

6	27364	92836	89428	81268	74982	36198	32764	31277
86	48932	78987	32123	49817	26346	81287	65491	87364
721	75654	55656	12737	72727	72727	91918	63473	67867
723	87629	37677	32612	53498	71296	28756	18276	98716
269	76329	74698	76857	98678	27681	56781	57681	73648
1	87364	87265	96718	27638	12673	84769	28743	98127
8	63298	75698	27465	87326	49876	28376	81273	98615
7	87432	74328	78674	29867	32867	67867	86786	43286
7	68768	68763	34234	34238	68768	62342	48273	48768
26	98432	32432	86743	43286	43286	43286	43286	43286
43	86743	86743	39867	32867	86743	43286	43286	43243
1	86743	86743	86743	86743	86743	86743	86743	86743
93	98798	98754	98754	98754	98754	29867	67543	67986
10	87698	69876	87698	69876	87612	12341	34867	86798
1	43298	65656	56756	56123	32143	14321	32143	14321
1	58767	58767	58767	58765	76587	58765	76587	58756

# *Numbers & Oddities*

## *a.k.a. The Spooks Newsletter*

### *Edition #268, January 2020*

Editor: Ary Boender email: [udxf@udxf.nl](mailto: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.



- . . . - - - - . . . . . - . . . . . - . - . - . . . . . - - - - . . - . . . . - . . . . .



(= NUMBERS & ODDITIES =)

editor: Ary Boender

ary@bitbike.iaf.nl

2:283/512.24

-----

In this column I'd like to deal with the more obscure part of our hobby. Numbers stations, strange sounds, beeps, pips and items about intelligence organizations is what have in mind for the 'Numbers & Oddities' (N&O) column. It is both a difficult and a fascinating part of the hobby. There is little known of the stations I just mentioned and the main part of the information here comes from a bunch of dedicated N&O monitors. It is the result of many, many hours of listening, comparing and discussing the loggings with fellow dxers.

Useful information can be found in Popular Communications, Monitoring Times, the Enigma Newsletter and of course DX-Club bulletins. The following books are also highly recommended: Underground Frequency Guide (Don Schimmel), Secret Signals (Simon Mason), Uno, Dos, Cuatro (Havana Moon) and Intercepting Numbers Stations (Langley Pierce).

The most heard numbers stations are operated by the CIA, Mossad, KGB, MI6 and BND.

In many countries it is prohibited to listen to utility stations, particularly to government or military stations. Therefore I will omit the names of the people who send me their info, unless you want to be mentioned.

Lincolnshire Poacher

=====

Believed to be operated by MI6 from sites including RAF Akrotiri in Cyprus and aimed towards the Near East. Transmissions are often heavily jammed.

Frequencies (kHz)

=====

Primary	Secondary	Tertiary	
6959	8302	7887	2000UTC - 0000UTC
6959	8464	9251	2000UTC - 0000UTC
11545	12603	13375	1600UTC - 2000UTC
13375	11545	14487	1200UTC - 1400UTC
14487	15682	16084	1400UTC - 1600UTC

MOSSAD "Phonetic Alphabet" Stations

=====

Transmissions are in AM but with best results obtained in USB.

Frequency (kHz)	Callsign				
		5339	OEM (occasional)	7918	YHF
		5437	ART	8127	CIO, MIW
		5531	BAY (occasional)	8465	SYN, CIO
2270	JSR	5629	SYN, CIO	8641	MIW
2957	SYN	5715	ZWL (occasional)	9130	EZI
3150	PCD, ART	5820	YHF	9402	YHF
3270	KPA	5911	OEM (occasional)	10125	CIO
3417	ART	6270	ULX	10648	YHF
3840	YHF	6500	PCD	10820	VLB
4270	PCD	6745	CIO, VLB	11565	EZI
4360	CIO	6840	JSR, EZI	12747	SYN
4463	FTJ	6912	OEM (occasional)	12950	MIW
4560	YHF	7323	???	13533	EZI
4665	VLB	7446	KPA	13921	CIO
4780	KPA, ULX	7540	JSR	14750	CIO, MIW
4880	ULX	7605	VLB, SYN, CIO	17410	EZI
5091	JSR	7613	GPO (occasional)	19715	EZI
5230	MIW, SYN, VLB, CIO	7760	ULX	20740	SYN

Oddities: lots of strange noises, pips and beeps can be heard throughout the shortwave spectrum. Many of them are simply hets, natural noises or originate from navigational systems like Omega, Loran and Decca. Other transmissions however, are more difficult to pin-point. Why would someone transmit the time in CW without any form of identification, or what about the stations who transmit the pips and beeps ?

