL SK	FSK 50/500	(F5JBR)
M42b	10955	25-1	1239	Mon	Russian diplo/intel. 5FGs with =100= separator	Baudot 50/500	(MCO)
M42b	11160	29-1	0825	Fri	Message in FSK 50/500, opchat in CW: QTC 1 RPT K. R (Switched to FSK) CFM NSE EE NAL QRU ? K. CFM NIL QRU U SK	FSK 50/500	(JPL-Sib)
M42c	4034	5-1	2000	Tue	Russian diplo/intel. Serial #46, Groups 422 - 68018 21580 12718 90984 71978 ... 01066	FSK 200/500	(Danix)
M42c	4570	2-1	1830	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB/MPJ/HFD)
M42c	4570	9-1	1830	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	4570	16-1	1830	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	4570	23-1	1830	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	5385	2-1	1820	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB/HFD)
M42c	5385	9-1	1820	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	5385	16-1	1820	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	5385	23-1	1820	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	6783	5-1	1950	Tue	Russian diplo/intel. Serial #46, Groups 422 - 68018 21580 12718 90984 71978 ... 01066	FSK 200/500	(Danix)
M42c	7507	1-1	1035	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	7507	4-1	1035	Mon	Russian diplo/intel. =7561 432878555955486112 ...)7041505344700000+++++186	FSK 200/500	(AB)
M42c	7507	5-1	1035	Tue	Russian diplo/intel. =8431 54377246658046696 ...)57655 00000+++++++151 (2 msgs)	FSK 200/500	(AB)
M42c	7507	6-1	1035	Wed	Russian diplo/intel. =8581 968050219847179123 ...)7651445642900000+++++141	FSK 200/500	(AB)
M42c	7507	7-1	1035	Thu	Russian diplo/intel. =8731 211902042946311115 ...)57657 000+++++++129 (2 msgs)	FSK 200/500	(AB/Danix)
M42c	7507	8-1	1035	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	7507	11-1	1035	Mon	Russian diplo/intel. =8711 56453531447162167 ...)57614100000+++++++177	FSK 200/500	(AB)
M42c	7507	12-1	1035	Tue	Russian diplo/intel. =8881 59186056200817264 ...)71364 6111900000+++++249 (2 msgs)	FSK 200/500	(AB)
M42c	7507	13-1	1035	Wed	Russian diplo/intel. =8131 11536991598299269 ...)581142+++++++125	FSK 200/500	(AB)
M42c	7507	14-1	1035	Thu	Russian diplo/intel. =8131 604733115452871117 ...)76462 6411300000+++++134 (2 msgs)	FSK 200/500	(AB)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M42c	7507	15-1	1035	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	7507	18-1	1035	Mon	Russian diplo/intel. =8011 975655322249958148 ...)7061406541700000+++++211	FSK 200/500	(AB)
M42c	7507	19-1	1035	Tue	Russian diplo/intel. =8441 65526102094991798 ...)71068 6709100000+++++189 (2 msgs)	FSK 200/500	(AB)
M42c	7507	20-1	1035	Wed	Russian diplo/intel. =8421 07557417297148194 ...)57613500000+++++++160	FSK 200/500	(AB)
M42c	7507	21-1	1035	Thu	Russian diplo/intel. =8681 26335823565272398 ...)58168 ++++++++84 (2 msgs)	FSK 200/500	(AB)
M42c	7507	22-1	1035	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	7507	25-1	1035	Mon	Russian diplo/intel. =8321 72677293529353871 ...)7101427142300000+++++204	FSK 200/500	(AB)
M42c	7507	25-1	1035	Mon	Russian diplo/intel. (2111110009777423182507200839 =7971 005661553438915960 ...)57664 00000+++++++219	FSK 200/500	(AB)
M42c	7507	27-1	1035	Wed	Russian diplo/intel. RYRYRY =8491 82687839371917040 ...)57663 00000+++++++218 (2 msgs)	FSK 200/500	(AB)
M42c	7507	27-1	1035	Wed	Russian diplo/intel. =8611 59871680265149258 ...)581144+++++++91	FSK 200/500	(AB)
M42c	7507	29-1	1035	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	7629	5-1	1940	Tue	Russian diplo/intel. Serial #46, Groups 422 - 68018 21580 12718 90984 71978 ... 01066	FSK 200/500	(Danix)
M42c	7682	2-1	1810	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB/MPJ/HFD)
M42c	7682	9-1	1810	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	7682	16-1	1810	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	7682	23-1	1810	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	9160	1-1	1025	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	9160	4-1	1025	Mon	Russian diplo/intel. =7561 432878555955486112 ...)7041505344700000+++++186	FSK 200/500	(AB)
M42c	9160	5-1	1025	Tue	Russian diplo/intel. =8431 54377246658046696 ...)57655 00000+++++++151 (2 msgs)	FSK 200/500	(AB)
M42c	9160	6-1	1025	Wed	Russian diplo/intel. =8581 968050219847179123 ...)7651445642900000+++++141	FSK 200/500	(AB)
M42c	9160	7-1	1025	Thu	Russian diplo/intel. =8731 211902042946311115 ...)57657 000+++++++129 (2 msgs)	FSK 200/500	(AB/Danix)
M42c	9160	8-1	1025	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	9160	11-1	1025	Mon	Russian diplo/intel. =8711 56453531447162167 ...)57614100000+++++++177	FSK 200/500	(AB)
M42c	9160	12-1	1025	Tue	Russian diplo/intel. =8881 59186056200817264 ...)71364 6111900000+++++249 (2 msgs)	FSK 200/500	(AB)
M42c	9160	13-1	1025	Wed	Russian diplo/intel. =8131 11536991598299269 ...)581142+++++++125	FSK 200/500	(AB)
M42c	9160	14-1	1025	Thu	Russian diplo/intel. =8131 604733115452871117 ...)76462 6411300000+++++134 (2 msgs)	FSK 200/500	(AB)
M42c	9160	15-1	1025	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	9160	18-1	1025	Mon	Russian diplo/intel. =8011 975655322249958148 ...)7061406541700000+++++211	FSK 200/500	(AB)
M42c	9160	19-1	1025	Tue	Russian diplo/intel. =8441 65526102094991798 ...)71068 6709100000+++++189 (2 msgs)	FSK 200/500	(AB)
M42c	9160	20-1	1025	Wed	Russian diplo/intel. =8421 07557417297148194 ...)57613500000+++++++160	FSK 200/500	(AB)
M42c	9160	21-1	1025	Thu	Russian diplo/intel. =8681 26335823565272398 ...)58168 ++++++++84 (2 msgs)	FSK 200/500	(AB)
M42c	9160	22-1	1025	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	9160	25-1	1025	Mon	Russian diplo/intel. =8321 72677293529353871 ...)7101427142300000+++++204	FSK 200/500	(AB)
M42c	9160	26-1	1025	Tue	Russian diplo/intel. (2111110009777423182507200839 =7971 005661553438915960 ...)57664 00000+++++++219	FSK 200/500	(AB)
M42c	9160	27-1	1025	Wed	Russian diplo/intel. RYRYRY =8491 82687839371917040 ...)57663 00000+++++++218 (2 msgs)	FSK 200/500	(AB)
M42c	9160	27-1	1025	Wed	Russian diplo/intel. =8611 59871680265149258 ...)581144+++++++91	FSK 200/500	(AB)
M42c	9160	29-1	1025	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	11077	1-1	1015	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	11077	4-1	1015	Mon	Russian diplo/intel. =7561 432878555955486112 ...)7041505344700000+++++186	FSK 200/500	(AB)
M42c	11077	5-1	1015	Tue	Russian diplo/intel. =8431 54377246658046696 ...)57655 00000+++++++151 (2 msgs)	FSK 200/500	(AB)
M42c	11077	6-1	1015	Wed	Russian diplo/intel. =8581 968050219847179123 ...)7651445642900000+++++141	FSK 200/500	(AB)
M42c	11077	7-1	1015	Thu	Russian diplo/intel. =8731 211902042946311115 ...)57657 000+++++++129 (2 msgs)	FSK 200/500	(AB/Danix)
M42c	11077	8-1	1015	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	11077	11-1	1015	Mon	Russian diplo/intel. =8711 56453531447162167 ...)57614100000+++++++177	FSK 200/500	(AB)
M42c	11077	12-1	1015	Tue	Russian diplo/intel. =8881 59186056200817264 ...)71364 6111900000+++++249 (2 msgs)	FSK 200/500	(AB)
M42c	11077	13-1	1015	Wed	Russian diplo/intel. =8131 11536991598299269 ...)581142+++++++125	FSK 200/500	(AB)
M42c	11077	14-1	1015	Thu	Russian diplo/intel. =8131 604733115452871117 ...)76462 6411300000+++++134 (2 msgs)	FSK 200/500	(AB)
M42c	11077	15-1	1015	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	11077	18-1	1015	Mon	Russian diplo/intel. =8011 975655322249958148 ...)7061406541700000+++++211	FSK 200/500	(AB)
M42c	11077	19-1	1015	Tue	Russian diplo/intel. =8441 65526102094991798 ...)71068 6709100000+++++189 (2 msgs)	FSK 200/500	(AB)
M42c	11077	20-1	1015	Wed	Russian diplo/intel. =8421 07557417297148194 ...)57613500000+++++++160	FSK 200/500	(AB)
M42c	11077	21-1	1015	Thu	Russian diplo/intel. =8681 26335823565272398 ...)58168 ++++++++84 (2 msgs)	FSK 200/500	(AB)
M42c	11077	22-1	1015	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	11077	25-1	1015	Mon	Russian diplo/intel. =8321 72677293529353871 ...)7101427142300000+++++204	FSK 200/500	(AB)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M42c	11077	26-1	1015	Tue	Russian diplo/intel. (2111110009777423182507200839 =7971 005661553438915960 ...)57664 00000+++++++219	FSK 200/500	(AB)
M42c	11077	27-1	1015	Wed	Russian diplo/intel. =8611 59871680265149258 ...)581144+++++++91	FSK 200/500	(AB)
M42c	11077	27-1	1015	Wed	Russian diplo/intel. RYRYRY =8491 82687839371917040 ...)57663 00000+++++++218 (2 msgs)	FSK 200/500	(AB)
M42c	11077	29-1	1015	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	14672	2-1	1320	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB/F5JBR)
M42c	14672	9-1	1320	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)
M42c	14672	16-1	1320	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(F5JBR/HFD)
M42c	14672	23-1	1320	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	14672	30-1	1320	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	16140	2-1	1310	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB/F5JBR)
M42c	16140	9-1	1310	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	16140	23-1	1310	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	16140	30-1	1310	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	16142	16-1	1310	Sat	Russian diplo/intel	FSK 200/500	(HFD)
M42c	18524	2-1	1300	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	18524	9-1	1300	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB/MPJ/Danix)
M42c	18524	23-1	1300	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	18524	30-1	1300	Sat	Russian diplo/intel. RYRYRY)5761 00000+++++++162	FSK 200/500	(AB)
M42c	18526	16-1	1300	Sat	Russian diplo/intel	FSK 200/500	(HFD)
M42d	5146	26-1	2320	Tue	Russian diplo/intel. Msg 160 on link 40988 date 25th - 84bc ab59 31cf be28 0aba ... 9cb4 (547 groups)	FSK 200/1000	(Danix)
M42d	5382	5-1	1710	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/Danix)
M42d	5382	12-1	1710	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/Danix)
M42d	5382	19-1	1710	Tue	Russian diplo/intel. Msg 147 on link 20501	FSK 200/1000	(AB)
M42d	5382	26-1	1710	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(MPJ/Danix)
M42d	6767	1-1	0720	Fri	Russian diplo/intel. Msg 007 on link 45136	FSK 200/1000	(AB)
M42d	6767	4-1	0720	Mon	Russian diplo/intel. Msg 020 on link 45137	FSK 200/1000	(AB)
M42d	6767	5-1	0720	Tue	Russian diplo/intel. Msg 022 on link 45136	FSK 200/1000	(AB/Danix)
M42d	6767	6-1	0720	Wed	Russian diplo/intel. Msg 027 on link 45136	FSK 200/1000	(AB)
M42d	6767	7-1	0720	Thu	Russian diplo/intel. Msg 030 on link 45136	FSK 200/1000	(AB/Danix)
M42d	6767	8-1	0720	Fri	Russian diplo/intel. Msg 165 on link 45137	FSK 200/1000	(AB/Danix)
M42d	6767	11-1	0720	Mon	Russian diplo/intel. Msg 035 on link 45136	FSK 200/1000	(AB)
M42d	6767	12-1	0720	Tue	Russian diplo/intel. Msg 037 on link 45136	FSK 200/1000	(AB)
M42d	6767	13-1	0720	Wed	Russian diplo/intel. Msg 042 on link 45136	FSK 200/1000	(AB)
M42d	6767	14-1	0720	Thu	Russian diplo/intel. Msg 045 on link 45136	FSK 200/1000	(AB)
M42d	6767	15-1	0720	Fri	Russian diplo/intel. Null msg on link 45136	FSK 200/1000	(AB)
M42d	6767	18-1	0720	Mon	Russian diplo/intel. Msg 050 on link 45136	FSK 200/1000	(AB)
M42d	6767	19-1	0720	Tue	Russian diplo/intel. Msg 052 on link 45137	FSK 200/1000	(AB)
M42d	6767	20-1	0720	Wed	Russian diplo/intel. Msg 057 on link 45137	FSK 200/1000	(AB)
M42d	6767	21-1	0720	Thu	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	6767	22-1	0720	Fri	Russian diplo/intel. Msg 007 on link 45136	FSK 200/1000	(AB)
M42d	6767	25-1	0720	Mon	Russian diplo/intel. Msg 065 on link 45136	FSK 200/1000	(AB)
M42d	6767	26-1	0720	Tue	Russian diplo/intel. Msg 067 on link 45136	FSK 200/1000	(AB)
M42d	6767	28-1	0720	Thu	Russian diplo/intel. Msg 075 on link 45137	FSK 200/1000	(AB)
M42d	6767	29-1	0720	Fri	Russian diplo/intel. Msg 117 on link 45136	FSK 200/1000	(AB)
M42d	6794	4-1	1220	Mon	Russian diplo/intel. Msg 020 on link 45137	FSK 200/1000	(AB)
M42d	6794	5-1	1220	Tue	Russian diplo/intel. Msg 022 on link 45136	FSK 200/1000	(AB/Danix/MPJ)
M42d	6794	6-1	1220	Wed	Russian diplo/intel. Msg 027 on link 45136	FSK 200/1000	(AB)
M42d	6794	7-1	1220	Thu	Russian diplo/intel. Msg 030 on link 45136	FSK 200/1000	(AB/Danix)
M42d	6794	12-1	1220	Tue	Russian diplo/intel. Msg 037 on link 45136	FSK 200/1000	(AB)
M42d	6794	13-1	1220	Wed	Russian diplo/intel. Msg 042 on link 45136	FSK 200/1000	(AB)
M42d	6794	14-1	1220	Thu	Russian diplo/intel. Msg 045 on link 45136	FSK 200/1000	(AB)
M42d	6794	18-1	1220	Mon	Russian diplo/intel. Msg 050 on link 45136	FSK 200/1000	(AB)
M42d	6794	19-1	1220	Tue	Russian diplo/intel. Msg 052 on link 45137	FSK 200/1000	(AB)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M42d	6794	20-1	1220	Wed	Russian diplo/intel. Msg 057 on link 45137	FSK 200/1000	(AB)
M42d	6794	21-1	1220	Thu	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	6794	25-1	1220	Mon	Russian diplo/intel. Msg 065 on link 45136	FSK 200/1000	(AB)
M42d	6794	26-1	1220	Tue	Russian diplo/intel. Msg 067 on link 45136	FSK 200/1000	(AB)
M42d	6794	28-1	1220	Thu	Russian diplo/intel. Msg 075 on link 45137	FSK 200/1000	(AB)
M42d	6827	10-1	1820	Sun	One message: Link ID 00000, Date 7th, Serial #7 - 5a4a 9c86 b5a4 df8d fb53 ... 2000 (242 groups)	FSK 200/1000	(Danix)
M42d	6962	29-1	0620	Fri	Russian diplo/intel. Msg 160 on link 40988	FSK 200/1000	(AB)
M42d	7641	26-1	2310	Tue	Russian diplo/intel. Msg 160 on link 40988 date 25th - 84bc ab59 31cf be28 0aba ... 9cb4 (547 groups)	FSK 200/1000	(Danix)
M42d	7851	29-1	0610	Fri	Russian diplo/intel. Msg 160 on link 40988	FSK 200/1000	(AB)
M42d	7859	5-1	1700	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/Danix)
M42d	7859	12-1	1700	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/Danix)
M42d	7859	19-1	1700	Tue	Russian diplo/intel. Msg 147 on link 20501	FSK 200/1000	(AB)
M42d	7859	26-1	1700	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(MPJ/Danix)
M42d	8021	4-1	1210	Mon	Russian diplo/intel. Msg 020 on link 45137	FSK 200/1000	(AB)
M42d	8021	5-1	1210	Tue	Russian diplo/intel. Msg 022 on link 45136	FSK 200/1000	(AB/Danix/MPJ)
M42d	8021	6-1	1210	Wed	Russian diplo/intel. Msg 027 on link 45136	FSK 200/1000	(AB/MPJ)
M42d	8021	7-1	1210	Thu	Russian diplo/intel. Msg 030 on link 45136	FSK 200/1000	(AB/Danix)
M42d	8021	12-1	1210	Tue	Russian diplo/intel. Msg 037 on link 45136	FSK 200/1000	(AB)
M42d	8021	13-1	1210	Wed	Russian diplo/intel. Msg 042 on link 45136	FSK 200/1000	(AB)
M42d	8021	14-1	1210	Thu	Russian diplo/intel. Msg 045 on link 45136	FSK 200/1000	(AB)
M42d	8021	18-1	1210	Mon	Russian diplo/intel. Msg 050 on link 45136	FSK 200/1000	(AB)
M42d	8021	19-1	1210	Tue	Russian diplo/intel. Msg 052 on link 45137	FSK 200/1000	(AB)
M42d	8021	20-1	1210	Wed	Russian diplo/intel. Msg 057 on link 45137	FSK 200/1000	(AB)
M42d	8021	21-1	1210	Thu	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	8021	25-1	1210	Mon	Russian diplo/intel. Msg 065 on link 45136	FSK 200/1000	(AB)
M42d	8021	26-1	1210	Tue	Russian diplo/intel. Msg 067 on link 45136	FSK 200/1000	(AB)
M42d	8021	28-1	1210	Thu	Russian diplo/intel. Msg 075 on link 45137	FSK 200/1000	(AB)
M42d	8066	1-1	0710	Fri	Russian diplo/intel. Msg 007 on link 45136	FSK 200/1000	(AB)
M42d	8066	4-1	0710	Mon	Russian diplo/intel. Msg 020 on link 45137	FSK 200/1000	(AB)
M42d	8066	5-1	0710	Tue	Russian diplo/intel. Msg 022 on link 45136	FSK 200/1000	(AB/Danix)
M42d	8066	6-1	0710	Wed	Russian diplo/intel. Msg 027 on link 45136	FSK 200/1000	(AB)
M42d	8066	7-1	0710	Thu	Russian diplo/intel. Msg 030 on link 45136	FSK 200/1000	(AB/Danix)
M42d	8066	8-1	0710	Fri	Russian diplo/intel. Msg 165 on link 45137	FSK 200/1000	(AB/Danix)
M42d	8066	11-1	0710	Mon	Russian diplo/intel. Msg 035 on link 45136	FSK 200/1000	(AB)
M42d	8066	12-1	0710	Tue	Russian diplo/intel. Msg 037 on link 45136	FSK 200/1000	(AB)
M42d	8066	13-1	0710	Wed	Russian diplo/intel. Msg 042 on link 45136	FSK 200/1000	(AB)
M42d	8066	14-1	0710	Thu	Russian diplo/intel. Msg 045 on link 45136	FSK 200/1000	(AB)
M42d	8066	15-1	0710	Fri	Russian diplo/intel. Null msg on link 45136	FSK 200/1000	(AB)
M42d	8066	18-1	0710	Mon	Russian diplo/intel. Msg 050 on link 45136	FSK 200/1000	(AB)
M42d	8066	19-1	0710	Tue	Russian diplo/intel. Msg 052 on link 45137	FSK 200/1000	(AB)
M42d	8066	20-1	0710	Wed	Russian diplo/intel. Msg 057 on link 45137	FSK 200/1000	(AB)
M42d	8066	21-1	0710	Thu	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	8066	22-1	0710	Fri	Russian diplo/intel. Msg 007 on link 45136	FSK 200/1000	(AB)
M42d	8066	25-1	0710	Mon	Russian diplo/intel. Msg 065 on link 45136	FSK 200/1000	(AB)
M42d	8066	26-1	0710	Tue	Russian diplo/intel. Msg 067 on link 45136	FSK 200/1000	(AB)
M42d	8066	28-1	0710	Thu	Russian diplo/intel. Msg 075 on link 45137	FSK 200/1000	(AB)
M42d	8066	29-1	0710	Fri	Russian diplo/intel. Msg 117 on link 45136	FSK 200/1000	(AB)
M42d	8082	10-1	1810	Sun	One message: Link ID 00000, Date 7th, Serial #7 - 5a4a 9c86 b5a4 df8d fb53 ... 2000 (242 groups)	FSK 200/1000	(Danix)
M42d	8124	26-1	2300	Tue	Russian diplo/intel. Msg 160 on link 40988 date 25th - 84bc ab59 31cf be28 0aba ... 9cb4 (547 groups)	FSK 200/1000	(Danix)
M42d	8127	9-1	1550	Sat	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/MPJ/Danix)
M42d	8127	24-1	1550	Sun	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB)
M42d	9066	29-1	0600	Fri	Russian diplo/intel. Msg 160 on link 40988	FSK 200/1000	(AB)
M42d	9141	5-1	1650	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/Danix)