On 4625 kHz a buzzer can be heard 24 hours a day. This one started in the early eighties as a 2-second pip and changed a couple of years ago into the buzzer. The station is located in Byelorussia according to a DF-expert. No-one knows its purpose.

On 4081,3 kHz there is a beep with a duration of 2 seconds which is transmitted every 4 seconds. No id has ever been heard. Another one can be found on 3757,1 kHz. A pip is transmitted every second. No id so far.

Also on 4625 kHz is a strange kinda timesignal station. It is best heard in the late evenings here in Europe and transmits the time (UTC+3 hours) in CW. No id heard. The time UTC+3 is Moscow time. It is unknown if the station transmits from the former USSR. The Middle East is also a possible location.

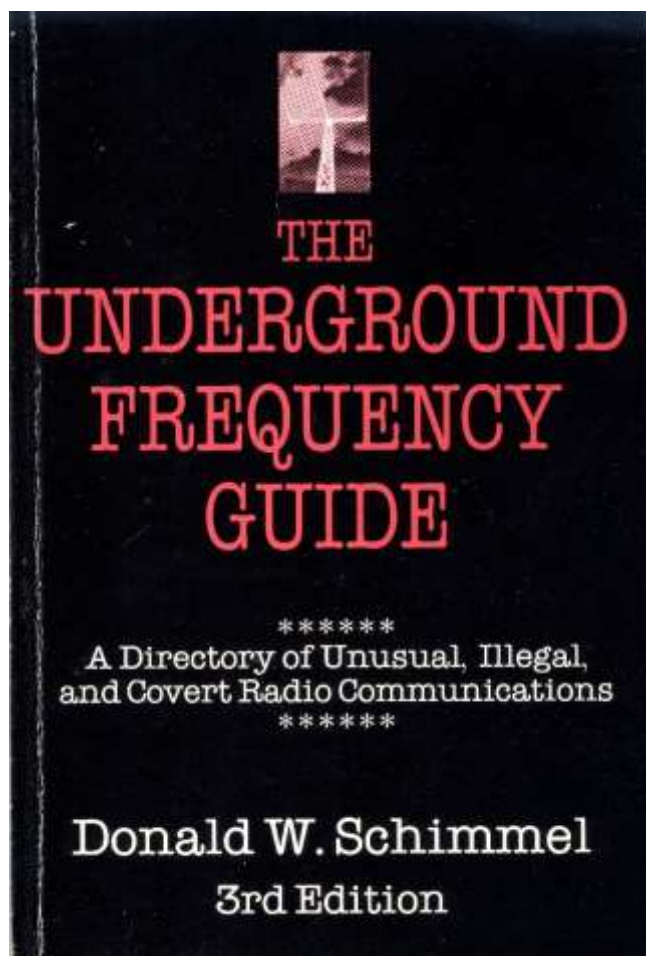
End of message      Ende Ende      Final Final

'till next time. Please, send me your comments, suggestions and loggings.