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M42d	9141	12-1	1650	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/Danix)
M42d	9141	19-1	1650	Tue	Russian diplo/intel. Msg 147 on link 20501	FSK 200/1000	(AB)
M42d	9141	26-1	1650	Tue	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(Danix)
M42d	10156	4-1	1200	Mon	Russian diplo/intel. Msg 020 on link 45137	FSK 200/1000	(AB)
M42d	10156	5-1	1200	Tue	Russian diplo/intel. Msg 022 on link 45136	FSK 200/1000	(AB/Danix/M PJ)
M42d	10156	6-1	1200	Wed	Russian diplo/intel. Msg 027 on link 45136	FSK 200/1000	(AB)
M42d	10156	7-1	1200	Thu	Russian diplo/intel. Msg 030 on link 45136	FSK 200/1000	(AB/Danix)
M42d	10156	12-1	1200	Tue	Russian diplo/intel. Msg 037 on link 45136	FSK 200/1000	(AB)
M42d	10156	13-1	1200	Wed	Russian diplo/intel. Msg 042 on link 45136	FSK 200/1000	(AB)
M42d	10156	14-1	1200	Thu	Russian diplo/intel. Msg 045 on link 45136	FSK 200/1000	(AB)
M42d	10156	18-1	1200	Mon	Russian diplo/intel. Msg 050 on link 45136	FSK 200/1000	(AB)
M42d	10156	19-1	1200	Tue	Russian diplo/intel. Msg 052 on link 45137	FSK 200/1000	(AB)
M42d	10156	20-1	1200	Wed	Russian diplo/intel. Msg 057 on link 45137	FSK 200/1000	(AB)
M42d	10156	21-1	1200	Thu	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	10156	25-1	1200	Mon	Russian diplo/intel. Msg 065 on link 45136	FSK 200/1000	(AB)
M42d	10156	26-1	1200	Tue	Russian diplo/intel. Msg 067 on link 45136	FSK 200/1000	(AB)
M42d	10156	28-1	1200	Thu	Russian diplo/intel. Msg 075 on link 45137	FSK 200/1000	(AB)
M42d	10234	9-1	1540	Sat	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/Danix)
M42d	10234	24-1	1540	Sun	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB)
M42d	10241	7-1	1350	Thu	Russian diplo/intel. Null message: Link ID 49237	FSK 200/1000	(AB/Danix)
M42d	10241	14-1	1350	Thu	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	10241	21-1	1350	Thu	Russian diplo/intel. Msg 022 on link 49237	FSK 200/1000	(AB)
M42d	10241	28-1	1350	Thu	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	10292	1-1	0700	Fri	Russian diplo/intel. Msg 007 on link 45136	FSK 200/1000	(AB)
M42d	10292	4-1	0700	Mon	Russian diplo/intel. Msg 020 on link 45137	FSK 200/1000	(AB)
M42d	10292	5-1	0700	Tue	Russian diplo/intel. Msg 022 on link 45136	FSK 200/1000	(AB/Danix)
M42d	10292	6-1	0700	Wed	Russian diplo/intel. Msg 027 on link 45136	FSK 200/1000	(AB)
M42d	10292	7-1	0700	Thu	Russian diplo/intel. Msg 030 on link 45136	FSK 200/1000	(AB/Danix)
M42d	10292	8-1	0700	Fri	Russian diplo/intel. Msg 165 on link 45137	FSK 200/1000	(AB/Danix)
M42d	10292	11-1	0700	Mon	Russian diplo/intel. Msg 035 on link 45136	FSK 200/1000	(AB)
M42d	10292	12-1	0700	Tue	Russian diplo/intel. Msg 037 on link 45136	FSK 200/1000	(AB)
M42d	10292	13-1	0700	Wed	Russian diplo/intel. Msg 042 on link 45136	FSK 200/1000	(AB)
M42d	10292	14-1	0700	Thu	Russian diplo/intel. Msg 045 on link 45136	FSK 200/1000	(AB)
M42d	10292	15-1	0700	Fri	Russian diplo/intel. Null msg on link 45136	FSK 200/1000	(AB)
M42d	10292	18-1	0700	Mon	Russian diplo/intel. Msg 050 on link 45136	FSK 200/1000	(AB)
M42d	10292	19-1	0700	Tue	Russian diplo/intel. Msg 052 on link 45137	FSK 200/1000	(AB)
M42d	10292	20-1	0700	Wed	Russian diplo/intel. Msg 057 on link 45137	FSK 200/1000	(AB)
M42d	10292	21-1	0700	Thu	Russian diplo/intel. Msg 060 on link 45136	FSK 200/1000	(AB)
M42d	10292	22-1	0700	Fri	Russian diplo/intel. Msg 007 on link 45136	FSK 200/1000	(AB)
M42d	10292	25-1	0700	Mon	Russian diplo/intel. Msg 065 on link 45136	FSK 200/1000	(AB)
M42d	10292	26-1	0700	Tue	Russian diplo/intel. Msg 067 on link 45136	FSK 200/1000	(AB)
M42d	10292	28-1	0700	Thu	Russian diplo/intel. Msg 075 on link 45137	FSK 200/1000	(AB)
M42d	10292	29-1	0700	Fri	Russian diplo/intel. Msg 117 on link 45136	FSK 200/1000	(AB)
M42d	10316	10-1	1800	Sun	One message: Link ID 00000, Date 7th, Serial #7 - 5a4a 9c86 b5a4 df8d fb53 ... 2000 (242 groups)	FSK 200/1000	(Danix)
M42d	12146	9-1	1530	Sat	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB/Danix)
M42d	12146	24-1	1530	Sun	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(AB)
M42d	12164	20-1	1250	Wed	Russian diplo/intel. Msg 002 on link 53275	FSK 200/1000	(AB)
M42d	12184	7-1	1340	Thu	Russian diplo/intel. Null message: Link ID 49237	FSK 200/1000	(AB/Danix)
M42d	12184	14-1	1340	Thu	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	12184	21-1	1340	Thu	Russian diplo/intel. Msg 022 on link 49237	FSK 200/1000	(AB)
M42d	12184	28-1	1340	Thu	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	13378	23-1	0920	Sat	Russian diplo/intel. Msg 060 on link 45114	FSK 200/1000	(AB/Danix)
M42d	13380	9-1	1510	Sat	Russian diplo/intel. Null message: Link ID 32821	FSK 200/1000	(AB/Danix)
M42d	13394	5-1	1440	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/Danix)
M42d	13394	12-1	1440	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
M42d	13394	26-1	1440	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/Danix)

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M42d	13526	8-1	1420	Fri	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(Danix)
M42d	13526	9-1	1420	Sat	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB/Danix)
M42d	13526	9-1	1420	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	13526	10-1	1420	Sun	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(Danix/MPJ)
M42d	13526	10-1	1420	Sun	Russian diplo/intel. Null message: Link ID 41023	FSK 200/1000	(AB/MPJ)
M42d	13526	12-1	1420	Tue	Russian diplo/intel. Msg Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	13526	13-1	1420	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/F5JBR)
M42d	13526	14-1	1420	Thu	Russian diplo/intel. Msg 002 on Link ID 41022	FSK 200/1000	(AB)
M42d	13526	17-1	1420	Sun	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	13526	18-1	1420	Mon	Russian diplo/intel. Null message on link ID 41022	FSK 200/1000	(AB)
M42d	13526	19-1	1420	Tue	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	13526	20-1	1420	Wed	Russian diplo/intel. Null message: Link ID 41023	FSK 200/1000	(Danix)
M42d	13526	21-1	1420	Thu	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	13526	22-1	1420	Fri	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	13526	23-1	1420	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	13526	24-1	1420	Sun	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	13526	25-1	1420	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)
M42d	13526	26-1	1420	Tue	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/Danix)
M42d	13526	27-1	1420	Wed	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	13526	29-1	1420	Fri	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(MPJ)
M42d	13526	30-1	1420	Sat	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB/MPJ)
M42d	14492	6-1	1020	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
M42d	14492	13-1	1020	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
M42d	14492	20-1	1020	Wed	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB)
M42d	14492	27-1	1020	Wed	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB)
M42d	14659	7-1	1330	Thu	Russian diplo/intel. Null message: Link ID 49237	FSK 200/1000	(AB/Danix)
M42d	14659	14-1	1330	Thu	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	14659	21-1	1330	Thu	Russian diplo/intel. Msg 022 on link 49237	FSK 200/1000	(AB)
M42d	14659	28-1	1330	Thu	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	14824	20-1	1240	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB)
M42d	14974	13-1	1035	Wed	Russian diplo/intel. Msg 002 on link 20492	FSK 200/1000	(AB)
M42d	15633	23-1	0910	Sat	Russian diplo/intel. Msg 060 on link 45114	FSK 200/1000	(AB/Danix)
M42d	15635	9-1	0910	Sat	Russian diplo/intel. Null message: Link ID 45114	FSK 200/1000	(Danix)
M42d	15636	9-1	1120	Sat	Russian diplo/intel. Msg 002 on link 36882	FSK 200/1000	(AB/Danix)
M42d	15636	16-1	1120	Sat	Russian diplo/intel. Msg 090 on link 36882	FSK 200/1000	(AB/Danix)
M42d	15636	23-1	1120	Sat	Russian diplo/intel. Msg 092 on link 36882	FSK 200/1000	(AB)
M42d	15636	24-1	1120	Sun	Russian diplo/intel. Msg 092 on link 36882	FSK 200/1000	(AB)
M42d	15636	30-1	1120	Sat	Russian diplo/intel. Msg 095 on link 36882	FSK 200/1000	(AB/PPA)
M42d	15636	31-1	1120	Sun	Russian diplo/intel. Msg 095 on link 36882	FSK 200/1000	(AB/Danix)
M42d	15832	8-1	1410	Fri	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(Danix)
M42d	15832	9-1	1410	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)
M42d	15832	9-1	1410	Sat	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB/Danix)
M42d	15832	10-1	1410	Sun	Russian diplo/intel. Null message: Link ID 41023	FSK 200/1000	(AB)
M42d	15832	10-1	1410	Sun	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(Danix)
M42d	15832	12-1	1410	Tue	Russian diplo/intel. Msg Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	15832	13-1	1410	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	15832	14-1	1410	Thu	Russian diplo/intel. Msg 002 on Link ID 41022	FSK 200/1000	(AB)
M42d	15832	17-1	1410	Sun	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	15832	18-1	1410	Mon	Russian diplo/intel. Null message on link ID 41022	FSK 200/1000	(AB)
M42d	15832	19-1	1410	Tue	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	15832	20-1	1410	Wed	Russian diplo/intel. Null message: Link ID 41023	FSK 200/1000	(Danix)
M42d	15832	21-1	1410	Thu	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	15832	22-1	1410	Fri	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	15832	23-1	1410	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	15832	24-1	1410	Sun	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	15832	25-1	1410	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)
M42d	15832	26-1	1410	Tue	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/Danix)
M42d	15832	27-1	1410	Wed	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)

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M42d	15832	30-1	1410	Sat	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	15836	5-1	1420	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/Danix)
M42d	15836	12-1	1420	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
M42d	15836	26-1	1420	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/Danix)
M42d	15912	13-1	0800	Wed	Russian diplo/intel. Msg 112 on link 45075	FSK 200/1000	(AB)
M42d	15912	20-1	0800	Wed	Russian diplo/intel. Msg 007 on link 45075	FSK 200/1000	(AB)
M42d	15912	27-1	0800	Wed	Russian diplo/intel. Msg 102 on link 45075	FSK 200/1000	(AB)
M42d	16046	13-1	1025	Wed	Russian diplo/intel. Msg 002 on link 20492	FSK 200/1000	(AB)
M42d	16154	23-1	1550	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	16156	9-1	1550	Sat	Russian diplo/intel. Null message: Link ID 32821	FSK 200/1000	(Danix)
M42d	16306	2-1	1520	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	16306	9-1	0920	Sat	Russian diplo/intel. Null message: Link ID 45114	FSK 200/1000	(Danix)
M42d	16306	9-1	1520	Sat	Russian diplo/intel. Null message: Link ID 32821	FSK 200/1000	(AB/Danix)
M42d	16306	23-1	1520	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	16306	30-1	1520	Sat	Russian diplo/intel. Null message: Link ID 32821	FSK 200/1000	(AB/Danix/M PJ)
M42d	16326	9-1	1020	Sat	Russian diplo/intel. Msg 197 on link 45057	FSK 200/1000	(AB/Danix)
M42d	16326	24-1	1020	Sun	Russian diplo/intel. Msg 197 on link 45057	FSK 200/1000	(AB/F5JBR)
M42d	16327	20-1	1230	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB)
M42d	16344	13-1	0920	Wed	Russian diplo/intel. Msg 235 on link 16404	FSK 200/1000	(AB)
M42d	16344	14-1	0920	Thu	Russian diplo/intel. Msg 235 on link 16404	FSK 200/1000	(AB)
M42d	16346	6-1	1010	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
M42d	16346	13-1	1010	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
M42d	16346	20-1	1010	Wed	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB)
M42d	16346	27-1	1010	Wed	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB)
M42d	17421	8-1	1400	Fri	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(Danix)
M42d	17421	9-1	1400	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	17421	9-1	1400	Sat	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB/Danix)
M42d	17421	10-1	1400	Sun	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(Danix)
M42d	17421	10-1	1400	Sun	Russian diplo/intel. Null message: Link ID 41023	FSK 200/1000	(AB/MPJ)
M42d	17421	12-1	1400	Tue	Russian diplo/intel. Msg Null message: Link ID 41022	FSK 200/1000	(AB/MPJ)
M42d	17421	13-1	1400	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	17421	14-1	1400	Thu	Russian diplo/intel. Msg 002 on Link ID 41022	FSK 200/1000	(AB)
M42d	17421	17-1	1400	Sun	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	17421	18-1	1400	Mon	Russian diplo/intel. Null message on link ID 41022	FSK 200/1000	(AB)
M42d	17421	19-1	1400	Tue	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	17421	20-1	1400	Wed	Russian diplo/intel. Null message: Link ID 41023	FSK 200/1000	(Danix)
M42d	17421	21-1	1400	Thu	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	17421	22-1	1400	Fri	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	17421	23-1	1400	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	17421	24-1	1400	Sun	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	17421	25-1	1400	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)
M42d	17421	26-1	1400	Tue	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/Danix)
M42d	17421	27-1	1400	Wed	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	17421	30-1	1400	Sat	Russian diplo/intel. Null message: Link ID 41022	FSK 200/1000	(AB)
M42d	17424	23-1	0900	Sat	Russian diplo/intel. Msg 060 on link 45114	FSK 200/1000	(AB/Danix)
M42d	17426	9-1	0900	Sat	Russian diplo/intel. Null message: Link ID 45114	FSK 200/1000	(Danix)
M42d	17427	5-1	1400	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/Danix)
M42d	17427	12-1	1400	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB)
M42d	17427	26-1	1400	Tue	Russian diplo/intel. Msg 002 on link 32799	FSK 200/1000	(AB/Danix)
M42d	17487	13-1	0800	Wed	Russian diplo/intel. Msg 112 on link 45075	FSK 200/1000	(AB)
M42d	17487	20-1	0800	Wed	Russian diplo/intel. Msg 007 on link 45075	FSK 200/1000	(AB)
M42d	17487	27-1	0800	Wed	Russian diplo/intel. Msg 102 on link 45075	FSK 200/1000	(AB)
M42d	17522	9-1	1110	Sat	Russian diplo/intel. Msg 002 on link 36882	FSK 200/1000	(AB/Danix)
M42d	17522	16-1	1110	Sat	Russian diplo/intel. Msg 090 on link 36882	FSK 200/1000	(AB/Danix)
M42d	17522	23-1	1110	Sat	Russian diplo/intel. Msg 092 on link 36882	FSK 200/1000	(AB/Danix)
M42d	17522	24-1	1110	Sun	Russian diplo/intel. Msg 092 on link 36882	FSK 200/1000	(AB)
M42d	17522	30-1	1110	Sat	Russian diplo/intel. Msg 095 on link 36882	FSK 200/1000	(AB)