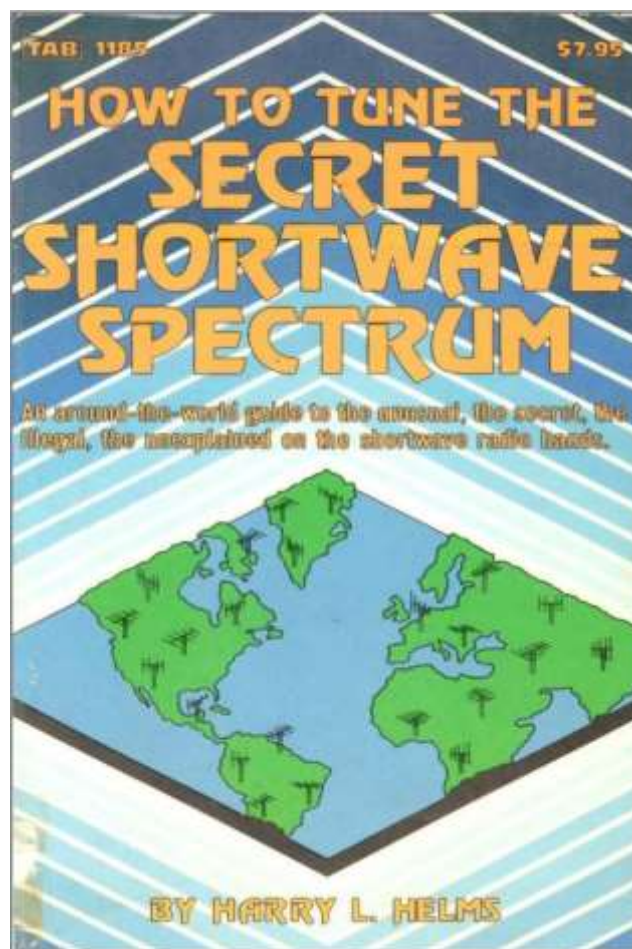
CU, Ary

---

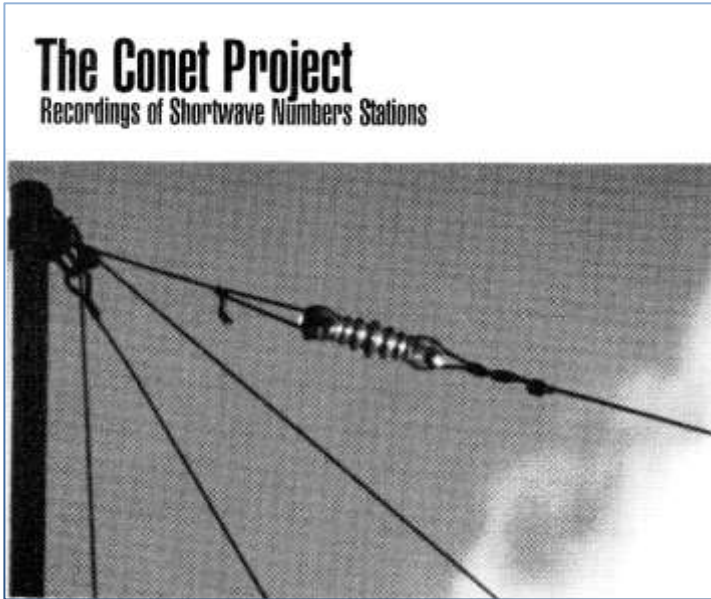
Although the Cold War was over in 1997; the iron curtain was open and some stations already left the air, you could still hear a lot of stations. The stations were quite popular in the 1980's and 1990's. The ENIGMA organisation (now ENIGMA 2000) was already active and published a newsletter. Monitoring Times and Popular Communications often wrote about numbers stations and you could buy books about the subject too. The Conets project even produced a CD set with recordings and Havana Moon had a column about numbers stations in the ACE newsletter. It was called "Los Numeros". The books that were helpful in those days are still in my possession. I also treasure the Conets CDs.



[The Underground Frequency Guide by Don Schimmel](#)



[How to tune the Secret Shortwave Spectrum by Harry Helms](#)