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M42d	17522	31-1	1110	Sun	Russian diplo/intel. Msg 095 on link 36882	FSK 200/1000	(AB/Danix)
M42d	18469	2-1	1510	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB/MPJ)
M42d	18469	9-1	1510	Sat	Russian diplo/intel. Null message: Link ID 32821	FSK 200/1000	(AB/Danix)
M42d	18469	23-1	1510	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	18469	30-1	1510	Sat	Russian diplo/intel. Null message: Link ID 32821	FSK 200/1000	(AB/Danix/M PJ)
M42d	18689	9-1	1540	Sat	Russian diplo/intel. Null message: Link ID 32821	FSK 200/1000	(Danix)
M42d	18734	9-1	1010	Sat	Russian diplo/intel. Msg 197 on link 45057	FSK 200/1000	(AB/Danix)
M42d	18734	24-1	1010	Sun	Russian diplo/intel. Msg 197 on link 45057	FSK 200/1000	(AB)
M42d	18767	13-1	0910	Wed	Russian diplo/intel. Msg 235 on link 16404	FSK 200/1000	(AB)
M42d	18767	14-1	0910	Thu	Russian diplo/intel. Msg 235 on link 16404	FSK 200/1000	(AB)
M42d	19311	6-1	1000	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
M42d	19311	13-1	1000	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
M42d	19311	20-1	1000	Wed	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB)
M42d	19311	27-1	1000	Wed	Russian diplo/intel. Msg 110 on link 49202	FSK 200/1000	(AB)
M42d	19431	13-1	1015	Wed	Russian diplo/intel. Msg 002 on link 20492	FSK 200/1000	(AB)
M42d	19434	9-1	1100	Sat	Russian diplo/intel. Msg 002 on link 36882	FSK 200/1000	(AB/Danix)
M42d	19434	16-1	1100	Sat	Russian diplo/intel. Msg 090 on link 36882	FSK 200/1000	(AB/Danix)
M42d	19434	23-1	1100	Sat	Russian diplo/intel. Msg 092 on link 36882	FSK 200/1000	(AB/Danix)
M42d	19434	24-1	1100	Sun	Russian diplo/intel. Msg 092 on link 36882	FSK 200/1000	(AB)
M42d	19434	30-1	1100	Sat	Russian diplo/intel. Msg 095 on link 36882	FSK 200/1000	(AB)
M42d	19434	31-1	1100	Sun	Russian diplo/intel. Msg 095 on link 36882	FSK 200/1000	(AB/Danix)
M42d	19926	13-1	0800	Wed	Russian diplo/intel. Msg 112 on link 45075	FSK 200/1000	(AB)
M42d	19926	20-1	0800	Wed	Russian diplo/intel. Msg 007 on link 45075	FSK 200/1000	(AB)
M42d	19926	27-1	0800	Wed	Russian diplo/intel. Msg 102 on link 45075	FSK 200/1000	(AB)
M42d	20562	2-1	1500	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	20562	9-1	1500	Sat	Russian diplo/intel. Null message: Link ID 32821	FSK 200/1000	(AB/Danix)
M42d	20562	30-1	1500	Sat	Russian diplo/intel. Null message: Link ID 32821	FSK 200/1000	(AB/Danix/M PJ)
M42d	20944	13-1	0900	Wed	Russian diplo/intel. Msg 235 on link 16404	FSK 200/1000	(AB)
M42d	20944	14-1	0900	Thu	Russian diplo/intel. Msg 235 on link 16404	FSK 200/1000	(AB)
M42d	20971	9-1	1000	Sat	Russian diplo/intel. Msg 197 on link 45057	FSK 200/1000	(AB/Danix)
M42d	20971	24-1	1000	Sun	Russian diplo/intel. Msg 197 on link 45057	FSK 200/1000	(AB)
M51a	3881	1-1	1719	Fri	i.p. MUSHQ BWJSU APLMQ BWNSH ETSFZ WCQJA UWKQI NDHRT XCWJA MQAU2 ... textes CW en claires legerement superieure a la vitesse annoncee //6825 kHz		(AB)
M51a	3881	20-1	1852	Wed	FAV22 5L message at 27 Wpm	CW	(PPA)
M51a	3881	23-1	0808	Sat	FAV22 morse training //6825 kHz	CW	(AB)
M51a	5869	8-1	0711	Fri	FAV22 5-letter/figure/punctuation groups	CW	(F5JBR)
M51a	5869	8-1	0807	Fri	FAV22 5-letter/figure/punctuation groups //6234.5 kHz	CW	(F5JBR)
M51a	6234.5	8-1	0807	Fri	FAV22 5-letter/figure/punctuation groups //5869 kHz	CW	(F5JBR)
M51a	6825	1-1	1719	Fri	i.p. MUSHQ BWJSU APLMQ BWNSH ETSFZ WCQJA UWKQI NDHRT XCWJA MQAU2 ... textes CW en claires legerement superieure a la vitesse annoncee //3881 kHz		(AB)
M51a	6825	8-1	1544	Fri	FAV22, 5-letter/figure/punctuation groups	CW	(AB)
M51a	6825	23-1	0808	Sat	FAV22 morse training //3881 kHz	CW	(AB)
M51a	6825	25-1	1351	Mon	FAV22: French Morse Practice 5LGs and punctuation	CW	(MPJ)
M51a	8196	27-1	1757	Wed	Slow French plain-language Morse. Rapid fading makes copy impossible.	CW	(MPJ)
M89	3320	8-1	1606	Fri	i.p. DD7T 477T 75.TT 6DAN UUTT AR QSL ? K. R RPT 24W TT7D TT7D K (Cont'd)	CW	(JPL)
M89	3330	3-1	1316	Sun	i.p. UGT COMM BT 80540/8651/2146/237NR/8230 III =	CW	(JPL)
M89	3330	4-1	1842	Mon	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	4-1	2207	Mon	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	5-1	1422	Tue	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	6-1	1718	Wed	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	6-1	1913	Wed	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	7-1	1436	Thu	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	7-1	2101	Thu	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	8-1	1108	Fri	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	8-1	1529	Fri	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	9-1	0933	Sat	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	9-1	1430	Sat	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)

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M89	3330	9-1	1828	Sat	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	9-1	2112	Sat	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	10-1	1245	Sun	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	10-1	1630	Sun	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	11-1	1851	Mon	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	12-1	1549	Tue	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	12-1	1702	Tue	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	12-1	2232	Tue	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3330	14-1	2117	Thu	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	3642	3-1	1322	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	4-1	1852	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	5-1	1443	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	6-1	1717	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	6-1	1915	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	7-1	2103	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	7-1	2116	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	8-1	1532	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	8-1	1540	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	9-1	1437	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	9-1	1829	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	9-1	2114	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	10-1	1632	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	10-1	2303	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	11-1	1853	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	11-1	1917	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	12-1	1552	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	12-1	2319	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	14-1	2114	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	15-1	2248	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	16-1	1227	Sat	V D KG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	18-1	1537	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	18-1	1708	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	18-1	2012	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	18-1	2340	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	19-1	1348	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	19-1	1612	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	19-1	1857	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	19-1	2116	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	20-1	2317	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	21-1	1743	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	21-1	2336	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	22-1	0034	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	22-1	1542	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	22-1	1606	Fri	i.p. A7U5 AT5T 7D3A A37N TDU7 7T5A DNNT III = 4TD7 D547 T53A (Cont'd) AR QSL ? HR WK NR 31	CW	(JPL)
M89	3642	23-1	0155	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	23-1	1257	Sat	i.p. RA319 55556 NR TAD3 TAD5 RMKS 5.9 TO 5556/5559 =	CW	(JPL)
M89	3642	23-1	2253	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	24-1	1226	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	25-1	1159	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	25-1	1654	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	25-1	1805	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	25-1	2205	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	26-1	1357	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	26-1	1712	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	26-1	2208	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	27-1	1542	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	27-1	1618	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)