The Conets Proect booklet + CD-set

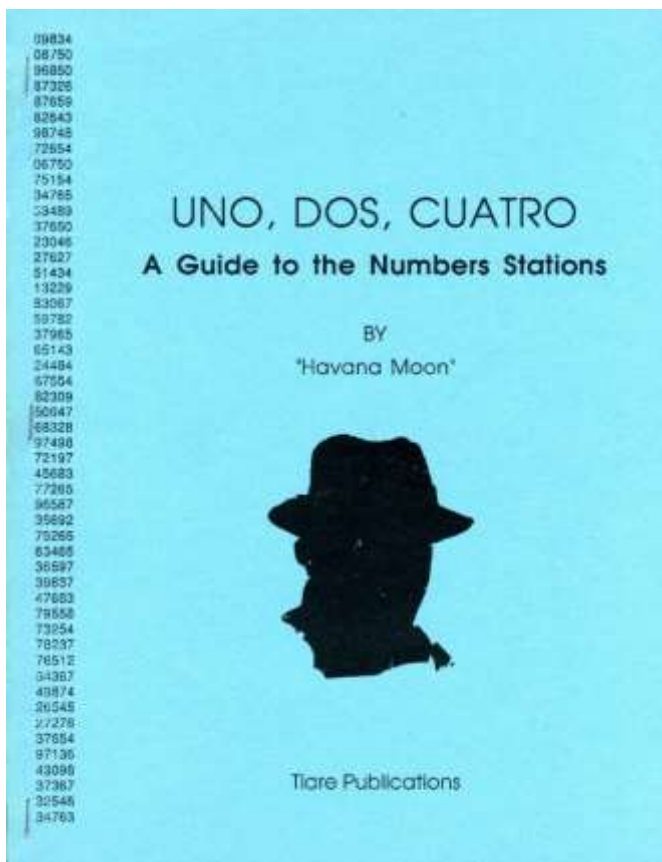
## Intercepting Numbers Stations

by  
Langley Pierce

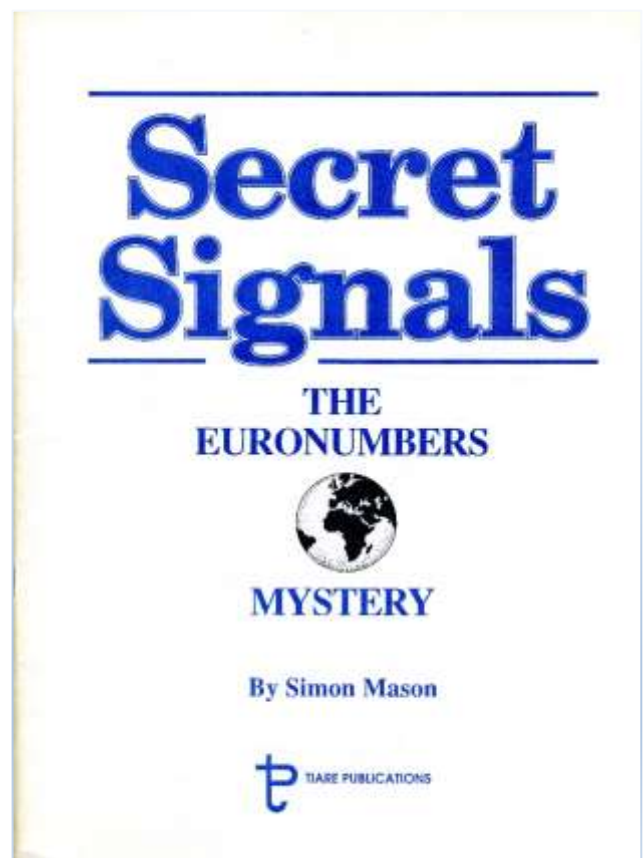


*Unlocks the Secret World of Spy Radio Transmissions.  
Details the cloak and dagger activites of the CIA, Mi6, the  
KGB, the MOSSAD and many more.....  
Lists the world's most active frequencies.*

Intercepting Numbers Stations by Langley Pierce



Uno, Dos, Cuatro, by Havana Moon



Secret Signals, the Euronumbers Mystery by Simon Mason

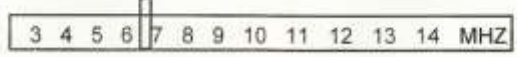
1

# E. N. I. G. M. A.

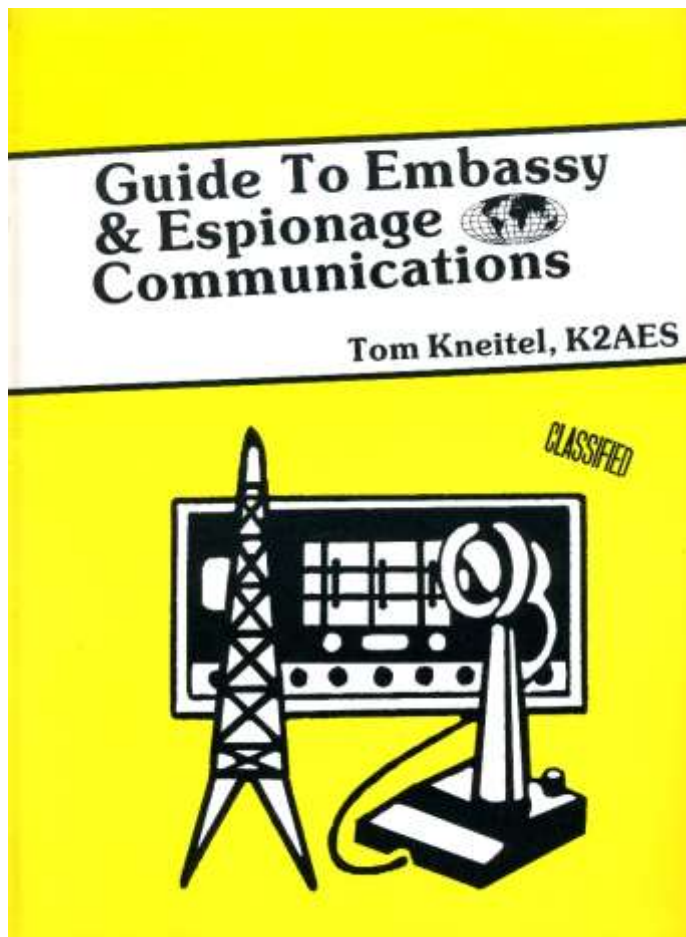
European Numbers Information Group  
And Monitoring Association



0	ZERO	ZERO	NULA	NULL
1	JEZIUTA	UNO	EDNA	EINS
2	DVONTA	DOI	DVOYTZE	SVO
3	TRUNTA	TREI	TRI	DREI
4	CZDIRI	PATRU	CHETYRI	VIER
5	PEYONTA	CINCI	PEDARTZE	FUNF
6	SESH	SASE	SEST	SECHS
7	SEDM	SAPTE	SEDTZER	SEDEN
8	OSEM	OPT	ASEH	ACHT
9	PRUNKA	NOVA	DEVET	NEUN



The 1<sup>st</sup> edition of the ENIGMA newsletter



Guide to Embassy & Espionage Communications by Tom Kneitel

## LOS NUMEROS

by

Havana Moon

### NUMBERS 101, PART 1.

Much has been written in past years about these curious shortwave phenomena - and debate has raged for most of the 25 years these transmissions have been known to exist as to their purpose, originating sites and the individuals responsible for them.

In reading my mail, I find that readers raise fundamental questions about Numbers - and I realize that maybe it's time to get back to the basics - back to Numbers 101. Time to re-examine the distinctly different formats which appear in these transmissions, time to re-visit the suggestions made over these past years that these messages are meant to be decoded with the use of One-Time-Pads, and so on.

Readers should be aware that there is probably no SINGLE explanation for these curious transmission. Several distinctly different transmission formats have been identified and the findings published in my first book, "Uno, Dos, Cuatro: A Guide To The Spy Numbers Stations", Tiare Publications, 1987.

Havana Moon had a column in the ACE newsletter called Los Numeros



# MONITORING TIMES

Volume 3-Number 4

BRASSTOWN, NORTH CAROLINA 28902

April, 1984

## U.S. NUMBERS STATION FOUND!

A MONITORING TIMES EXCLUSIVE

by Bob Grove

For more than 20 years, shortwave listeners have been puzzled by the mysterious broadcasts of numbers groups, read by a woman's mechanized voice, spoken usually in English or Spanish.

The absence of reliable direction-finding equipment among the hobby community, and the reluctance of the FCC to provide bearings, has proven frustrating to the

One stalwart MT contributor was not standing still; skilled in monitoring and blessed with an analytical mind, he set out to find the transmitter.

His odyssey covered nearly one thousand miles and took dozens of hours--far from his home. But when he was through, his persistence had paid off.