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M89	3642	28-1	0152	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	28-1	1441	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	28-1	2227	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	29-1	0039	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	29-1	1606	Fri	V DKG6 (x3) DE 3A7D (x2) //5230	CW	(JPL)
M89	3726	18-1	2016	Sun	i.p. N75U TA34 U763 TN5D A453 7TNU 6DA5	CW	(JPL)
M89	3726	19-1	1618	Tue	i.p. HR WK NR 0119 K. R HR NIL SK. R HR NIL OK	CW	(JPL)
M89	3732	26-1	1720	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3777	3-1	1323	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	4-1	1845	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	4-1	2210	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	5-1	1424	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	6-1	1719	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	6-1	1916	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	7-1	1438	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	7-1	2104	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	8-1	1534	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	9-1	1417	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	9-1	1830	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	9-1	2115	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	10-1	1247	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	11-1	1854	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	12-1	1554	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3777	12-1	2323	Tue	V M8JF (x3) DE RIS9 (x2) //4532 / 6793 / 8060	CW	(JPL)
M89	3777	14-1	2116	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	3821	3-1	2324	Sun	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	4-1	1846	Mon	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	5-1	1427	Tue	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	6-1	1720	Wed	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	6-1	1917	Wed	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	6-1	2333	Wed	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	8-1	1111	Fri	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	8-1	1532	Fri	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	10-1	1637	Sun	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	11-1	1856	Mon	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	12-1	1850	Tue	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	12-1	2318	Tue	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3821	14-1	2112	Thu	V DKSL (x3) DE ALSK (x2) //5644	CW	(JPL)
M89	3894	12-1	1558	Tue	i.p. R DP71 QSA 2 NIL VVV DP7391 DP7491 DP7791 DP7791 DE DP91 NL K	CW	(JPL)
M89	3894	27-1	1602	Wed	i.p. DP7791 QSA 2 NIL. SK GB. DP7391 QSA 1 NIL. DP7491 QSA 2 NIL	CW	(JPL)
M89	4121	16-1	1221	Sat	i.p. 5N6U 64UN 3N5A 4644 NAD6 III III	CW	(JPL)
M89	4131	4-1	1854	Mon	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	5-1	1740	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	6-1	1724	Wed	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	7-1	2107	Thu	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	8-1	1542	Fri	V JKDJ (x3) DE SLBC (x2) //N/H	CW	(JPL)
M89	4131	9-1	1841	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	9-1	2159	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	10-1	1633	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	10-1	2311	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	11-1	1915	Mon	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	12-1	1611	Tue	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	15-1	2253	Fri	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	16-1	1223	Sat	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	18-1	1756	Sun	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	20-1	2314	Wed	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	21-1	2338	Thu	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	22-1	1647	Fri	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M89	4131	23-1	1307	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	23-1	2256	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	24-1	2146	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	25-1	1657	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	25-1	2202	Mon	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	26-1	1403	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	27-1	1616	Wed	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	28-1	1454	Thu	V JKDJ (x3) DE SLBC (x2) //N/H	CW	(JPL)
M89	4131	28-1	2230	Thu	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	29-1	1611	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4137	21-1	1311	Thu	i.p. T6A7 AR QSL ? K. R GA K. OK GA K. N OK GA K	CW	(JPL)
M89	4225	3-1	2327	Sun	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	4225	4-1	1847	Mon	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	4225	4-1	2207	Mon	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	4225	5-1	0300	Tue	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	4225	5-1	1429	Tue	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	4225	12-1	1551	Tue	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	4351	21-1	1320	Thu	i.p. 4DT5 57NA D74A NO .. U . K	CW	(JPL)
M89	4358	21-1	1317	Thu	i.p. 37DN 4TDA 5476 36DA 7T65 7NUA	CW	(JPL)
M89	4358	21-1	1323	Thu	i.p.NR 098 CK 99 ...2100 6744 54N7 4UT6 74..	CW	(JPL)
M89	4375	26-1	1410	Tue	CQ DE DP91 K. NIL SK GB NVA SK GB NIL SK GB	CW	(JPL)
M89	4532	3-1	1323	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	3-1	2323	Sun	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	4532	4-1	1845	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	4-1	2210	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	5-1	1424	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	6-1	1719	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	6-1	1916	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	6-1	2335	Wed	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	4532	7-1	1438	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	7-1	2104	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	8-1	1110	Fri	V M8JF (x3) DE RIS9 (x2) //N/H	CW	(JPL)
M89	4532	8-1	1534	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	9-1	1417	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	9-1	1830	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	9-1	2115	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	10-1	1247	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	10-1	2305	Sun	V M8JF (x3) DE RIS9 (x2) //6793 and 8060	CW	(JPL)
M89	4532	11-1	0927	Mon	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	4532	11-1	1854	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	12-1	1554	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4532	12-1	2323	Tue	V M8JF (x3) DE RIS9 (x2) //3777 / 6793 / 8060	CW	(JPL)
M89	4532	14-1	2116	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4601	10-1	1641	Sun	i.p. 4465 54N5 UNUD 555T D5A3 III = = TN6T 3ANU 74ND 4ADD NU65 ...	CW	(JPL)
M89	4640	22-1	1639	Fri	VVV 3Z9 DE ZN4 VVV 3Z9 (x3) DE ZN4 (x2) QSA ? QSV K	CW	(JPL)
M89	4720	3-1	2330	Sun	VVVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	5-1	1430	Tue	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	6-1	1730	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	6-1	1930	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	6-1	2330	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	7-1	2130	Thu	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	8-1	1230	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	8-1	1530	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	8-1	1730	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	9-1	1430	Sat	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	9-1	1830	Sat	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	10-1	1330	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	10-1	1630	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M89	4720	11-1	0030	Mon	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	12-1	2230	Tue	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	16-1	1230	Sat	VVV ?WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	18-1	1530	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	19-1	2130	Tue	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	20-1	0030	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	21-1	2330	Thu	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	22-1	0030	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	22-1	1630	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	22-1	1730	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	24-1	1230	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	24-1	1630	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	24-1	2230	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	27-1	1630	Wed	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	29-1	0030	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4860	3-1	1320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	3-1	2320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	4-1	2220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	4860	5-1	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	6-1	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	6-1	1920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	8-1	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	8-1	1220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	8-1	1720	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	9-1	1420	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	9-1	2120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	10-1	1320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	11-1	0020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	12-1	1620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	12-1	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	16-1	1120	Sat	VVV (x3) Q2 M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	18-1	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	18-1	1720	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	19-1	2120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	20-1	0020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	22-1	0020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	22-1	1720	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	24-1	0020	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	24-1	1620	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	24-1	2220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	25-1	1220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	26-1	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	27-1	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	27-1	1620	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	29-1	0020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4886	4-1	1854	Mon	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	6-1	1724	Wed	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	7-1	2107	Thu	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	11-1	1915	Mon	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	12-1	1611	Tue	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4886	15-1	2253	Fri	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	16-1	1223	Sat	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	18-1	1756	Sun	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	20-1	2314	Wed	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	21-1	2338	Thu	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	22-1	1647	Fri	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	25-1	2202	Mon	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	27-1	1616	Wed	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M89	4886	28-1	2230	Thu	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	29-1	0038	Fri	V JKDJ (x3) DE SLBC (x2) //5177	CW	(JPL)
M89	5068	12-1	1613	Tue	i.p. 7UNU U5.. SANT U5UD 7U5A 5DNA 34AN	CW	(JPL)
M89	5177	16-1	1111	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	24-1	1221	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	27-1	1210	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	29-1	0038	Fri	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	5197	8-1	1238	Fri	i.p. R DE F9VT K. U3T3 4TDN 56A5 5N36 TUD7 TN3N DTAT A7N4 TAN7 TTT4 AU6N (Cont'd)	CW	(JPL)
M89	5230	29-1	1606	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5326	13-1	0018	Wed	i.p. NR 1173/EX 0824 = NB3/FW0H AR QSY 16 QSY 16 VVV	CW	(JPL)
M89	5340	28-1	1539	Thu	i.p. VV OHPQ DE CHBR K. R U NOTE KP HR K. U NW QRW 7951 COMM HR K	CW	(JPL)
M89	5341	18-1	2342	Sun	i.p. OM5L K8N Q1SG MC76 BW4GFNVF N..34 (see N&O 220)	CW	(JPL)
M89	5454	16-1	1202	Sat	i.p. RPT RPT OK OK HR EX GA K K (see N&O 220)	CW	(JPL)
M89	5460	28-1	0915	Thu	i.p. RHR WK NR 41 K. VV GKBU DE OJMR K (see N&O 220)	CW	(JPL)
M89	5466	25-1	1242	Mon	i.p. R = 9695 AR K. R IEC = 9695 AR K. R OK H. MSG GA K	CW	(JPL)
M89	5555	6-1	0109	Wed	i.p. RPT 07W 9542 9542 K. RPT 41W 8130 8130 K. RPT 69W 3773 3773 K	CW	(JPL)
M89	5555	6-1	1727	Wed	i.p. A6UD 75DT AN34 U654 =	CW	(JPL)
M89	5555	8-1	1549	Fri	i.p. 7NT345A7T4 6U3TT54 ... AR = QJWK TGUD SOZV XBLP YFHA.WIR FJGM EEEE AR	CW	(JPL)
M89	5555	16-1	1058	Sat	VV TQSJ TQSJ DE WECJ WECJ K (see N&O 220)	CW	(JPL)
M89	5555	19-1	1339	Tue	(i.p. 7A3N 4T6U 5N7T 3A4D ...	CW	(JPL)
M89	5555	25-1	1154	Mon	i.p. 6T5A 4U7D 5N4T 4D3N III	CW	(JPL)
M89	5555	28-1	1445	Thu	i.p. = 7DAU 4UAT T47D AAU5 7454 ... R 7G NR 55 CK 55 RAKS 2742 TO 2663 K	CW	(JPL)
M89	5558	18-1	2342	Sun	i.p. NR 9901 CK 1.55N CLS09DGDG 1009 1901 RKRK = AD.P5A4TU5T7DN5T 4A6T D646	CW	(JPL)
M89	5588	3-1	2322	Sun	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5588	5-1	0838	Tue	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5588	6-1	0106	Wed	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5588	6-1	0927	Wed	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5588	7-1	0127	Thu	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5588	10-1	2300	Sun	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5588	11-1	0014	Mon	i.p. 43AD 3NUN 54NU T747 III = ND7A 745N N5TA U3D4 III = 34T5 III = U47U	CW	(JPL)
M89	5588	11-1	0928	Mon	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5588	12-1	2317	Tue	V MW3D (x3) DE 2SLC (x2)	CW	(JPL)
M89	5644	3-1	2324	Sun	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	4-1	1846	Mon	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	5-1	1427	Tue	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	6-1	1720	Wed	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	6-1	1917	Wed	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	6-1	2333	Wed	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	8-1	1111	Fri	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	8-1	1532	Fri	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	9-1	1422	Sat	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	5644	9-1	1831	Sat	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	5644	9-1	2158	Sat	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	5644	10-1	1229	Sun	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	5644	10-1	1637	Sun	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	11-1	1856	Mon	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	12-1	1555	Tue	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	5644	12-1	1850	Tue	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	12-1	2318	Tue	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5644	14-1	2112	Thu	V DKSL (x3) DE ALSK (x2) //3821	CW	(JPL)
M89	5801	5-1	0856	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	16-1	1051	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	19-1	2022	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	20-1	0912	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	22-1	0932	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	24-1	0329	Sun	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	24-1	1207	Sun	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	26-1	1040	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M89	5801	27-1	0409	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	28-1	0840	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	29-1	0835	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	6326	26-1	1049	Tue	i.p. DNU4 7T36 ND4U A7T5 = USAN 4D7T 367T 53U6 DNA4	CW	(JPL)
M89	6421	6-1	0103	Wed	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	6421	6-1	0928	Wed	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	6421	6-1	1737	Wed	i.p. 01180713AAL 9919228AAL 7226983AAL 278930AAL	CW	(JPL)
M89	6421	7-1	0123	Thu	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	6421	9-1	0934	Sat	V DKSL (x3) DE ALSK (x2)	CW	(JPL)
M89	6421	10-1	2309	Sun	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	6421	11-1	0013	Mon	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	6421	11-1	0926	Mon	V DKSL (x3) DE ALSK (x2) //9131	CW	(JPL)
M89	6565	22-1	0045	Fri	i.p. OK HR 7G GA K. GA NR NR 4140 CK 49 94 01122 0845 RMKS 585...	CW	(JPL)
M89	6611	5-1	0912	Tue	i.p. GHF = AHCDEFGHL = ABCDEFGT EEEE (test)	CW	(JPL)
M89	6633	25-1	1213	Mon	C8FH DE EWED 56NT 74AU T5TU TTT4 DUU4 ANUA 464D	CW	(JPL)
M89	6645	22-1	0038	Fri	i.p. GA K. R F NR 423/EX 0834 RMKS /R3K4 AR K	CW	(JPL)
M89	6793	6-1	0108	Wed	V M8JF (x3) DE RIS9 (x2) //N/H	CW	(JPL)
M89	6793	6-1	0929	Wed	V M8JF (x3) DE RIS9 (x2) //N/H	CW	(JPL)
M89	6793	6-1	2335	Wed	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	6793	7-1	0126	Thu	V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	6793	10-1	2305	Sun	V M8JF (x3) DE RIS9 (x2) //4532 and 8060	CW	(JPL)
M89	6793	11-1	0010	Mon	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	6793	12-1	2323	Tue	V M8JF (x3) DE RIS9 (x2) //3777 / 4532 / 8060	CW	(JPL)
M89	6821	13-1	0014	Wed	i.p. FFF NR 1171/EX 0818 = H4Y/CQ3S AR QSY 18 QSY 18 VVV	CW	(JPL)
M89	6840	3-1	1320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	3-1	2320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	5-1	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	6-1	0120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	6-1	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	6-1	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	6-1	1920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	7-1	0120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	8-1	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	8-1	1220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	9-1	1420	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	9-1	2120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	10-1	1320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	11-1	0020	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	11-1	0120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	11-1	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	12-1	1620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	12-1	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	14-1	2120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	6840	16-1	0120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	16-1	1120	Sat	VVV (x3) Q2M (x3) DE NYZ? ?(x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	18-1	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	18-1	1720	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	19-1	2120	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	20-1	0020	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	22-1	0020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	22-1	1720	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	23-1	0120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	24-1	0020	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	24-1	0320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	24-1	1620	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	24-1	2220	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	25-1	1220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	26-1	1420	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M89	6840	27-1	1120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	27-1	1620	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	29-1	0020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	29-1	0820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6841	29-1	0902	Fri	VV 8MPZ DE CG9T K (see N&O 220)	CW	(JPL)
M89	6850	28-1	0902	Thu	i.p. R QSA 2 QSA ? K. VVV 5GNB DE 0MUQ K (see N&O 220)	CW	(JPL)
M89	6871	13-1	0012	Wed	i.p. NR 1131/EX 0821 RMKS CQ = MY9/OK8 AR QSY 17 QSY 17 VVV	CW	(JPL)
M89	6878	28-1	0840	Thu	i.p. TA44 56N7 D4TA U356 7UAD ... //10180	CW	(JPL)
M89	6916	29-1	0854	Fri	i.p. U574 6DA4 7N45 6T4A III = QSL ?	CW	(JPL)
M89	6958	29-1	0847	Fri	i.p. VV 0HPQ DE CHBR K R QSW HR WK NR 42 U K. NR GA K. R U NOTE KP HR K	CW	(JPL)
M89	7527	22-1	0906	Fri	i.p. D4U6 3N7N T3A6 D4A7 5U6N 7A5N AR K	CW	(JPL)
M89	7582	11-1	0932	Mon	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	7582	11-1	1005	Mon	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	7602	3-1	1322	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	4-1	1852	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	5-1	1443	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	7-1	2116	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	8-1	1540	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	10-1	1632	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	10-1	2303	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	11-1	1917	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	12-1	2319	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	15-1	2248	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	16-1	1227	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	18-1	2012	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	18-1	2340	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	19-1	2116	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	20-1	2317	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	21-1	1307	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	7602	21-1	1307	Thu	i.p. UD57 NA43 D4AN 4D57 4AT4 ? 5ANA AR AR QSL ? HR WK NR 080 0	CW	(JPL)
M89	7602	22-1	0034	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	24-1	1226	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	25-1	1654	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	25-1	1805	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	25-1	2205	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	26-1	1357	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	26-1	2208	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	27-1	1618	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	28-1	0152	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	28-1	1441	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	28-1	1746	Thu	DKG6 de 3A7D V	CW	(F5JBR)
M89	7602	28-1	2227	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7777	5-1	0306	Tue	i.p. OK 25 VNTRC2/CDJ6 AR	CW	(JPL)
M89	7788	19-1	0203	Tue	i.p. TT77 TNUA 5ND3 75TD UT7A AN45 ...	CW	(JPL)
M89	7788	25-1	1213	Mon	HK8F DE EWED 7G NR 001 CK CK CK 21 14 0125 2000 RMKS =	CW	(JPL)
M89	7862	22-1	0920	Fri	i.p. 46U5 A473 753U 547A AUT5 AR QSL ? K. N GK R GA K	CW	(JPL)
M89	8017	6-1	0931	Wed	i.p. 4996 AR K. R R HR NR N AGN HR NR 214 K = IJL2/MNHOP AR K	CW	(JPL)
M89	8017	9-1	0935	Sat	376N 377D NT64 T646 D365 67NN AR K	CW	(JPL)
M89	8035	16-1	1103	Sat	i.p. 1803 RMKS 0544 TO 3163 K R = 7T54 A4T6 .DN5 U.6D D7N4 3N45 ...	CW	(JPL)
M89	8045	22-1	0924	Fri	i.p. TO 31320 = ..7 NA37 .746U (Cont'd)	CW	(JPL)
M89	8060	3-1	2323	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	8060	6-1	2335	Wed	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	8060	10-1	2305	Sun	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	8060	11-1	0010	Mon	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	8060	12-1	2323	Tue	V M8JF (x3) DE RIS9 (x2) //3777 / 4532 / 6793	CW	(JPL)
M89	8101	16-1	1058	Sat	i.p. T6D3 A7DN U47T 3636 7465 3A3N AR AR	CW	(JPL)
M89	8101	16-1	1145	Sat	i.p. U QSY T O NR 18 NR 18 K K (see N&O 220)	CW	(JPL)
M89	8110	5-1	0841	Tue	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M89	8110	7-1	0018	Thu	Probably QV5B i.p. = 418/C464/5736/79/77/482/COMM/0034 AR	CW	(JPL)
M89	8989	20-1	0912	Wed	i.p. 7A56 TU74 N3A6 A675 U4T7 ... //10180	CW	(JPL)
M89	9131	6-1	0103	Wed	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	9131	6-1	0928	Wed	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	9131	7-1	0123	Thu	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	9131	10-1	2309	Sun	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	9131	11-1	0013	Mon	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	9131	11-1	0926	Mon	V DKSL (x3) DE ALSK (x2) //6421	CW	(JPL)
M89	10126	5-1	0858	Tue	i.p. U764 T5UN 776U NA56 III = 7AD4 5U3N DTD3 6T6A D7UN N355 A5N4	CW	(JPL)
M89	10180	5-1	0856	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	16-1	1051	Sat	V DK G6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	19-1	2022	Tue	i.p. RMKS 5319 TO 5187/5461 = COMM/1200/XZ978/80/5317/5187 AR QSL ?	CW	(JPL)
M89	10180	20-1	0912	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	22-1	0932	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	24-1	0329	Sun	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	24-1	1207	Sun	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	26-1	1040	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	27-1	0409	Wed	i.p. 64AU NTDT 46NU AR QSL? HR WR NR 080 //5801	CW	(JPL)
M89	10180	28-1	0840	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	29-1	0835	Fri	i.p. COMM/1700/XZ978/82/5317/5198 AR AGN NR 136 164 RMKS 5419 TO 5198 /5182	CW	(JPL)
M89	10540	28-1	0146	Thu	i.p. T5AD 6N3D N7DA 7543 UA54 RPT 1 ... QSL 0945 0945 0945 C	CW	(JPL)
M89	10640	6-1	0120	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	6-1	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	7-1	0120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	11-1	0120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	11-1	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	16-1	0120	Sat	VVV (x3) Q2M (x3) D E NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	23-1	0120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	24-1	0320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	29-1	0820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10860	19-1	0218	Tue	(i.p. T7AA AR K. RPT 60W = R OK GA R GA	CW	(JPL)
M90	4852	14-1	0709	Thu	HR3H de XVSQ 723 ? 723 K	CW	(F5JBR)
M95	4283	5-1	0929	Tue	XSV70 i.p. 773 3AD 353 4UT 446 N3D ... //7553 kHz	CW	(JPL-HK)
M95	4283	20-1	1332	Wed	Message i.p. on 4283//7553//9149 kHz	CW	(Token)
M95	4284	6-1	0914	Wed	i.p. CY NR 17 CK 115 35 0106 1554 TU3 TA4 TT6 3U6 3A5 TT4 773 354 N3D ... //7554 kHz	CW	(F5JBR)
M95	7553	5-1	0929	Tue	XSV70 i.p. 773 3AD 353 4UT 446 N3D ... //4283 kHz	CW	(JPL-HK)
M95	7553	9-1	0914	Sat	V BNEC (x3) DE XSV70 (x2) HR MSG ... CY NR .. CK 20 .. 35 0109 1555 ...	CW	(JPL-HK)
M95	7553	20-1	1332	Wed	Message i.p. on 4283//7553//9149 kHz	CW	(Token)
M95	7554	6-1	0914	Wed	i.p. CY NR 17 CK 115 35 0106 1554 TU3 TA4 TT6 3U6 3A5 TT4 773 354 N3D ... //4284 kHz	CW	(F5JBR)
M95	7554	24-1	0914	Sun	V BNEC (x3) DE XSV70 (x2) HR MSG GA PSE CY NR 71 CK 149 35 0124 1544 TA4 UT3 TU4 4U6 4A4 TT4 773 ...	CW	(JPL-HK)
M95	7777	27-1	1123	Wed	05 05 05 .4TT 7T4D4U55.N5N7AT A7DD 76N7 64ND D74D 4N5N 4N4N ...	CW	(JPL-HK)
M95	8073	4-1	0006	Mon	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0010 CK 106 35 0104 0704 = TT4 3U4 3A4 TAU 773 TAN 773 ... AR AR AR	CW	(JPL-HK)
M95	8073	7-1	0003	Thu	V BNGC (x3) DE XSV85 (x2) HR MSG GA NR NR 0016 CK 107 35 0107 0711 = TT7 3U4 3A4 TAU 773 TU5 773 357 4T3 NN3 ...	CW	(JPL-HK)
M95	8073	11-1	0004	Mon	V BNGC (x3) DE XSV85 (x2) HR MSG GA MSG NR NR 0024 CK 115 35 0111 0710 = TAA 3U4 4A4 TAU 773 TA7 ...	CW	(JPL-HK)
M95	8073	12-1	0003	Tue	V BNGC (x3) DE XSV85 (x2) HR 7G GA PSE CY NR 0026 CK 102 35 0112 0710 = TAU 3U4 3A4 TAU 773 TA7 773 ...	CW	(JPL-HK)
M95	8073	15-1	1136	Fri	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0033 CK 236 35 0115 1540 = TA5 3U6 3AN 3U7 TAU ...	CW	(JPL-HK)
M95	8073	16-1	0004	Sat	V BNGC (x3) DE XSV85 (x2) HR MSG GA NR 0034 CK 94 35 0116 0708 = TU6 3U4 3U4 3A4...	CW	(JPL-HK)
M95	8073	16-1	1137	Sat	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 003 5 CK 219 35 0116 1512 = TA6 3U6 3AN 3U7 ...	CW	(JPL-HK)
M95	8073	18-1	1140	Mon	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0039 CK 238 35 0118 1542 = T.. 3U6 3AN	CW	(JPL-HK)
M95	8073	19-1	0007	Tue	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0040 CK 89 35 0119 0703 = TAN 3U4 3A4 TAU 773 TA7 773 ...	CW	(JPL-HK)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
M95	8073	19-1	0011	Tue	i.p. 773 TU6 773 357 373 4T3 NN3 MSG AGN AGN = MSG NR 0042 CK 115 35 0120 0728 = TUT 3U4 3A4 TAU 773 TU4 773 TU5 ...	CW	(JPL-HK)
M95	8073	24-1	0004	Sun	V BNGC (x3) DE XSV85 (x2) HR 7GS GA PSE CY NR 0056 CK 81 35 0124 0659 = TU4 3U4 3A4 TAU 773 TA7 773 ...	CW	(JPL-HK)
M95	8073	24-1	1140	Sun	V BNGC (x3) DE XSV85 (x2) HR ... PSE CY NR 0058 CK 24. 35 0124 1742 = TU4 .A6. 3A. 3U7 ...	CW	(JPL-HK)
M95	8073	25-1	0007	Mon	V BNGC (x3) DE XSV85 (x2) NR 0060 CK 83 35 0125 ... =	CW	(JPL-HK)
M95	8073	25-1	1142	Mon	XSV85 i.p. NR 0063 CK 308 35 0125 0551 = TU5 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 353 ...	CW	(JPL-HK)
M95	8073	29-1	0009	Fri	i.p. 773 353 4T3 NN3 445 3DU ... NR 007. CK ... 35 0129 0724 = (Cont'd) AR AR W AR AR EC AR	CW	(MPJ)
M95	8888	24-1	0858	Sun	XSV85 i.p. 1703 = TU4 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 ... 773 TU7 773 TUN 773 357 365 4T3 NN3 44N AR AR	CW	(JPL-HK)
M95	9149	20-1	1332	Wed	Message i.p. on 4283//7553//9149 kHz (should be 9153 kHz)	CW	(Token)
MC03	5135.5	10-1	1256	Sun	676 UT3NU4 A5N 53. 676 UA5446 6445 3A7 AAU 53. 676 UT3NU4 D63NUA4 A5N 53 ...	CW	(JPL-HK)
MX	3593.8	8-1	2038	Fri	Beacon P Kaliningrad	CW	(MPJ)
MX	3593.8	9-1	1435	Sat	Beacon P	CW	(JPL-Sib)
MX	3593.8	10-1	1701	Sun	Beacon P, Kaliningrad	CW	(AB)
MX	3594.1	26-1	1712	Tue	Beacon A, Astrakhan	CW	(JPL-Sib)
MX	3658	10-1	1702	Sun	Beacon V, Khiva	CW	(AB)
MX	3658	25-1	2043	Mon	Beacon V	CW	(AB)
MX	3658	28-1	1908	Thu	Beacon V	CW	(AB)
MX	5055.5	12-1	1906	Tue	Beacon V	CW	(PPA)
MX	5153.8	10-1	1523	Sun	Beacon P, Kaliningrad	CW	(AB)
MX	5154	8-1	1504	Fri	Beacon C	CW	(AB)
MX	5154.4	10-1	1514	Sun	Beacon M, Magadan	CW	(AB-HK)
MX	5154.4	11-1	1051	Mon	Beacon M, Magadan	CW	(AB)
MX	7038.7	8-1	1503	Fri	Beacon D	CW	(AB)
MX	7039.1	14-1	1429	Thu	Beacon A, Astrakhan	CW	(AB)
MX	7039.4	10-1	1514	Sun	Beacon M, Magadan	CW	(AB-HK)
MX	7508.7	7-1	1044	Thu	Beacon D	CW	(AB)
MX	7508.7	8-1	1504	Fri	Beacon D	CW	(AB)
MX	7508.7	10-1	1523	Sun	Beacon D, Sevastopol	CW	(AB)
MX	7508.7	11-1	1051	Mon	Beacon D, Sevastopol	CW	(AB)
MX	7508.7	14-1	1429	Thu	Beacon D, Sevastopol	CW	(AB)
MX	7508.9	7-1	1044	Thu	Beacon S	CW	(AB)
MX	7508.9	11-1	1051	Mon	Beacon S, Sevoromorsk	CW	(AB)
MX	7508.9	14-1	1429	Thu	Beacon S, Sevoromorsk	CW	(AB)
MX	8494	17-1	1208	Sun	Beacon P, Kaliningrad. Wrong offset.	CW	(MPJ)
MX	8494.7	11-1	1051	Mon	Beacon D, Sevastopol	CW	(AB)
MX	8494.7	14-1	1428	Thu	Beacon D, Sevastopol	CW	(AB)
MX	8494.8	10-1	1514	Sun	Beacon P, Kaliningrad	CW	(AB-HK)
MX	8494.8	11-1	1051	Mon	Beacon P, Kaliningrad	CW	(AB)
MX	8494.8	11-1	1732	Mon	Beacon P, Kaliningrad	CW	(PPA)
MX	8494.8	14-1	1428	Thu	Beacon P, Kaliningrad	CW	(AB)
MX	8494.9	11-1	1051	Mon	Beacon S, Sevoromorsk	CW	(AB)
MX	8494.9	14-1	1428	Thu	Beacon S, Sevoromorsk	CW	(AB)
MX	8495	8-1	1503	Fri	Beacon C	CW	(AB)
MX	8495	10-1	1523	Sun	Beacon C, Moscow	CW	(AB)
MX	8495	11-1	1051	Mon	Beacon C, Moscow	CW	(AB)
MX	8495.1	14-1	1428	Thu	Beacon A, Astrakhan	CW	(AB)
MX	8495.2	10-1	1514	Sun	Beacon F, Vladivostok	CW	(AB-HK)
MX	8495.2	11-1	1051	Mon	Beacon F, Vladivostok	CW	(AB)
MX	8495.4	10-1	1514	Sun	Beacon M, Magadan	CW	(AB-HK)
MX	8495.4	11-1	1051	Mon	Beacon M, Magadan	CW	(AB)
MX	8497.8	23-1	0805	Sat	Beacon L. St Petersburg	CW	(AB)
MX	8497.8	31-1	1218	Sun	Beacon L, St Petersburg	CW	(AB)
MX	10871.7	8-1	1502	Fri	Beacon D	CW	(AB)
MX	10871.7	10-1	1523	Sun	Beacon D, Sevastopol	CW	(AB)

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MX	10871.7	11-1	1051	Mon	Beacon D, Sevastopol	CW	(AB)
MX	10871.9	8-1	1502	Fri	Beacon S	CW	(AB)
MX	10871.9	10-1	1523	Sun	Beacon S, Sevoromorsk	CW	(AB)
MX	10871.9	11-1	1051	Mon	Beacon S, Sevoromorsk	CW	(AB)
MX	10872	10-1	1523	Sun	Beacon C, Moscow	CW	(AB)
MX	10872	11-1	1051	Mon	Beacon C, Moscow	CW	(AB)
MX	10872.1	13-1	1030	Wed	Beacon A, Astrakhan	CW	(AB)
MX	10872.2	10-1	1513	Sun	Beacon F, Vladivostok	CW	(AB-HK)
MX	10872.4	10-1	1513	Sun	Beacon M, Magadan	CW	(AB-HK)
MX	13527.7	8-1	1501	Fri	Beacon D	CW	(AB)
MX	13527.7	10-1	1523	Sun	Beacon D, Sevastopol	CW	(AB)
MX	13527.7	11-1	1051	Mon	Beacon D, Sevastopol	CW	(AB)
MX	13527.7	29-1	1415	Fri	Beacon D, Sevastopol	CW	(MPJ)
MX	13527.9	8-1	1501	Fri	Beacon S	CW	(AB)
MX	13527.9	10-1	1523	Sun	Beacon S, Sevoromorsk	CW	(AB)
MX	13527.9	11-1	1051	Mon	Beacon S, Sevoromorsk	CW	(AB)
MX	13527.9	25-1	1430	Mon	Beacon S, Severomorsk	CW	(MPJ)
MX	13527.9	29-1	1416	Fri	Beacon S, Sevoromorsk	CW	(MPJ)
MX	13528	10-1	1523	Sun	Beacon C, Moscow	CW	(AB)
MX	13528	11-1	1051	Mon	Beacon C, Moscow	CW	(AB)
MX	13528	25-1	1431	Mon	Beacon C, Moscow	CW	(MPJ)
MX	13528	29-1	1417	Fri	Beacon C, Moscow	CW	(MPJ)
MX	13528.1	13-1	1030	Wed	Beacon A, Astrakhan	CW	(AB)
MX	13528.1	23-1	0709	Sat	Beacon A, Astrakhan	CW	(AB)
MX	13528.2	26-1	0703	Tue	Beacon F, Vladivostok	CW	(AB-HK)
MX	13528.3	26-1	0703	Tue	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB-HK)
MX	13528.4	12-1	0618	Tue	Beacon M, Magadan	CW	(AB-HK)
MX	13528.4	26-1	0703	Tue	Beacon M, Magadan	CW	(AB-HK)
MX	16331.7	8-1	1501	Fri	Beacon D	CW	(AB)
MX	16331.7	11-1	1051	Mon	Beacon D, Sevastopol	CW	(AB)
MX	16331.9	8-1	1501	Fri	Beacon S	CW	(AB)
MX	16331.9	11-1	1051	Mon	Beacon S, Sevoromorsk	CW	(AB)
MX	16332	11-1	1051	Mon	Beacon C, Moscow	CW	(AB)
MX	16332.1	13-1	1030	Wed	Beacon A, Astrakhan	CW	(AB)
MX	16332.1	23-1	0709	Sat	Beacon A, Astrakhan	CW	(AB)
MX	16990	11-1	1231	Mon	Beacon C, Moscow	CW	(F5JBR)
MX	20047.7	11-1	1051	Mon	Beacon D, Sevastopol	CW	(AB)
MX	20047.9	11-1	1051	Mon	Beacon S, Sevoromorsk	CW	(AB)
MX	20048	11-1	1051	Mon	Beacon C, Moscow	CW	(AB)
MX	20048	26-1	0745	Tue	Beacon C, Moscow Russia	CW	(EW)
MX	20048.1	13-1	1030	Wed	Beacon A, Astrakhan	CW	(AB)
MX	20048.2	12-1	0618	Tue	Beacon F, Vladivostok	CW	(AB-HK)
MX	20048.2	26-1	0747	Tue	Beacon F, Vladivostok	CW	(EW)
MX	20048.3	12-1	0618	Tue	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB-HK)
POL	6836	4-1	0800	Mon	0434 00000	FSK 100/625	(AB)
POL	6836	4-1	0805	Mon	0434 00000	FSK 100/625	(AB)
POL	6836	11-1	0800	Mon	0434 00000	FSK 100/625	(AB)
POL	6836	11-1	0805	Mon	0434 00000	FSK 100/625	(AB)
POL	6836	14-1	0800	Thu	0434 00000	FSK 100/625	(AB)
POL	6836	14-1	0805	Thu	0434 00000	FSK 100/625	(AB)
POL	6836	18-1	0800	Mon	0434 00000	FSK 100/625	(AB)
POL	6836	18-1	0805	Mon	0434 00000	FSK 100/625	(AB)
POL	7499	8-1	0900	Fri	0554 00000	FSK 100/625	(AB)
POL	7499	8-1	0905	Fri	0554 00000	FSK 100/625	(AB)
POL	7499	12-1	0900	Tue	0554 00000	FSK 100/625	(AB)
POL	7499	12-1	0905	Tue	0554 00000	FSK 100/625	(AB)
POL	7499	15-1	0900	Fri	0554 00000	FSK 100/625	(AB)
POL	7499	15-1	0905	Fri	0554 00000	FSK 100/625	(AB)

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POL	7499	19-1	0900	Tue	0554 88888 88888 52581 77053 81369 ... 42195 62726 08157 88888 88888 00038 00038	FSK 100/625	(AB)
POL	7499	19-1	0905	Tue	0554 88888 88888 52581 77053 81369 ... 42195 62726 08157 88888 88888 00038 00038	FSK 100/625	(AB)
POL	7499	22-1	0900	Fri	0554 88888 88888 52581 77053 81369 ... 42195 62726 08157 88888 88888 00038 00038	FSK 100/625	(AB)
POL	7499	22-1	0905	Fri	0554 88888 88888 52581 77053 81369 ... 42195 62726 08157 88888 88888 00038 00038	FSK 100/625	(AB)
POL	7499	26-1	0900	Tue	0554 00000	FSK 100/625	(AB)
POL	7499	26-1	0905	Tue	0554 00000	FSK 100/625	(AB)
POL	7499	29-1	0900	Fri	0554 00000	FSK 100/625	(AB)
POL	7499	29-1	0905	Fri	0554 00000	FSK 100/625	(AB)
POL	7772	5-1	0630	Tue	0574 00000	FSK 100/625	(AB)
POL	7772	5-1	0635	Tue	0574 00000	FSK 100/625	(AB)
POL	7772	12-1	0630	Tue	0574 00000	FSK 100/625	(AB)
POL	7772	12-1	0635	Tue	0574 00000	FSK 100/625	(AB)
POL	7772	14-1	0630	Thu	0574 00000	FSK 100/625	(AB)
POL	7772	14-1	0635	Thu	0574 00000	FSK 100/625	(AB)
POL	7772	26-1	0630	Tue	0574 88888 88888 22937 69976 01827 ... 54909 15092 32510 88888 88888 00040 00040	FSK 100/625	(AB)
POL	7772	26-1	0635	Tue	0574 88888 88888 22937 69976 01827 ... 54909 15092 32510 88888 88888 00040 00040	FSK 100/625	(AB)
POL	7863	5-1	1150	Tue	0325 00000	FSK 100/625	(AB)
POL	7863	5-1	1155	Tue	0325 00000	FSK 100/625	(AB)
POL	7863	6-1	1150	Wed	0325 00000	FSK 100/625	(AB)
POL	7863	6-1	1155	Wed	0325 00000	FSK 100/625	(AB)
POL	7863	12-1	1150	Tue	0325 00000	FSK 100/625	(AB)
POL	7863	12-1	1155	Tue	0325 00000	FSK 100/625	(AB)
POL	7863	13-1	1150	Wed	0325 00000	FSK 100/625	(AB)
POL	7863	13-1	1155	Wed	0325 00000	FSK 100/625	(AB)
POL	7863	19-1	1150	Tue	0325 00000	FSK 100/625	(AB)
POL	7863	19-1	1155	Tue	0325 00000	FSK 100/625	(AB)
POL	7863	20-1	1150	Wed	0325 00000	FSK 100/625	(AB)
POL	7863	20-1	1155	Wed	0325 00000	FSK 100/625	(AB)
POL	7863	26-1	1150	Tue	0325 88888 88888 27610 91153 37299 ... 53970 64454 71686 88888 88888 00039 00039	FSK 100/625	(AB)
POL	7863	26-1	1155	Tue	0325 88888 88888 27610 91153 37299 ... 53970 64454 71686 88888 88888 00039 00039	FSK 100/625	(AB)
POL	7863	27-1	1150	Wed	0325 88888 88888 27610 91153 37299 ... 53970 64454 71686 88888 88888 00039 00039	FSK 100/625	(AB)
POL	7863	27-1	1155	Wed	0325 88888 88888 27610 91153 37299 ... 53970 64454 71686 88888 88888 00039 00039	FSK 100/625	(AB)
POL	9179	5-1	1610	Tue	0877 00000	FSK 100/625	(AB)
POL	9179	5-1	1615	Tue	0877 00000	FSK 100/625	(AB)
POL	9179	12-1	1610	Tue	0877 88888 88888 28030 13861 71107 ... 27748 69218 54396 88888 88888 00036 00036	FSK 100/625	(AB)
POL	9179	12-1	1615	Tue	0877 88888 88888 28030 13861 71107 ... 27748 69218 54396 88888 88888 00036 00036	FSK 100/625	(AB)
POL	9370	4-1	0845	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	4-1	0850	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	18-1	0845	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	18-1	0850	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	20-1	0845	Wed	0353 00000	FSK 100/625	(AB)
POL	9370	20-1	0850	Wed	0353 00000	FSK 100/625	(AB)
POL	9370	25-1	0845	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	25-1	0850	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	27-1	0845	Wed	0353 00000	FSK 100/625	(AB)
POL	9370	27-1	0850	Wed	0353 00000	FSK 100/625	(AB)
POL	9968	1-1	0815	Fri	0446 00000	FSK 100/625	(AB)
POL	9968	1-1	0820	Fri	0446 00000	FSK 100/625	(AB)
POL	9968	4-1	0815	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	4-1	0820	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	11-1	0815	Mon	0446 88888 88888 59899 39860 92581 ... 16424 09412 36232 88888 88888 00040 00040	FSK 100/625	(AB)
POL	9968	11-1	0820	Mon	0446 88888 88888 59899 39860 92581 ... 16424 09412 36232 88888 88888 00040 00040	FSK 100/625	(AB)
POL	9968	15-1	0815	Fri	0446 88888 88888 59899 39860 92581 ... 16424 09412 36232 88888 88888 00040 00040	FSK 100/625	(AB)
POL	9968	15-1	0820	Fri	0446 88888 88888 59899 39860 92581 ... 16424 09412 36232 88888 88888 00040 00040	FSK 100/625	(AB)
POL	9968	18-1	0815	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	18-1	0820	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	22-1	0815	Fri	0446 00000	FSK 100/625	(AB)
POL	9968	22-1	0820	Fri	0446 00000	FSK 100/625	(AB)

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POL	9968	25-1	0815	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	25-1	0820	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	29-1	0815	Fri	0446 00000	FSK 100/625	(AB)
POL	9968	29-1	0820	Fri	0446 00000	FSK 100/625	(AB)
POL	10359	1-1	0655	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	1-1	0700	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	5-1	0655	Tue	0684 88888 88888 26109 18586 86481 ... 03064 97663 52210 88888 88888 00036 00036	FSK 100/625	(AB)
POL	10359	5-1	0700	Tue	0684 88888 88888 26109 18586 86481 ... 03064 97663 52210 88888 88888 00036 00036	FSK 100/625	(AB)
POL	10359	8-1	0655	Fri	0684 message	FSK 100/625	(AB)
POL	10359	12-1	0655	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	12-1	0700	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	15-1	0655	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	15-1	0700	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	19-1	0655	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	19-1	0700	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	22-1	0655	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	22-1	0700	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	26-1	0655	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	26-1	0700	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	29-1	0655	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	29-1	0700	Fri	0684 00000	FSK 100/625	(AB)
POL	15915	10-1	1525	Sun	Polish intel	FSK 100/625	(AB)
POL	15915	10-1	2530	Sun	Polish intel	FSK 100/625	(AB)
POL	15915	11-1	1525	Mon	0221 88888 88888 47683 47579 43543 ... 49277 49217 08051 88888 88888 00040 00040	FSK 100/625	(AB)
POL	15915	11-1	1530	Mon	0221 88888 88888 47683 47579 43543 ... 49277 49217 08051 88888 88888 00040 00040	FSK 100/625	(AB)
POL	16388	5-1	0730	Tue	0433 00000	FSK 100/625	(AB)
POL	16388	5-1	0735	Tue	0433 00000	FSK 100/625	(AB)
POL	16388	19-1	0730	Tue	0433 88888 88888 65419 18092 98945 ... 17858 97150 78929 88888 88888 00038 00038	FSK 100/625	(AB)
POL	16388	19-1	0735	Tue	0433 88888 88888 65419 18092 98945 ... 17858 97150 78929 88888 88888 00038 00038	FSK 100/625	(AB)
POL	16388	26-1	0730	Tue	0433 00000	FSK 100/625	(AB)
POL	16388	26-1	0735	Tue	0433 00000	FSK 100/625	(AB)
POL	16388	28-1	0730	Thu	0433 00000	FSK 100/625	(AB)
POL	16388	28-1	0735	Thu	0433 00000	FSK 100/625	(AB)
POL	17531	26-1	1245	Tue	Polish intel	FSK 100/625	(AB)
POL	17531	26-1	1250	Tue	Polish intel	FSK 100/625	(AB)
Q26	4283	12-1	1300	Tue	Message	4+4 QPSK 75/3000 LSB	(Token)
Q26	7553	9-1	0908	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	7553	11-1	0900	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	7553	12-1	1300	Tue	Message	4+4 QPSK 75/3000 LSB	(Token)
Q26	7553	24-1	0907	Sun	Message //9156 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	7-1	0001	Thu	Message i.p.	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	8-1	1131	Fri	Started in USB but switched to LSB at 1135 UTC. Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	11-1	0002	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	12-1	0001	Tue	Message	4+4 QPSK 75/3000 USB	(JPL-HK)
Q26	8073	13-1	0001	Wed	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	15-1	1129	Fri	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	16-1	0001	Sat	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)

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Q26	8073	16-1	1131	Sat	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	19-1	0001	Tue	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	22-1	0001	Fri	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	24-1	0001	Sun	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	25-1	0003	Mon	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	27-1	1130	Wed	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9153	12-1	1300	Tue	Message	4+4 QPSK 75/3000 USB	(Token)
Q26	9156	24-1	0907	Sun	Messag //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
RADv	2820	28-1	0500	Thu	Tracking (Russian Voice)	LSB	(F5JBR)
RADv	3508	27-1	1400	Wed	Tracking (Russian Voice)	USB	(F5JBR)
RADv	3545	25-1	1422	Mon	Tracking (Russian Voice)	LSB	(F5JBR)
S06	3513	2-1	2100	Sat	614 0	USB	(HFD)
S06	4031	2-1	2000	Sat	614 0	USB	(HFD)
S06	5733	15-1	2100	Fri	761 0	USB	(HFD)
S06	7425	20-1	0530	Wed	464 38 568604	USB	(HFD)
S06	7812	15-1	2000	Fri	761 0	USB	(HFD)
S06	9069	20-1	0530	Wed	464	USB	(HFD)
S06	13469	15-1	0930	Fri	842 605 39 31965 44414 23079 ...	USB	(AB)
S06	13469	28-1	0930	Thu	842	USB	(HFD-HK)
S06	13469	28-1	0930	Thu	842 609 41 34759 52865 55868 ... 07333 55305 14419 609 41 00000	USB	(EW/AB)
S06	15721	13-1	0400	Wed	480 129 #0 727##	USB	(HFD-HK)
S06	16243	21-1	0830	Thu	842 137 40 40282 03586 86850 ... 63702 41432 02984 137 40 00000	USB	(AB)
S06	16243	22-1	0830	Fri	842 137 40 40282 03586 86850 ... 63702 41432 02984 137 40 00000	USB	(AB)
S06	16243	28-1	0830	Thu	842 609 41 34759 52865 55868 ... 07333 55305 14419 609 41 00000	USB	(EW/AB)
S06	16243	28-1	0830	Thu	842 609 41 34759	USB	(HFD-HK)
S06	16243	29-1	0830	Fri	842 609 41 34759 52865 55868 ... 07333 55305 14419 609 41 00000	USB	(AB)
S06s	5250	5-1	0700	Tue	374 510 6 14645 80477 86200 84706 42227 61735 510 6 00000	USB	(AB)
S06s	5250	12-1	0700	Tue	374 510 6 14645 80477 86200 84706 42227 61735 510 6 00000	USB	(AB)
S06s	5250	19-1	0700	Tue	374 501 6 42169 35797 33873 39235 93515 45031 501 6 00000	USB	(AB)
S06s	5660	5-1	1010	Tue	893 461 5 01405 15003 24357 60583 54545 461 5 00000	USB	(AB)
S06s	5765	21-1	0900	Thu	624 831 5 34031 33430 37536 34906 39698 831 5 00000	USB	(AB)
S06s	6315	21-1	0910	Thu	624 831 5 34031 33430 37536 34906 39698 831 5 00000	USB	(AB)
S06s	6320	5-1	0715	Tue	374 510 6 14645 80477 86200 84706 42227 61735 510 6 00000	USB	(AB)
S06s	6320	12-1	0715	Tue	374 510 6 14645 80477 86200 84706 42227 61735 510 6 00000	USB	(AB)
S06s	6320	19-1	0715	Tue	374 501 6 42169 35797 33873 39235 93515 45031 501 6 00000	USB	(AB)
S06s	6827	10-1	1030	Sun	480 357 357 46 46 61188 61188 ... 93248 93248 357 357 46 46 00000	USB	(Danix)
S06s	6845	5-1	1500	Tue	537 498 6 88997 83755 89983 34084 86339 99811 498 6 00000	USB	(AB)
S06s	6845	12-1	1500	Tue	537 498 6 88997 83755 89983 34084 86339 99811 498 6 00000	USB	(AB)
S06s	6845	26-1	1500	Tue	537 204 6 79302 53516 25616 26069 96813 14199 204 6 00000	AM	(AB/Danix)
S06s	7410	5-1	0730	Tue	427 589 6 95051 13808 71909 83981 24035 48115 589 6 00000	AM	(AB)
S06s	7410	12-1	0730	Tue	427 589 6 95051 13808 61909 83981 24035 48115 589 6 00000	AM	(AB)
S06s	7410	19-1	0730	Tue	427 850 6 46062 68672 97478 39685 30485 96632 850 6 00000	AM	(AB)
S06s	7410	26-1	0730	Tue	427 850 6 46062 68672 97478 39685 30485 96632 850 6 00000	USB	(AB)
S06s	8057	4-1	0830	Mon	371 284 5 96320 36793 53038 76342 15009 284 5 00000	USB	(AB)
S06s	8057	25-1	0830	Mon	371 256 8 37391 37446 86525 89203 33244 39054 35843 37259 256 8 00000	USB	(AB)
S06s	8085	10-1	1000	Sun	480 357 357 46 46 61188 61188 ... 93248 93248 357 357 46 46 00000	USB	(Danix)
S06s	8417	13-1	0820	Wed	471 592 6 83465 46018 37387 84234 98769 46521 592 6 00000	USB	(AB)
S06s	8417	20-1	0820	Wed	471 923 5 84498 48832 49484 49607 33446 923 5 00000	USB	(AB)
S06s	8420	11-1	1300	Mon	831 942 5 45847 23013 89758 52343 79628 942 5 00000	USB	(AB)
S06s	8420	18-1	1300	Mon	831 254 6 38311 81228 33428 93171 43979 36922 254 6 00000	USB	(AB)
S06s	8530	4-1	0840	Mon	371 284 5 96320 36793 53038 76342 15009 284 5 00000	USB	(AB)

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S06s	8530	11-1	0840	Mon	371 284 5 96320 36793 53038 76342 15009 284 5 00000	USB	(AB)
S06s	8530	18-1	0840	Mon	371 256 8 37391 37446 86525 89203 33244 39054 35843 37259 256 8 00000	USB	(AB)
S06s	8530	25-1	0840	Mon	371 256 8 37391 37446 86525 89203 33244 39054 35843 37259 256 8 00000	USB	(AB)
S06s	8812	7-1	0930	Thu	314 827 5 78493 00838 01653 85637 90337 827 5 00000	USB	(AB)
S06s	9170	5-1	1510	Tue	537 498 6 88997 83755 89983 34084 86339 99811 498 6 00000	USB	(AB)
S06s	9170	12-1	1510	Tue	537 498 6 88997 83755 89983 34084 86339 99811 498 6 00000	USB	(AB)
S06s	9170	26-1	1510	Tue	537 204 6 79302 53516 25616 26069 96813 14199 204 6 00000	AM	(AB)
S06s	9262	13-1	0830	Wed	471 592 6 83465 46018 37387 84234 98769 46521 592 6 00000	USB	(AB)
S06s	9262	20-1	0830	Wed	471 923 5 84498 48832 49484 49607 33446 923 5 00000	USB	(AB)
S06s	9510	14-1	0940	Thu	314 827 5 78493 00838 01653 85637 90337 827 5 00000	USB	(AB)
S06s	9540	7-1	0940	Thu	314 827 5 78493 00838 01653 85637 90337 827 5 00000	USB	(AB)
S06s	10635	11-1	1310	Mon	831 942 5 45847 23013 89758 52343 79628 942 5 00000	USB	(AB)
S06s	10635	18-1	1310	Mon	831 254 6 38311 81228 33428 93171 43979 36922 254 6 00000	USB	(AB)
S06s	10920	7-1	1210	Thu	425 819 6 74930 88925 77401 63789 00134 56472 819 6 00000	AM	(AB)
S06s	10920	14-1	1210	Thu	425 819 6 74930 88925 77401 63789 00134 56472 819 6 00000	USB	(AB)
S06s	10920	21-1	1210	Thu	425 801 6 48318 32229 43306 80458 36533 34067 801 6 00000	AM	(AB)
S06s	11532	12-1	0740	Tue	427 589 6 95051 13808 61909 83981 24035 48115 589 6 00000	AM	(AB)
S06s	11532	26-1	0740	Tue	427 850 6 46062 68672 97478 39685 30485 96632 850 6 00000	USB	(AB)
S06s	11780	8-1	0930	Fri	516 248 7 11171 64385 82707 06123 22536 88280 84116 248 7 00000	AM	(AB)
S06s	11780	15-1	0930	Fri	516 289 7 46062 68672 97478 39685 30485 96632 52537 289 7 00000	USB	(AB)
S06s	11830	6-1	0830	Wed	745 289 6 32183 32488 89266 49920 34969 47367 289 6 00000	USB	(AB)
S06s	11830	13-1	0840	Wed	745 289 6 32183 32488 89266 49920 34969 47367 289 6 00000	AM	(AB)
S06s	11945	5-1	0800	Tue	352 410 6 40614 77249 40678 17976 21816 42997 410 6 00000	USB	(AB)
S06s	11945	12-1	0800	Tue	352 410 6 40614 77249 40678 17976 21816 42997 410 6 00000	USB	(AB)
S06s	11945	19-1	0800	Tue	352 810 6 52401 63919 92699 14600 47248 48724 810 6 00000	USB	(AB)
S06s	11945	26-1	0800	Tue	352 810 6 52401 63919 92699 14600 47248 48754 810 6 00000	USB	(AB)
S06s	12155	7-1	1200	Thu	425 819 6 74930 88925 77401 63789 00134 56472 819 6 00000	AM	(AB)
S06s	12155	14-1	1200	Thu	425 819 6 74930 88925 77401 63789 00134 56472 819 6 00000	USB	(AB)
S06s	12155	21-1	1200	Thu	425 801 6 48318 32229 43306 80458 36533 34067 801 6 00000	AM	(AB)
S06s	12365	6-1	1000	Wed	729 536 8 33365 47183 81436 36388 94323 45547 48082 39581 536 8 00000	USB	(AB)
S06s	12365	13-1	1000	Wed	729 536 8 33365 47183 81436 36388 94323 45547 48082 39581 536 8 00000	USB	(AB)
S06s	12365	20-1	1000	Wed	729 503 6 37391 37446 86535 89203 33244 39054 503 6 00000	USB	(AB)
S06s	12365	27-1	1000	Wed	729 503 6 37391 37446 86535 89203 33244 39054 503 6 00000	AM	(AB)
S06s	12570	1-1	0940	Fri	516 248 7 11171 64385 82707 06123 22536 88280 84116 248 7 00000	AM	(AB)
S06s	12570	8-1	0940	Fri	516 248 7 11171 64385 82707 06123 22536 88280 84116 248 7 00000	AM	(AB)
S06s	12570	15-1	0940	Fri	516 289 7 46062 68672 97478 39685 30485 96632 52537 289 7 00000	USB	(AB)
S06s	12830	4-1	0910	Mon	872 941 5 65656 53735 61088 02440 59354 941 5 00000	USB	(AB)
S06s	12830	11-1	0910	Mon	872 941 5 65656 53735 61088 02440 59354 941 5 00000	USB	(AB)
S06s	12830	18-1	0910	Mon	872 914 5 31900 48366 36534 32830 48436 914 5 00000	USB	(AB)
S06s	12952	14-1	0900	Thu	167 843 5 74931 48720 75920 66839 11534 843 5 00000	AM	(AB)
S06s	12952	21-1	0900	Thu	167 298 5 92971 30490 46481 33987 37393 298 5 00000	AM	(AB)
S06s	12952	28-1	0900	Thu	167 298 5 92971 30490 46481 33987 37393 298 5 00000	AM	(AB)
S06s	13195	5-1	0810	Tue	352 410 6 40614 77249 40678 17976 21816 42997 410 6 00000	USB	(AB)
S06s	13195	12-1	0810	Tue	352 410 6 40614 77249 40678 17976 21816 42997 410 6 00000	USB	(AB)
S06s	13195	19-1	0810	Tue	352 810 6 52401 63919 92699 14600 47248 48724 810 6 00000	USB	(AB)
S06s	13195	26-1	0810	Tue	352 810 6 52401 63919 92699 14600 47248 48754 810 6 00000	USB	(AB)
S06s	13470	3-1	0630	Sun	524 913 6 09394 76911 75155 76918 97067 58604 913 6 00000	USB	(AB)
S06s	13565	14-1	0910	Thu	167 843 5 74931 48720 75920 66839 11534 843 5 00000	AM	(AB)
S06s	13565	21-1	0910	Thu	167 298 5 92971 30490 46481 33987 37393 298 5 00000	AM	(AB)
S06s	13565	28-1	0910	Thu	167 298 5 92971 30490 46481 33987 37393 298 5 00000	AM	(AB)
S06s	14280	6-1	1010	Wed	729 536 8 33365 47183 81436 36388 94323 45547 48082 39581 536 8 00000	USB	(AB)
S06s	14280	13-1	1010	Wed	729 536 8 33365 47183 81436 36388 94323 45547 48082 39581 536 8 00000	USB	(AB)
S06s	14280	20-1	1010	Wed	729 503 6 37391 37446 86535 89203 33244 39054 503 6 00000	USB	(AB)
S06s	14280	27-1	1010	Wed	729 503 6 37391 37446 86535 89203 33244 39054 503 6 00000	AM	(AB)
S06s	14675	4-1	0900	Mon	872 941 5 65656 53735 61088 02440 59354 941 5 00000	USB	(AB)
S06s	14675	11-1	0900	Mon	872 941 5 65656 53735 61088 02440 59354 941 5 00000	USB	(AB)
S06s	14675	18-1	0900	Mon	872 914 5 31900 48366 36534 32830 48436 914 5 00000	USB	(AB)
S06s	16515	3-1	0640	Sun	524 913 6 09394 76911 75155 76918 97067 58604 913 6 00000	USB	(AB)