Nestled in the rolling hillsides of eastern Virginia, a series of barbed-wire-enclosed military installations maintain a low profile

ANOTHER SURPRISE

But the revelation to come was just as surprising. Off frequency, the key clicks of a powerful CW station could be heard. Carefully retuning his receiver dial, the inquisitive listener found a Morse signal tape booming in on 6925.5, 10637, 12022.5 and 15540 kHz along with the call sign: KKN50--officially assigned to the U.S. State Department, but unofficially suspected to be the Central Intelligence Agency!

But what is this... in 1976, the... appeared to



Header of a numbers stations article in Monitoring Times back in April 1984



Thanks for your support  
and contributions during the past  
25 years

Cheers

## FOREWORD

What do we have for you this month? Besides the “25 years N&O” item we have the usual bunch of logs and transcripts, some recordings and quite some logs from the Russian Southern Military District, logged by Gwarpse. They had a big exercise on the 30<sup>th</sup>. Russian intel also sent some training messages in V06 format, which is in Spanish and seldom used and a S06c and E06b message.

HM01 is still active but is still sending the message of 5 November 2019. The Polish E11-net added new variants to their digital modes. See further the “Polish Intelligence” chapter.

The ugly Ukrainian-Russian radio war is still going on, for more than 5 years now. See the “Propaganda” section for logs and waterfall text pictures.

Enjoy and please, keep sending your logs and info.

---

## VOICE STATIONS

### E06

#### **13945 kHz, 02-01/03-01, 0600 UTC / 16350 kHz, 02-01/03-01, 0700 UTC**

139 702 53

36597 05919 36325 89675 00003 77499 63379 52657 62905 80839  
65906 02922 44858 56155 32269 93707 43957 28966 40235 39716  
37985 84552 73016 16055 72762 78445 15472 58031 54883 68892  
60182 10272 91046 82233 78079 98587 41148 47121 33299 23039  
77332 58528 46976 95618 66187 57481 39642 71014 16275 37447  
06929 43861 58177  
702 53 00000

#### **4836 kHz, 02-01, 2030 UTC**

321 835 45

12435 76426 05698 65615 65790 43483 23453 83874 12453 16452  
68716 08343 24102 88748 72657 03126 73561 61123 87122 83823  
84774 61251 87891 23437 94526 13242 17964 43525 12121 21198  
64265 42346 56781 44322 38765 32145 63451 22344 56944 13368  
78265 14368 12346 73416 32442  
835 45 00000  
Windows XP shutdown sound

#### **4760 kHz, 03-01, 2130 UTC**

472 836 45

12435 76426 05698 65615 65790 43483 23453 83874 12453 16452  
68716 08343 24102 88748 72657 03126 73561 61123 87122 83823  
84774 61251 87891 23437 94526 13242 17964 43525 12121 21198  
64265 42346 56781 44322 38765 32145 63451 22344 56944 13368  
78265 14368 12346 73416 32442  
836 45 00000  
Windows sound followed by Windows XP shutdown sound

#### **13945 kHz, 16-01/17-01, 0600 UTC / 16350 kHz, 16-01/17-01, 0700 UTC**

139 478 52

91874 11683 61046 37921 89798 97741 60541 16464 63154 44205  
73612 97200 01841 03182 48857 38422 48850 22323 62987 90946  
69573 60101 40964 17545 42687 09002 15685 10125 39813 62550  
06910 03101 86127 87137 24108 06399 19126 84561 22926 06523  
87705 56231 69948 09126 58784 04965 95451 21525 23611 35324  
38834 98595  
478 52 00000



**4836 kHz, 16-01, 2030 UTC**

321 836 42  
45671 65736 96930 23572 72375 23672 92358 23653 29359 23659  
12345 23582 23692 60232 23658 23689 13245 23682 03956 01956  
69382 23765 83726 96874 27165 96844 43837 34572 28716 65896  
23876 26372 90684 76845 27252 13945 76845 94038 37265 57693  
48690 03856  
836 42 00000  
Windows XP shutdown sound

**4760 kHz, 17-01, 2129 UTC. Early start**

472 836 45  
12435 76426 05698 65615 65790 43483 23453 83874 12453 16452  
68716 08343 24102 88748 72657 03126 73561 61123 87122 83823  
84774 61251 87891 23437 94526 13242 17964 43925 12121 21198  
64265 42346 56781 44322 38765 32145 63451 22344 56944 13368  
78265 14368 12346 73416 32442  
836 45 00000

**E06b**

Edd copied a S06c and an E06b transmission. The E06b is probably an exercise. A nice one, Edd!  
As you can read there were some problems during the transmission.