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S11a	4828	26-1	0455	Tue	321/00	USB	(HFD)
S11a	5815	6-1	1957	Wed	372/34 Vnimanie ...	USB	(PPA)
S11a	5815	13-1	1955	Wed	371/00	USB	(MPJ)
S11a	5815	15-1	1955	Fri	371/00	USB	(MPJ)
S11a	5815	22-1	1955	Fri	371/00	USB	(MPJ)
S11a	5815	27-1	1955	Wed	371/00	USB	(AB/MPJ)
S11a	5815	29-1	1955	Fri	371/00	USB	(MPJ)
S11a	7504	1-1	0915	Fri	484/00	USB	(AB)
S11a	7504	8-1	0915	Fri	484/00	USB	(AB)
S11a	7504	12-1	0915	Tue	484/00	USB	(AB)
S11a	7504	15-1	0915	Fri	484/00	USB	(AB)
S11a	7504	19-1	0915	Tue	487/34 Vnimanie 52581 77053 81369 ... 42195 62726 08157 Vnimanie, rpt msg, konec	USB	(AB)
S11a	7504	26-1	0915	Tue	484/00	USB	(AB)
S11a	9200	5-1	1625	Tue	831/00	USB	(MPJ)
S11a	9200	9-1	1625	Sat	831/00	USB	(MPJ)
S11a	9200	12-1	1625	Tue	835/32 28030	USB	(HFD)
S11a	9200	12-1	1625	Tue	435/32 Vnimanie 28030 13861 71107 ... 27748 69218 54396 Vnimanie, rpt msg, konec	USB	(AB)
S11a	9200	30-1	1625	Sat	831/00	USB	(MPJ)
S11a	9610	1-1	1020	Fri	426/00	USB	(AB)
S11a	9610	15-1	1020	Fri	426/00	USB	(AB)
S11a	12530	4-1	1015	Mon	472/39 Vnimanie 69533 58138 99278 ... 63059 53197 99538 Vnimanie, rpt msg, konec	USB	(AB)
S11a	19099	13-1	0715	Wed	382/00	USB	(HFD)
S28	4625	7-1	1255	Thu	ZhUOZ 99547 YeVTINIYa 91317265	USB	(Priyom)
S28	4625	7-1	1555	Thu	ZhUOZ 90279 GYeL' 58703776	USB	(Priyom)
S28	4625	10-1	1238	Sun	ZhUOZ 49441 SDANNYJ 45210065	USB	(Priyom)
S28	4625	10-1	1241	Sun	ZhUOZ 25172 AGRYeKOLIT 65065058	USB	(Priyom)
S28	4625	10-1	1527	Sun	Buzzer channel marker //6998 kHz	USB	(AB)
S28	4625	11-1	1300	Mon	ZhUOZ 80919 DVUKRAN 88518222	USB	(Priyom)
S28	4625	11-1	1555	Mon	ZhUOZ 09508 OVChYeTINA 94737781 (bad audio)	USB	(Priyom)
S28	4625	11-1	1711	Mon	ZhUOZ 15121 DV??VYJ 36579328 (bad audio)	USB	(Priyom)
S28	4625	12-1	0850	Tue	1 2 3 4 5 6 7 8 9 10 Test count	USB	(Priyom)
S28	4625	14-1	0752	Thu	ZhUOZ 84548 KVINOKAIN 53437200	USB	(Priyom)
S28	4625	14-1	0959	Thu	ZhUOZ 39694 LIPAK 32264396	USB	(Priyom)
S28	4625	14-1	1116	Thu	ZhUOZ 32943 TIL'DA 82381156	USB	(Priyom)
S28	4625	14-1	1349	Thu	ZhUOZ 80474 DINGI 56770985	USB	(Priyom)
S28	4625	14-1	1434	Thu	ZhUOZ 30191 TIMYeJKA 31033945	USB	(Priyom)
S28	4625	14-1	1659	Thu	Buzzer channel marker //6698 kHz	USB	(AB)
S28	4625	21-1	0946	Thu	ZhUOZ 17021 UGLYeRODNYJ 11872569	USB	(Priyom)
S28	4625	21-1	1340	Thu	ZhUOZ 49091 AVTONOMIST 26674886 (Female talking in the background)	USB	(Priyom)
S28	4625	21-1	1346	Thu	ZhUOZ 53289 AVTONOMNYaJ 76197976 (Signal read with error)	USB	(Priyom)
S28	4625	21-1	1354	Thu	ZhUOZ 53289 AVTONOMNYJ 76197976 (Corrected signal re-sent)	USB	(Priyom)
S28	4625	22-1	1232	Fri	ZhUOZ 00238 GIRLO 56096606	USB	(Priyom)
S28	4625	22-1	1232	Fri	ZhUOZ 00238 GIRLO 56096606	USB	(Priyom)
S28	4625	22-1	1234	Fri	ZhUOZ 73469 CIRKONAT 79843662	USB	(Priyom)
S28	4625	22-1	1234	Fri	ZhUOZ 73469 CIRKONAT 79843662	USB	(Priyom)
S28	4625	25-1	0614	Mon	ZhUOZ 5537 GYeOLOGIYa	USB	(Priyom)
S28	4625	27-1	1718	Wed	ZhUOZ 6151 CYeNTIM	USB	(Priyom)
S28	4625	28-1	0400	Thu	ZhUOZ VYPADYeNIYe 2068	USB	(Priyom)
S28	4625	28-1	0402	Thu	ZhUOZ Emergency alarm command 125 (training)	USB	(Priyom)
S28	4625	28-1	1247	Thu	ZhUOZ 38433 KIZYaK 31383304	USB	(Priyom)
S28	4625	28-1	1248	Thu	ZhUOZ 49437 SIZAL' 35676945	USB	(Priyom)
S28	4625	28-1	1500	Thu	ZhUOZ 6463 FYeNOKSILYeN	USB	(Priyom)
S28	4625	28-1	1618	Thu	ZhUOZ 62951 OZORA 42785908	USB	(Priyom)
S28	4625	28-1	1624	Thu	ZhUOZ 98617 TIGRICA 04316916	USB	(Priyom)
S28	4625	28-1	1906	Thu	Buzzer channel marker	USB	(AB)
S28	4625	30-1	0524	Sat	ZhUOZ 3134 PYeNSION	USB	(Priyom)
S28	6698	14-1	1659	Thu	Buzzer channel marker //4625 kHz	USB	(AB)
S28	6998	10-1	1527	Sun	Buzzer channel marker //4625 kHz	USB	(AB)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
S28	6998	21-1	0940	Thu	ZhUOZ 04976 EGRIDIF 80227322	USB	(Priyom)
S28	6998	28-1	1906	Thu	Buzzer channel marker	USB	(AB)
S30	3657	10-1	1704	Sun	Pip channel marker	USB	(AB)
S30	3756	3-1	0456	Sun	BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR	USB	(Priyom)
S30	3756	4-1	1723	Mon	49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch	USB	(Priyom)
S30	3756	5-1	0458	Tue	Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU	USB	(Priyom)
S30	3756	5-1	1440	Tue	TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ	USB	(Priyom)
S30	3756	6-1	0501	Wed	SB7Z 'O6P Y8VM 6I2Zh 8CSchhJ 27Shch' N1DU 53OB 78MV DEAY	USB	(Priyom)
S30	3756	6-1	1617	Wed	JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4	USB	(Priyom)
S30	3756	6-1	1821	Wed	HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP	USB	(Priyom)
S30	3756	7-1	1222	Thu	8S1Shch 98169 GYeRBOPRAH 35377768	USB	(Priyom)
S30	3756	7-1	1222	Thu	Y8VM 6I2Zh 8CSchhJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI	USB	(Priyom)
S30	3756	7-1	1227	Thu	8S1Shch 22984 LOMOZUDA 25126725	USB	(Priyom)
S30	3756	7-1	1553	Thu	8S1Shch 95104 KYeRSANTIT 87652884	USB	(Priyom)
S30	3756	7-1	1626	Thu	42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh	USB	(Priyom)
S30	3756	11-1	1405	Mon	8S1Shch 03255 35930 56291 BLAGOZVUCHiYe 87336331 LAZOSKOP 58057354	USB	(Priyom)
S30	3756	11-1	1551	Mon	8S1Shch 02440 ZOVOPAYuS 70881696	USB	(Priyom)
S30	3756	11-1	1708	Mon	8S1Shch 89694 INDOL 64978555	USB	(Priyom)
S30	3756	11-1	1725	Mon	8S1Shch 84476 KONOVID 16445068	USB	(Priyom)
S30	3756	12-1	1502	Tue	HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P	USB	(Priyom)
S30	3756	12-1	1622	Tue	8S1Shch Weather warnings	USB	(Priyom)
S30	3756	12-1	1751	Tue	79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch	USB	(Priyom)
S30	3756	12-1	1751	Tue	Y8VM 6I2Zh 8CSchhJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI	USB	(Priyom)
S30	3756	13-1	0506	Wed	79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch	USB	(Priyom)
S30	3756	13-1	1455	Wed	8S1Shch 92628 KYeRNOTRAL 28444899	USB	(Priyom)
S30	3756	13-1	1500	Wed	8S1Shch 71325 KYeDROZAYaC 54366033	USB	(Priyom)
S30	3756	13-1	1654	Wed	F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG	USB	(Priyom)
S30	3756	14-1	0454	Thu	BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR	USB	(Priyom)
S30	3756	14-1	1430	Thu	8S1Shch 92916 MYeNZUL'NYJ 82780306	USB	(Priyom)
S30	3756	15-1	1852	Fri	49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch	USB	(Priyom)
S30	3756	18-1	0522	Mon	ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh	USB	(Priyom)
S30	3756	18-1	1608	Mon	'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V	USB	(Priyom)
S30	3756	18-1	1629	Mon	8S1Shch 06378 KUSTOFARS 71827358	USB	(Priyom)
S30	3756	18-1	1820	Mon	42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh	USB	(Priyom)
S30	3756	19-1	0715	Tue	INNC FY5E F61N 37CN MUDR AGDT BO6C HCLF 61HZh 8CSchhJ	USB	(Priyom)
S30	3756	19-1	1753	Tue	27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS	USB	(Priyom)
S30	3756	20-1	0530	Wed	Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch (First p	USB	(Priyom)
S30	3756	20-1	1412	Wed	DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR	USB	(Priyom)
S30	3756	20-1	1715	Wed	7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA	USB	(Priyom)
S30	3756	21-1	1428	Thu	8S1Shch 11357 KLOPOMYS 41910035	USB	(Priyom)
S30	3756	21-1	1650	Thu	V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchhJ 27Shch' N1DU 53OB 78MV	USB	(Priyom)
S30	3756	22-1	0805	Fri	8S1Shch 30378 KLYKOSchhUP 02462238	USB	(Priyom)
S30	3756	22-1	1222	Fri	8S1Shch 92888 KUPYe 13720273	USB	(Priyom)
S30	3756	22-1	1230	Fri	8S1Shch 47322 MAL'ChUGAN 82503200	USB	(Priyom)
S30	3756	22-1	1319	Fri	8S1Shch 27666 KYeTChUP 16466197	USB	(Priyom)
S30	3756	22-1	1324	Fri	8S1Shch 65651 KOPYeNGAGYeN 76185051	USB	(Priyom)
S30	3756	22-1	1808	Fri	TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3	USB	(Priyom)
S30	3756	23-1	0454	Sat	AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1	USB	(Priyom)
S30	3756	23-1	1911	Sat	61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM	USB	(Priyom)
S30	3756	24-1	0505	Sun	6I2Zh 8CSchhJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ	USB	(Priyom)
S30	3756	24-1	1422	Sun	ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO	USB	(Priyom)
S30	3756	24-1	1816	Sun	TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N	USB	(Priyom)
S30	3756	25-1	1608	Mon	PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z'	USB	(Priyom)
S30	3756	26-1	1458	Tue	53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG	USB	(Priyom)
S30	3756	26-1	1802	Tue	Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch DMC3 49FT	USB	(Priyom)
S30	3756	27-1	0536	Wed	C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh	USB	(Priyom)
S30	3756	27-1	1758	Wed	3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS	USB	(Priyom)
S30	3756	28-1	0312	Thu	VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z	USB	(Priyom)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
S30	3756	28-1	0421	Thu	8S1Shch MODULYaCIYa 4567	USB	(Priyom)
S30	3756	28-1	0431	Thu	8S1Shch MYeTODOLOG 9277	USB	(Priyom)
S30	3756	28-1	1613	Thu	8S1Shch 80622 VODOLYuB 11795177	USB	(Priyom)
S30	3756	28-1	1620	Thu	8S1Shch 21098 INKOBLYuM 04208062	USB	(Priyom)
S30	3756	28-1	1659	Thu	8S1Shch BARKOPLAV 8767	USB	(Priyom)
S30	3756	29-1	0349	Fri	8S1Shch KVVeLYJ 7957	USB	(Priyom)
S30	3756	29-1	0349	Fri	8S1Shch KVVeLYJ 7957	USB	(Priyom)
S30	3756	29-1	0417	Fri	5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM	USB	(Priyom)
S30	3756	29-1	0417	Fri	5FSShch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM	USB	(Priyom)
S30	3756	29-1	0429	Fri	8S1Shch DUShOShKAF 3596	USB	(Priyom)
S30	3756	29-1	0429	Fri	8S1Shch DUShOShKAF 3596	USB	(Priyom)
S30	3756	29-1	1512	Fri	8S1Shch ARAL'SKIJ 0638 January 29, 2016 04:29	USB	(Priyom)
S30	3756	29-1	1648	Fri	FY5E F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B	USB	(Priyom)
S30	3756	29-1	1705	Fri	8S1Shch LUGOSRUB 4318	USB	(Priyom)
S30	3756	29-1	1832	Fri	OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV	USB	(Priyom)
S30	3756	30-1	0512	Sat	81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL	USB	(Priyom)
S30	3756	31-1	0455	Sun	Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch	USB	(Priyom)
S30	3756	31-1	1419	Sun	DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N 37CN MUDR	USB	(Priyom)
S30	3756	31-1	1744	Sun	7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA	USB	(Priyom)
S30	5448	18-1	0530	Mon	8S1Shch 51480 JOTOPLYaS 90069299	USB	(Priyom)
S30	5448	20-1	0531	Wed	Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T 5FSShch 8MUO TUZR 5J7Shch (Second	USB	(Priyom)
S30	5448	21-1	0540	Thu	ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ	USB	(Priyom)
S30	5448	21-1	1320	Thu	KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27	USB	(Priyom)
S30	5448	21-1	1338	Thu	8S1Shch 56954 MODYeLIZM 02944422	USB	(Priyom)
S30	5448	25-1	0531	Mon	37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C	USB	(Priyom)
S30	5448	26-1	0547	Tue	NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU	USB	(Priyom)
S32	3828	3-1	1521	Sun	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-3	USB	(Priyom)
S32	3828	7-1	1225	Thu	AL'FA-45 07045 VTUZ 65781025	USB	(Priyom)
S32	3828	7-1	1231	Thu	AL'FA-45 02529 MATChOLYaZG 24958270	USB	(Priyom)
S32	3828	7-1	1253	Thu	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34	USB	(Priyom)
S32	3828	7-1	1420	Thu	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07	USB	(Priyom)
S32	3828	7-1	1557	Thu	AL'FA-45 89240 GORISPOLKOM 24982157 with S30 in the background	USB	(Priyom)
S32	3828	10-1	1703	Sun	Squeaky Wheel channel marker	USB	(AB)
S32	3828	11-1	1414	Mon	AL'FA-45 80122 ARAVITYaNKA 71983811	USB	(Priyom)
S32	3828	11-1	1556	Mon	AL'FA-45 37869 BOKOZhGUT 62841211. S30 in the background	USB	(Priyom)
S32	3828	11-1	1713	Mon	AL'FA-45 18730 KUPYeChYeSKIJ 64243496	USB	(Priyom)
S32	3828	11-1	1730	Mon	AL'FA-45 53161 BUYeKOZAGS 15341581	USB	(Priyom)
S32	3828	11-1	1734	Mon	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 STOROZh-62 NYeVKA-2	USB	(Priyom)
S32	3828	11-1	1756	Mon	RUZh'E-26 BIZON-64 PYeSOChNYJ-21 ShULER-60 PENZA-07 KURGAN-40 DUBL	USB	(Priyom)
S32	3828	13-1	1502	Wed	AL'FA-45 89777 MARKSISTKA 58490017	USB	(Priyom)
S32	3828	13-1	1509	Wed	AL'FA-45 02800 BANKOSLOJ 86787656	USB	(Priyom)
S32	3828	14-1	1600	Thu	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 RUZh'E-26 BIZON-6	USB	(Priyom)
S32	3828	14-1	1600	Thu	STOROZh-62 NYeVKA-26 KARTA-11 UTYoS-94 KOVBOJ-39 RUZh'E-26 BIZON-6	USB	(Priyom)
S32	3828	18-1	1604	Mon	SLIVA-94 OTPOR-89 ShULER-60 STAZHER-29 ZASLONKA-27 STOROZh-62	USB	(Priyom)
S32	3828	18-1	1636	Mon	AL'FA-45 00569 KRYePOPLAC 07014452	USB	(Priyom)
S32	3828	18-1	1736	Mon	NYeVKA-26 YaHTA-94 UTYoS-94 ALEUT-09 DZhIGIT-46	USB	(Priyom)
S32	3828	22-1	1323	Fri	AL'FA-45 93825 BARDOFOT 99370220	USB	(Priyom)
S32	3828	22-1	1328	Fri	AL'FA-45 25635 KOZYR' 14403219	USB	(Priyom)
S32	3828	25-1	0441	Mon	AL'FA-45 96664 NYeUSTANNYJ 87964311 with S30 in the background	USB	(Priyom)
S32	3828	25-1	1506	Mon	AL'FA-45 35212 NADShaHTNYJ 68290348	USB	(Priyom)
S32	3828	25-1	1509	Mon	AL'FA-45 83193 DUVROPAYuS 95986875	USB	(Priyom)
S32	3828	25-1	1608	Mon	SLIVA-94 OTPOR-89 ShULER-60 STAZHER-29 ZASLONKA-27 STOROZh-62 RYeZ	USB	(Priyom)
S32	3828	26-1	0346	Tue	AL'FA-45 41227 BYeZVYeRNYJ 59851246 with S30 in the background	USB	(Priyom)
S32	3828	26-1	0354	Tue	AL'FA-45 67116 LIDSOZLAK 42014341 with S30 in the background	USB	(Priyom)
S32	3828	26-1	0359	Tue	NYeVKA-26 YaHTA-94 UTYoS-94 ALEUT-09 ROSA-64 DZhIGIT-46 BIZON-64 P	USB	(Priyom)
S32	3828	26-1	0359	Tue	AL'FA-45 03263 GRACHOSHNYeK 79184962 with S30 in the background	USB	(Priyom)
S32	3828	27-1	1418	Wed	BIZON-64 PYeSOChNYJ-21 LANDYSh-74 DUBLYoR-68 PYeNZA-07 KURGAN-40	USB	(Priyom)
S32	3828	27-1	1529	Wed	AL'FA-45 98131 MUZYKANTSha 32972058	USB	(Priyom)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
S32	3828	27-1	1651	Wed	RYeZINA-38 KOVBOJ-39 STUPA-32 KARTA-11 FONTAN-34 RUZh'E-26	USB	(Priyom)
S32	3828	27-1	1710	Wed	AL'FA-45 89713 KRABONyEUCH 14339677	USB	(Priyom)
S32	3828	27-1	1714	Wed	AL'FA-45 95116 ZAMYeRZAYuShchIJ 85643541	USB	(Priyom)
S32	3828	27-1	1805	Wed	AL'FA-45 70239 16981 DYuJMOPRUS 01754753	USB	(Priyom)
S32	3828	27-1	1806	Wed	AL'FA-45 60992 28004 DYuJMOPRUS 04754753 repeat of previous signal	USB	(Priyom)
S32	3828	27-1	1828	Wed	AL'FA-45 79157 YeHIDNYJ 45282887	USB	(Priyom)
S32	3828	27-1	1859	Wed	AL'FA-45 59155 LYeSOChAS 21900976	USB	(Priyom)
S32	3828	28-1	0424	Thu	AL'FA-45 MODULYaCIYa 4567 Relay of S30	USB	(Priyom)
S32	3828	28-1	0432	Thu	AL'FA-45 MYeTODOLOG 9277 Relay of S30	USB	(Priyom)
S32	3828	29-1	0429	Fri	AL'FA-45 DUHOSHkAF 3596	USB	(Priyom)
S32	3828	29-1	0429	Fri	AL'FA-45 DUHOSHkAF 3596 Relay of S30	USB	(Priyom)
S32	3828	31-1	1543	Sun	NYeVKA-26 ALEUT-09 SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA	USB	(Priyom)
S32	5473	21-1	1306	Thu	NYeVKA-26 YaHTA-94 UTyoS-94 ALEUT-09 DZhIGIT-46	USB	(Priyom)
S32	5473	21-1	1343	Thu	AL'FA-45 43811 VOSSTANIYe 31209501	USB	(Priyom)
S32	5473	21-1	1434	Thu	AL'FA-45 54355 IRAKOLAOS 99893800	USB	(Priyom)
S32	5473	22-1	0809	Fri	AL'FA-45 75835 MYeROChNYJ 36907729	USB	(Priyom)
S32	5473	22-1	1226	Fri	AL'FA-45 84529 KARIOGORN 29150219	USB	(Priyom)
S32	5473	22-1	1234	Fri	AL'FA-45 85677 OGITOSHkYeT 85003464 with S30 in the background	USB	(Priyom)
S32	5473	29-1	0701	Fri	NYeVKA-26 YaHTA-94 UTyoS-94 ALEUT-09 ROSA-64 DZhIGIT-46	USB	(Priyom)
S32	7009	14-1	0759	Thu	AL'FA-45 09746 BRyEDOLOG 25235875	USB	(Priyom)
S32	7009	14-1	0808	Thu	ROSA-64 DZhIGIT-46 OTPOR-89 YaHTA-94 FONTAN-34 KURGAN-40 DUBLYoR-6	USB	(Priyom)
S32	7009	14-1	1000	Thu	AL'FA-45 30119 OBSYPANIYe 15004579	USB	(Priyom)
S32	7009	14-1	1120	Thu	AL'FA-45 40771 ZAJMORYeJD 43235436	USB	(Priyom)
S32	7009	14-1	1351	Thu	AL'FA-45 90163 MASTYeROK 21459856	USB	(Priyom)
S3850	3850	11-1	1719	Mon	BARON-78 25309 RYeNTNYJ 29447935	USB	(Priyom)
S3850	3850	11-1	1734	Mon	BARON-78 94225 LARGA 45460441 Sent for Tros-28, signal receiving c	USB	(Priyom)
S3850	3850	11-1	1737	Mon	BARON-78 KOVBOJ-35 test count and test	USB	(Priyom)
S3850	3850	13-1	0406	Wed	BARON-78 ZUBILO-08 POKOS-35 ARHIV-62 VYeKTORe-70 PIKYeT-80 LAGYeR'-	USB	(Priyom)
S3850	3850	13-1	1502	Wed	BARON-78 14923 KOFYeKTOMIN 73147254	USB	(Priyom)
S3850	3850	13-1	1509	Wed	BARON-78 90699 PROVOZhANIYe 52490334. Sent for Tros-28 in urgency	USB	(Priyom)
S3850	4940	12-1	0611	Tue	VYeTKA-42 TAMAN'-11 KUPLYeT-11 ALYeUT-11 KRUG-31 TULA-86 POLYyS-55	USB	(Priyom)
S4525	4524	7-1	2010	Thu	Marker (dash)	USB	(AB)
S4525	4524	10-1	1526	Sun	Channel marler (dash)	USB	(AB)
S4525	4524	14-1	1700	Thu	Channel marker (dash)	USB	(AB)
S4525	4524	28-1	1907	Thu	Channel marker (dash)	USB	(AB)
S5292	5292	11-1	2107	Mon	Defective marker D sending badly formed S	MX	(MPJ)
S5292	5292	12-1	0807	Tue	Marker D	CW	(AB)
S5292	5292	14-1	1431	Thu	Marker D	USB	(AB)
S5292	5292	20-1	0830	Wed	BARZHA-08 90183 BYLINA 53579564	USB	(Priyom)
S5292	5292	20-1	1316	Wed	BOYeC-43 73091 POVYeRIYe 54689654. Count before the message	USB	(Priyom)
S5292	5292	26-1	0728	Tue	VIZIR-21 47592 AGITPUNKT 42369980	USB	(Priyom)
S5292	5292	26-1	1318	Tue	TRYeL'-31 38740 IZBIRATYeL'NOST' 53258579	USB	(Priyom)
S5292	5292	28-1	1907	Thu	Channel marker D	USB	(AB)
S6930	6998	28-12-2015	0907	Mon	KATOK-65 50800 NISha 32237844. Katok-65 on the wrong freq!	USB	(Priyom)
UM02	10470	11-1	0129	Mon	VVV KLF KLF KLF QSV. VVV CQ DE YRM QSV K. ZNN VVV ROZ	CW	(JPL-HK)
UM02	10470	6-1	0129	Wed	VVVV CQ CQ CQ DE YRM YRM YRM	CW	(JPL-HK)
UM02	10470	7-1	0132	Thu	VV VVV V KLF. CQ CQ CQ DE YRM YRM QSV	CW	(JPL-HK)
UM02	10470	9-1	0127	Sat	VVV CQ DE YRM QSV K	CW	(JPL-Sib)
UM02	10470	16-1	0131	Sat	VVV CQ DE YRM QSV K	CW	(JPL-HK)
UM02	10470	22-1	0132	Fri	CQ DE YRM QSV K. VVV ROZ ROZ XRJ ZNN VA	CW	(JPL-HK)
UM02	10470	23-1	0126	Sat	VVV. 4OI 4OI. V QV QSV K. QSV QSV K. QSV K. CCCC VQCCQ CQ CQ QSV K. VVV ZAN ZAN VA VA	CW	(JPL-HK)
UM02	10470	28-1	0132	Thu	CQ DE YRM QSV K. ROZ KLF ZNN etc	CW	(JPL-Sib)
UM02	10470	29-1	0134	Fri	i.p. QSV K. ROZ ROZ QSV K ROZ ROZ CQ DE YRM VVV QSV K etc	CW	(JPL-HK)
UM02	10470	30-1	0132	Sat	i.p. QSV K. VVV CQ (x3) DE YRM (x2) ZAN ZAN VA I. ROZ (Extremely weak in the back-ground)	CW	(JPL-HK)
UM10	3226	7-1	2120	Thu	10-mins net: U34D	CW	(JPL-HK)
UM10	3226	9-1	1430	Sat	10-mins net: U34D	CW	(JPL-Sib)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
UM10	3326	16-1	1225	Sat	10-mins net: U34D //4112 kHz	CW	(JPL-HK)
UM10	3326	18-1	1752	Mon	10-mins net: U34D	CW	(JPL-Sib)
UM10	3326	22-1	1556	Fri	10-minutes net: U34D	CW	(JPL-Sib)
UM10	3326	22-1	1623	Fri	10-minutes net: U34D	CW	(JPL-Sib)
UM10	3326	24-1	2157	Sun	10 mins net: U34D	CW	(JPL-Sib)
UM10	3326	25-1	1758	Mon	10-mins net: U34D	CW	(JPL-Sib)
UM10	3705	19-1	1614	Tue	10-mins net: OBCD (new callsign and new freq)	CW	(JPL-Sib)
UM10	3718	22-1	1543	Fri	10-minutes net: 7CJK (new freq and new time slots)	CW	(JPL-Sib)
UM10	3718	22-1	1610	Fri	10-minutes net: 7CJK (new freq and new time slots)	CW	(JPL-Sib)
UM10	3718	26-1	1713	Tue	10-mins net: 7CJK	CW	(JPL-Sib)
UM10	4112	16-1	1225	Sat	10-mins net: U34D //3326 kHz	CW	(JPL-HK)
UM10	4112	19-1	2121	Tue	10-mins net: U34D	CW	(JPL-Sib)
V07	06007	3-1	0100	Sun	661 0	USB	(HFD)
V07	12137	24-1	0100	Sun	661 661 661 1 339 85 70002 37538 13784 ... 15138 21834 75373 000 000	USB	(Dan)
V07	14637	3-1	0120	Sun	661 0	USB	(HFD)
V07	14637	3-1	0120	Sun	661 661 661 000	USB	(Dan)
V07	14637	10-1	0120	Sun	661 661 661 000	USB	(Dan)
V07	14637	17-1	0120	Sun	661 661 661 000	USB	(Dan)
V07	14637	24-1	0100	Sun	661 661 661 1 339 85 70002 37538 13784 ... 15138 21834 75373 000 000	USB	(Dan)
V07	14637	31-1	0120	Sun	661 661 661 000	USB	(Dan)
V07	16037	3-1	0100	Sun	661 661 661 000	USB	(Dan)
V07	16037	10-1	0100	Sun	661 661 661 000	USB	(Dan)
V07	16037	17-1	0100	Sun	661 661 661 000	USB	(Dan)
V07	16037	24-1	0100	Sun	661 661 661 1 339 85 70002 37538 13784 ... 15138 21834 75373 000 000	USB	(Dan)
V07	16037	31-1	0100	Sun	661 661 661 000	USB	(Dan)
V13	7502	1-1	1200	Fri	New Star #4	AM	(Danix/Cornel)
V13	7502	4-1	1204	Mon	New Star #4 i.p.	AM	(AB-HK)
V13	7502	8-1	1300	Fri	New Star #4	AM	(AB-HK)
V13	7502	9-1	1200	Sat	New Star #4	AM	(AB-HK)
V13	7502	9-1	1300	Sat	New Star #4	AM	(AB-HK)
V13	7502	13-1	1200	Wed	New Star #4	AM	(AB-HK)
V13	7502	13-1	1300	Wed	New Star #4	AM	(AB-HK)
V13	7502	14-1	1200	Thu	New Star #4	AM	(AB-HK)
V13	7502	14-1	1305	Thu	New Star #4 i.p.	AM	(AB-HK)
V13	7502	15-1	1200	Fri	New Star #4	AM	(AB-HK)
V13	7502	18-1	1200	Mon	New Star #4	AM	(AB-HK)
V13	7502	18-1	1305	Mon	New Star #4. Late start	AM	(AB-HK)
V13	7502	20-1	1200	Wed	New Star #4	AM	(AB-HK)
V13	7502	20-1	1300	Wed	New Star #4	AM	(AB-HK)
V13	7502	21-1	1200	Thu	New Star #4	AM	(AB-HK)
V13	7502	21-1	1300	Thu	New Star #4	AM	(AB-HK)
V13	7502	22-1	1210	Fri	New Star #4 i.p.	AM	(AB-HK)
V13	7502	22-1	1300	Fri	New Star #4	AM	(AB-HK)
V13	7502	23-1	1300	Sat	New Star #4	AM	(AB-HK)
V13	7502	25-1	1200	Mon	New Star #4	AM	(AB-HK)
V13	7502	25-1	1300	Mon	New Star #4	AM	(AB-HK)
V13	7502	28-1	1200	Thu	New Star #4	AM	(AB-HK)
V13	7502	28-1	1300	Thu	New Star #4	AM	(AB-HK)
V13	7502	30-1	1200	Sat	New Star #4	AM	(AB-HK)
V13	7502	31-1	1200	Sun	New Star #4	AM	(AB-HK)
V13	9522	12-1	0600	Tue	New Star #4	USB	(AB-HK)
V13	9522	13-1	0517	Wed	New Star #4 i.p.	USB	(AB-HK)
V13	9522	13-1	0600	Wed	New Star #4	USB	(AB-HK)
V13	9522	14-1	0502	Thu	New Star #4 i.p.	USB	(AB-HK)
V13	9522	14-1	0611	Thu	New Star #4 i.p.	USB	(AB-HK)
V13	9522	15-1	0500	Fri	New Star #4	USB	(AB-HK)
V13	9522	15-1	0600	Fri	New Star #4	USB	(AB-HK)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
V13	9522	16-1	0600	Sat	New Star #4	USB	(AB-HK)
V13	9522	18-1	0600	Mon	New Star #4	USB	(AB-HK)
V13	9522	22-1	0618	Fri	New Star #4 i.p.	USB	(AB-HK)
V13	9522	29-1	0600	Fri	New Star #4	USB	(AB-HK)
V13	9522	30-1	0600	Sat	New Star #4	USB	(AB-HK)
V13	15250	9-1	0700	Sat	New Star #3	AM	(AB-HK)
V13	15250	9-1	0800	Sat	New Star #3	AM	(AB-HK)
V13	15250	10-1	0700	Sun	New Star #3	AM	(AB-HK)
V13	15250	10-1	0800	Sun	New Star #3	AM	(AB-HK)
V13	15250	12-1	0700	Tue	New Star #3	USB	(AB-HK)
V13	15250	13-1	0800	Wed	New Star #3	USB	(AB-HK)
V13	15250	14-1	0700	Thu	New Star #3	USB	(AB-HK)
V13	15250	14-1	0812	Thu	New Star #3 i.p.	USB	(AB-HK)
V13	15250	15-1	0700	Fri	New Star #3	USB	(AB-HK)
V13	15250	15-1	0800	Fri	New Star #3	USB	(AB-HK)
V13	15250	18-1	0700	Mon	New Star #3	USB	(AB-HK)
V13	15250	19-1	0700	Tue	New Star #3	USB	(AB-HK)
V13	15250	19-1	0800	Tue	New Star #3	USB	(AB-HK)
V13	15250	20-1	0700	Wed	New Star #3	USB	(AB-HK)
V13	15250	20-1	0800	Wed	New Star #3	USB	(AB-HK)
V13	15250	22-1	0700	Fri	New Star #3	USB	(AB-HK)
V13	15250	23-1	0700	Sat	New Star #3	USB	(AB-HK)
V13	15250	23-1	0800	Sat	New Star #3	USB	(AB-HK)
V13	15250	27-1	0800	Wed	New Star #3	USB	(AB-HK)
V13	15250	28-1	0700	Thu	New Star #3	USB	(AB-HK)
V13	15250	29-1	0700	Fri	New Star #3	USB	(AB-HK)
V13	15250	30-1	0700	Sat	New Star #3	USB	(AB-HK)
V13	15250	30-1	0800	Sat	New Star #3	USB	(AB-HK)
V13	15388	13-1	0400	Wed	New Star #2	USB	(HFD-HK)
V26	4283	12-1	1309	Tue	yl/CC 3f, broken English letters, end 1344z	LSB	(Token)
V26	7553	11-1	0922	Mon	Messages	USB	(JPL-HK)
V26	7553	12-1	1309	Tue	yl/CC 3f, broken English letters, end 1344z	AM	(Token)
V26	8073	4-1	0022	Mon	Same message as M95. Male operator	USB	(JPL-HK)
V26	8073	7-1	0016	Thu	Message. Female operator	USB	(JPL-HK)
V26	8073	8-1	1130	Fri	Callup. Male operator	USB	(JPL-HK)
V26	8073	8-1	1157	Fri	Repeats M95/Q26 messages. Female operator	USB	(JPL-HK)
V26	8073	11-1	0001	Mon	Voice callup. Female operator	USB	(JPL-HK)
V26	8073	13-1	0001	Wed	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	16-1	0001	Sat	Callup. Male operator	USB	(JPL-HK)
V26	8073	16-1	1128	Sat	Callup. Male operator	USB	(JPL-HK)
V26	8073	19-1	0001	Tue	Callup. Male operator	USB	(JPL-HK)
V26	8073	24-1	0001	Sun	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	24-1	0019	Sun	Male operator. Repeats M95/Q26 message	USB	(JPL-HK)
V26	8073	24-1	1204	Sun	Female operator. Repeats M95 message	USB	(JPL-HK)
V26	8073	25-1	0001	Mon	Callup. Male operator	USB	(JPL-HK)
V26	8073	27-1	1129	Wed	Callup in voice, male operator	USB	(JPL-HK)
V26	8073	29-1	0017	Fri	Message. Male operator	USB	(MPJ)
V26	9153	12-1	1100	Tue	i.p. female operator	AM	(EW/AB)
V26	9153	12-1	1309	Tue	yl/CC 3f, broken English letters, end 1344z	USB	(Token)
V26	9153	20-1	1030	Wed	i.p. Female operator	LSB	(NC)
V28	3080	21-1	0930	Thu	Transmitting time: 0937-0947 UTC. 3277//3690//3080 kHz	USB	(BCL)
V28	3083	22-1	0931	Fri	Transmitting time: 0931-0939 UTC. 3083//3156//3689//3277 kHz	USB	(BCL)
V28	3156	22-1	0931	Fri	Transmitting time: 0934-0943 UTC. 3083//3156//3689//3277 kHz	USB	(BCL)
V28	3277	21-1	0930	Thu	Transmitting time: 0930-0940 UTC. 3277//3690//3080 kHz	USB	(BCL)
V28	3277	22-1	0931	Fri	Transmitting time: 0928-0939 UTC. 3083//3156//3689//3277 kHz	USB	(BCL)
V28	3689	22-1	0931	Fri	Transmitting time: 0929-0938 UTC. 3083//3156//3689//3277 kHz	USB	(BCL)
V28	3690	21-1	0930	Thu	Transmitting time: 0930-0940 UTC. 3277//3690//3080 kHz	USB	(BCL)
VC01	5006	22-1	1301	Fri	Chinese Robot i.p.	USB	(AB-HK)

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VC01	5006	23-1	1258	Sat	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	24-1	1255	Sun	Chinese Robot i.p.	USB	(Nico-HK)
VC01	5006	25-1	1229	Mon	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	25-1	1327	Mon	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	26-1	1202	Tue	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	26-1	1307	Tue	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	28-1	1210	Thu	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	28-1	1306	Thu	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	30-1	1202	Sat	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	31-1	1203	Sun	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	31-1	1300	Sun	Chinese Robot i.p.	USB	(AB-HK)
VC01	7506	8-1	1302	Fri	Chinese Robot	LSB	(AB-HK)
VC01	7506	9-1	1200	Sat	Chinese Robot	LSB	(AB-HK)
VC01	7506	9-1	1300	Sat	Chinese Robot	LSB	(AB-HK)
VC01	7506	11-1	1101	Mon	Chinese Robot	LSB	(AB-HK)
VC01	7506	13-1	1200	Wed	Chinese Robot	LSB	(AB-HK)
VC01	7506	13-1	1300	Wed	Chinese Robot	LSB	(AB-HK)
VC01	7506	15-1	1200	Fri	Chinese Robot	LSB	(AB-HK)
VC01	7506	18-1	1200	Mon	Chinese Robot	LSB	(AB-HK)
VC01	7506	18-1	1300	Mon	Chinese Robot	LSB	(AB-HK)
VC01	7506	20-1	1200	Wed	Chinese Robot i.p.	LSB	(AB-HK)
VC01	7506	20-1	1300	Wed	Chinese Robot i.p.	LSB	(AB-HK)
VC01	7506	24-1	1255	Sun	Chinese Robot i.p.	LSB	(Nico-HK)
VC01	7506	25-1	1229	Mon	Chinese Robot i.p.	LSB	(AB-HK)
VC01	7506	28-1	1210	Thu	Chinese Robot i.p.	LSB	(AB-HK)
VC01	7506	30-1	1202	Sat	Chinese Robot i.p.	LSB	(AB-HK)
VC01	7506	31-1	1203	Sun	Chinese Robot i.p.	LSB	(AB-HK)
VC01	7506	31-1	1300	Sun	Chinese Robot i.p.	LSB	(AB-HK)
VC01	9209	18-1	2345	Mon	Chinese Robot i.p.	USB	(NC-KOR)
VC01	9209	20-1	0808	Wed	Chinese Robot i.p.	USB	(AB-HK)
VC01	9209	20-1	1019	Wed	Chinese Robot i.p.	USB	(NC)
VC01	9209	21-1	0154	Thu	Chinese Robot i.p.	USB	(NC)
VC01	9209	22-1	0623	Fri	Chinese Robot i.p.	USB	(AB-HK)
VC01	9209	25-1	0626	Mon	Chinese Robot i.p.	USB	(AB-HK)
VC01	9209	26-1	0700	Tue	Chinese Robot i.p.	USB	(AB-HK)
VC01	9209	27-1	0703	Wed	Chinese Robot i.p.	USB	(AB-HK)
VC01	9209	28-1	0703	Thu	Chinese Robot i.p.	USB	(AB-HK)
VC01	9209	29-1	0603	Fri	Chinese Robot i.p.	USB	(AB-HK)
VC01	9209	30-1	0604	Sat	Chinese Robot i.p.	USB	(AB-HK)
VC01	9209	30-1	0800	Sat	Chinese Robot i.p.	USB	(AB-HK)
X06	6879	29-1	1410	Fri	Mazielka. Sequence: 124536	MFSK	(Sch)
X06	9106	28-1	1616	Thu	Mazielka. Sequence: 564213	MFSK	(PUK)
X06	10181	17-1	1317	Sun	Mazielka. Sequence: 452163	MFSK	(Danix)
X06	10214	14-1	1517	Thu	Mazielka. Sequence: 263145	MFSK	(PUK)
X06	10214	28-1	1503	Thu	Mazielka. Sequence: 263145	MFSK	(PUK)
X06	10535	28-1	1621	Thu	Mazielka. Sequence: 564213	MFSK	(PUK)
X06	12157	19-1	0901	Tue	Mazielka. Sequence: 165423	MFSK	(PUK)
X06	13369	13-1	0840	Wed	Mazielka. Sequence: 412356	MFSK	(PUK)
X06	13423	11-1	0946	Mon	Mazielka. Sequence: 421635	MFSK	(F5JBR)
X06	13423	11-1	0946	Mon	Mazielka. Sequence: 412635	MFSK	(F5JBR)
X06	13481	17-1	1307	Sun	Mazielka. Sequence: 452163	MFSK	(Danix)
X06	13517	25-1	0934	Mon	Mazielka. Sequence: 463125	MFSK	(AAI)
X06	14358	19-1	1001	Tue	Mazielka. Sequence: 154263	MFSK	(PUK)
X06	14379	13-1	0838	Wed	Mazielka. Sequence: 521634	MFSK	(AB)
X06	14419	28-1	0759	Thu	Mazielka. Sequence: 521634	MFSK	(PUK)
X06	14501	15-1	1049	Fri	Mazielka. Sequence: 361245	MFSK	(PUK)
X06	14501	15-1	1109	Fri	Mazielka. Sequence: 361245	MFSK	(AAI)
X06	14631	20-1	0925	Wed	Mazielka. Sequence: 362154	MFSK	(PUK)

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X06	14631	20-1	0929	Wed	Mazielka. Sequence: 362154	MFSK	(AAI)
X06	14655	13-1	0754	Wed	Mazielka. Sequence: 164253	MFSK	(PUK)
X06	14863	29-1	1105	Fri	Mazielka. Sequence: 615243	MFSK	(PUK)
X06	14865	24-1	1138	Sun	Mazielka. Sequence: 261453	MFSK	(PUK)
X06	14944	27-1	1159	Wed	Mazielka. Sequence: 621543	MFSK	(Sch)
X06	14947	31-1	0800	Sun	Mazielka. Sequence: 351264	MFSK	(PUK)
X06	15687	19-1	0948	Tue	Mazielka. Sequence: 154263	MFSK	(PUK)
X06	15878	13-1	1055	Wed	Mazielka. Sequence: 621543	MFSK	(PUK)
X06	15878	13-1	1122	Wed	Mazielka. Sequence: 621543	MFSK	(PUK)
X06	16115	20-1	1105	Wed	Mazielka. Sequence: 215346	MFSK	(PUK)
X06	16116	13-1	0851	Wed	Mazielka. Sequence: 134265	MFSK	(PUK)
X06	16153	14-1	0814	Thu	Mazielka. Sequence: 153624	MFSK	(AAI)
X06	16153	28-1	0803	Thu	Mazielka. Sequence: 153624	MFSK	(PUK)
X06	17430	20-1	0943	Wed	Mazielka. Sequence: 214356	MFSK	(PUK)
X06	17430	20-1	0948	Wed	Mazielka. Sequence: 214356	MFSK	(AAI)
X06	18060	26-1	0920	Tue	Mazielka. Sequence: 463125	MFSK	(PUK)
X06	18197	15-1	0925	Fri	Mazielka. Sequence: 645321	MFSK	(PUK)
X06	18206	19-1	0917	Tue	Mazielka. Sequence: 246531	MFSK	(PUK)
X06	18575	21-1	1235	Thu	Mazielka. Sequence: 352416	MFSK	(PUK)
X06	18575	21-1	1238	Thu	Mazielka	MFSK	(MCO)
X06	18660	13-1	1101	Wed	Mazielka. Sequence: 621543	MFSK	(PUK)
X06	20950	13-1	0810	Wed	Mazielka. Sequence: 435621	MFSK	(PUK)
X06b	8194	17-1	1739	Sun	Mazielka. Sequence: 1--6--	MFSK	(Sch)
X06b	11123	2-1	0837	Sat	Mazielka. Sequence: 1-6- with some interference from the E07a test tones	MFSK	(AB)
X06b	11123	2-1	0841	Sat	Mazielka. Sequence: 1-6-	MFSK	(AB)
X06b	15978	20-1	0745	Wed	Mazielka. Sequence: 1--6--	MFSK	(AB)
X06b	16138	17-1	1241	Sun	Mazielka. Sequence: 1--6--	MFSK	(Sch)
X06b	16167	8-1	1252	Fri	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Sch)
X06b	16167	8-1	1255	Fri	Mazielka. Sequence: 1--6-- before XPA2	MFSK	(Sch)
XPA	5391	5-1	1940	Tue	msg	MFSK-20/10Bd	(HFD)
XPA	5391	7-1	1940	Thu	873 873 873 000 07947 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	5391	12-1	1940	Tue	873 1 08553 xxxx 80170 41257 35540 79400 98657 ... 06043 46851 46768 91746 44675	MFSK-20/10bd	(MPJ)
XPA	5391	14-1	1940	Thu	873 1 08563 00169 80170 41257 35540 ...	MFSK-20/10bd	(MPJ)
XPA	5391	19-1	1940	Tue	873 1 07039 00245 76195 ... 78618 58538 24142	MFSK-20/10Bd	(AB/PPA)
XPA	5391	19-1	1940	Tue	873 1 07039 00245 76195 ... 78618 58538 24142	MFSK-20/10Bd	(AB/MPJ)
XPA	5391	28-1	1940	Thu	873 873 873 000 04638 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	6791	5-1	1920	Tue	msg	MFSK-20/10Bd	(HFD)
XPA	6791	7-1	1920	Thu	873 873 873 000 07947 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	6791	19-1	1920	Tue	873 1 07039 00245 76195 ... 78618 58538 24142	MFSK-20/10Bd	(AB)
XPA	6791	19-1	1920	Tue	873 1 07039 00245 76195 ... 78618 58538 24142	MFSK-20/10Bd	(AB)
XPA	6791	28-1	1920	Thu	873 873 873 000 04638 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	7891	7-1	1900	Thu	873 873 873 000 07947 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	7891	19-1	1900	Tue	873 1 07039 00245 76195 ... 78618 58538 24142	MFSK-20/10Bd	(AB)
XPA	7891	19-1	1900	Tue	873 1 07039 00245 76195 ... 78618 58538 24142	MFSK-20/10Bd	(AB)
XPA	7891	28-1	1900	Thu	873 873 873 000 04638 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9108	2-1	0700	Sat	192 192 192 000 02417 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9108	6-1	0700	Wed	192 192 192 000 02839 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9108	9-1	0700	Sat	192 192 192 000 03338 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9108	13-1	0700	Wed	192 1 02817 00109 86678 ... 21660 08471 76306	MFSK-20/10Bd	(AB/HFD)
XPA	9108	16-1	0700	Sat	192 1 02817 00109 86678 ... 21660 08471 76306	MFSK-20/10Bd	(AB)
XPA	9108	20-1	0700	Wed	192 192 192 000 09592 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9108	23-1	0700	Sat	192 192 192 000 07814 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9108	27-1	0700	Wed	192 1 01849 00167 78965 ... 90285 14182 47335	MFSK-20/10Bd	(AB)
XPA	9108	30-1	0700	Sat	192 1 01849 00167 78965 ... 90285 14182 47335	MFSK-20/10Bd	(AB)
XPA	10908	2-1	0720	Sat	192 192 192 000 02417 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10908	6-1	0720	Wed	192 192 192 000 02839 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10908	9-1	0720	Sat	192 192 192 000 03338 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10908	13-1	0720	Wed	192 1 02817 00109 86678 ... 21660 08471 76306	MFSK-20/10Bd	(AB/HFD)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
XPA	10908	16-1	0720	Sat	192 1 02817 00109 86678 ... 21660 08471 76306	MFSK-20/10Bd	(AB)
XPA	10908	20-1	0720	Wed	192 192 192 000 09592 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10908	23-1	0720	Sat	192 192 192 000 07814 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10908	27-1	0720	Wed	192 1 01849 00167 78965 ... 90285 14182 47335	MFSK-20/10Bd	(AB)
XPA	10908	30-1	0720	Sat	192 1 01849 00167 78965 ... 90285 14182 47335	MFSK-20/10Bd	(AB)
XPA	12208	2-1	0740	Sat	192 192 192 000 02417 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12208	6-1	0740	Wed	192 192 192 000 02839 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12208	9-1	0740	Sat	192 192 192 000 03338 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12208	13-1	0740	Wed	192 1 02817 00109 86678 ... 21660 08471 76306	MFSK-20/10Bd	(AB/HFD)
XPA	12208	16-1	0740	Sat	192 1 02817 00109 86678 ... 21660 08471 76306	MFSK-20/10Bd	(AB)
XPA	12208	20-1	0740	Wed	192 192 192 000 09592 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12208	23-1	0740	Sat	192 192 192 000 07814 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	12208	27-1	0740	Wed	192 1 01849 00167 78965 ... 90285 14182 47335	MFSK-20/10Bd	(AB)
XPA	12208	30-1	0740	Sat	192 1 01849 00167 78965 ... 90285 14182 47335	MFSK-20/10Bd	(AB)
XPA2	5391	5-1	1940	Tue	09663 00001 00000 10140	MFSK-16/20Bd	(MPJ)
XPA2	13438	3-1	1340	Sun	02041 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13438	5-1	1340	Tue	04671 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13438	12-1	1340	Tue	07186 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13438	17-1	1340	Sun	00469 00121 15552 ... 81269 84074 72131	MFSK-16/20bd	(AB/MPJ/HFD)
XPA2	13438	24-1	1340	Sun	03655 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13438	26-1	1340	Tue	08160 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13438	31-1	1340	Sun	05135 00083 67617 ... 18253 38797 16733	MFSK-16/20Bd	(AB)
XPA2	13472	5-1	0700	Tue	06683 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13472	8-1	0700	Fri	06719 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13472	12-1	0700	Tue	05613 00121 63264 ... 45320 94044 56520	MFSK-16/20Bd	(AB)
XPA2	13472	15-1	0700	Fri	05613 00121 63264 ... 45320 94044 56520	MFSK-16/20Bd	(AB)
XPA2	13472	19-1	0700	Tue	09776 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13472	22-1	0700	Fri	09391 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13472	26-1	0700	Tue	04549 00087 27458 ... 65805 68334 22620	MFSK-16/20Bd	(AB)
XPA2	13472	29-1	0700	Fri	04549 00087 27458 ... 65805 68334 22620	MFSK-16/20Bd	(AB)
XPA2	13923	1-1	1440	Fri	06166 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13923	2-1	1440	Sat	06994 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13923	8-1	1440	Fri	04633 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13923	9-1	1440	Sat	04456 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13923	16-1	1440	Sat	05118 00073 64200 ... 94530 11863 10605	MFSK-16/20Bd	(AB/HFD)
XPA2	13923	22-1	1440	Fri	01116 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13923	23-1	1440	Sat	01971 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13923	29-1	1440	Fri	02592 00107 89547 18593 79762 ... 25112 23735 69047 56127 17406	MFSK-16/20Bd	(MPJ)
XPA2	13923	30-1	1440	Sat	04621 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14378	4-1	0840	Mon	06683 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	14378	6-1	0840	Wed	05549 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14378	11-1	0840	Mon	00868 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14378	13-1	0840	Wed	05209 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14378	18-1	0840	Mon	03663 00191 42640 ... 48109 89034 31056	MFSK-16/20Bd	(AB)
XPA2	14378	20-1	0840	Wed	03663 00191 42640 ... 48109 89034 31056	MFSK-16/20Bd	(AB)
XPA2	14378	25-1	0840	Mon	03725 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14378	27-1	0840	Wed	07158 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14438	3-1	1320	Sun	02041 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14438	5-1	1320	Tue	04671 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14438	12-1	1320	Tue	07186 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14438	17-1	1320	Sun	msg	MFSK-16/20Bd	(HFD)
XPA2	14438	24-1	1320	Sun	03655 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14438	26-1	1320	Tue	08160 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14438	31-1	1320	Sun	05135 00083 67617 ... 18253 38797 16733	MFSK-16/20Bd	(AB)
XPA2	14663	1-1	1420	Fri	06166 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14663	2-1	1420	Sat	06994 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14663	8-1	1420	Fri	04633 00001 00000 10140	MFSK-16/20Bd	(AB)

Code	Freq	Date	UTC	Day	Details	Mode	Ctrb
XPA2	14663	9-1	1420	Sat	04456 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14663	16-1	1420	Sat	05118 00073 64200 ... 94530 11863 10605	MFSK-16/20Bd	(AB/HFD)
XPA2	14663	22-1	1420	Fri	01116 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14663	23-1	1420	Sat	01971 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14663	30-1	1420	Sat	04621 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14772	5-1	0720	Tue	06683 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	8-1	0720	Fri	06719 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	12-1	0720	Tue	05613 00121 63264 ... 45320 94044 56520	MFSK-16/20Bd	(AB)
XPA2	14772	15-1	0720	Fri	05613 00121 63264 ... 45320 94044 56520	MFSK-16/20Bd	(AB)
XPA2	14772	19-1	0720	Tue	09776 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	22-1	0720	Fri	09391 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14772	26-1	0720	Tue	04549 00087 27458 ... 65805 68334 22620	MFSK-16/20Bd	(AB)
XPA2	14772	29-1	0720	Fri	04549 00087 27458 ... 65805 68334 22620	MFSK-16/20Bd	(AB)
XPA2	14978	4-1	0820	Mon	06683 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	14978	6-1	0820	Wed	05549 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14978	11-1	0820	Mon	00868 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14978	13-1	0820	Wed	05209 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14978	18-1	0820	Mon	03663 00191 42640 ... 48109 89034 31056	MFSK-16/20Bd	(AB)
XPA2	14978	20-1	0820	Wed	03663 00191 42640 ... 48109 89034 31056	MFSK-16/20Bd	(AB)
XPA2	14978	25-1	0820	Mon	03725 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14978	27-1	0820	Wed	07158 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15978	4-1	0800	Mon	06683 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	15978	6-1	0800	Wed	05549 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15978	11-1	0800	Mon	00868 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15978	13-1	0800	Wed	05209 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15978	18-1	0800	Mon	03663 00191 42640 ... 48109 89034 31056	MFSK-16/20Bd	(AB)
XPA2	15978	20-1	0800	Wed	03663 00191 42640 ... 48109 89034 31056	MFSK-16/20Bd	(AB)
XPA2	15978	25-1	0800	Mon	03725 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15978	27-1	0800	Wed	07158 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16138	3-1	1300	Sun	02041 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16138	5-1	1300	Tue	04671 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	12-1	1300	Tue	07186 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16138	17-1	1300	Sun	00469 00121 15552 ... 81269 84074 72131	MFSK-16/20bd	(MPJ/HFD)
XPA2	16138	24-1	1300	Sun	03655 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16138	26-1	1300	Tue	08160 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16138	31-1	1300	Sun	05135 00083 67617 ... 18253 38797 16733	MFSK-16/20Bd	(AB)
XPA2	16167	1-1	1400	Fri	06166 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16167	2-1	1400	Sat	06994 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16167	8-1	1400	Fri	04633 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16167	9-1	1400	Sat	04456 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16167	16-1	1400	Sat	05118 00073 64200 ... 94530 11863 10605	MFSK-16/20Bd	(AB/HFD)
XPA2	16167	22-1	1400	Fri	01116 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16167	23-1	1400	Sat	01971 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16167	30-1	1400	Sat	04621 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	5-1	0740	Tue	06683 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	8-1	0740	Fri	06719 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	12-1	0740	Tue	05613 00121 63264 ... 45320 94044 56520	MFSK-16/20Bd	(AB)
XPA2	16272	15-1	0740	Fri	05613 00121 63264 ... 45320 94044 56520	MFSK-16/20Bd	(AB)
XPA2	16272	19-1	0740	Tue	09776 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	22-1	0740	Fri	09391 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16272	26-1	0740	Tue	04549 00087 27458 ... 65805 68334 22620	MFSK-16/20Bd	(AB)
XPA2	16272	29-1	0740	Fri	04549 00087 27458 ... 65805 68334 22620	MFSK-16/20Bd	(AB)

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Danix Danix111, Poland
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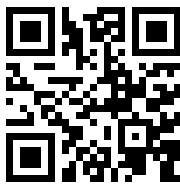
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7269 76329 74698 76857 98678 27681 56701 57681 73648 11
591 87364 87265 96710 27638 12673 84769 28743 98127 5
8 63298 75698 27465 87326 49876 28376 81273 98615 66
67 87432 74328 78674 29867 32867 67867 86786 43296 486
57 68768 68763 34234 34238 68768 62342 48273 48768 23
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