**10755 kHz, 21-01, 1430 UTC. E06b followed by E06. Different repeat of group 36**

975 975 975 74123 (R4)  
183 183 38 38  
84033 95467 27441 69842 62131 87999 79526 73405 75603 33552  
97745 14336 17212 65334 70181 18271 16286 stops  
975 975 975 (R)  
17212 65334 70181 18271 16286 10735 12743 31846 23170 82290  
66373 34214 60558 03114 70667 10380 83912 77738 59133 59783  
18153 44312 65255 38856 62800 69070 stops  
975 975 975 (R)  
59783 18153 44312 65255 38586 62800 69070  
183 183 38 38 00000

**E07**

**6963/5863/4763 kHz, 01-01, 1800/1820/1840 UTC**

987 987 987 1 9952 121 9952 121  
94932 19840 44164 38141 80536 26319 12453 86173 78832 23089  
45699 05207 37735 97127 32621 63140 62511 56417 64057 32762  
08351 68340 00831 44741 97075 58558 70755 37016 69409 31112  
12476 90020 62427 32882 18150 95797 62086 99840 95288 31329  
94994 08888 89999 35885 11838 59394 15263 36956 58022 34737  
57001 23786 34485 89290 64660 76973 80963 94306 65113 04476  
09414 75224 21838 79620 11130 91830 40884 54174 79298 37666  
99342 13709 51665 20377 19584 54966 69475 75671 21863 11840  
68504 52482 06689 03189 46870 14781 84123 37147 41256 98711  
92158 00757 86111 05375 82276 21391 25303 59655 26863 37729  
66681 07027 30875 03728 41699 45550 72815 51049 58233 72967  
62635 60304 60514 78246 25279 34029 37527 39386 28347 48419  
45457 000 000

**14472/14972/16272 kHz, 10-01, 0700/0720/0740 UTC**

492 492 492 1 479 151 479 151  
42105 25590 51432 59248 60264 80363 14789 28720 71348 39333  
18891 40574 14065 68345 99411 30453 46404 47177 01976 28768  
51232 22023 47308 66869 71820 79825 18289 18320 77555 07131  
58614 28418 35400 00743 80758 79026 19895 10839 13314 86337  
87929 47658 45734 32667 76149 39043 57782 07158 46159 37702  
19260 29805 30953 06571 80748 61753 03859 82365 22862 07105  
51543 49734 53786 49176 66827 16610 95580 01945 83228 69799  
59273 56942 61853 22485 91633 83188 82183 90374 32252 42552  
33694 31450 76152 22524 66961 25274 58567 76571 31335 32811  
80442 14096 83541 01716 16988 56529 34167 47112 84228 84784  
63195 77198 72378 28876 27585 37582 29785 54059 45921 36677  
64196 61779 82826 95830 49210 77136 02680 68079 72316 17191  
26557 63960 66705 58081 39954 88597 65556 61334 96535 88129  
81985 66553 30889 91126 10352 75903 06237 06550 15851 85701  
08802 82153 31714 84782 95401 44671 45129 71927 55464 93721  
99904 000 000

**13523/12123/10623 kHz, 14-01/17-01, 1100/1120/1140 UTC**

516 516 516 1 9905 68 9905 68  
84249 40356 92939 59425 53547 67020 97472 93271 21888 18656  
71256 52423 69741 11297 29416 15213 86682 26580 46323 22243  
90009 17390 73797 92624 33705 68688 95187 57813 40880 94702  
12982 27094 79729 22357 89532 76907 49823 02152 02497 93980  
43493 75278 84823 22367 71106 06607 71940 83774 47114 71844  
61266 50288 70413 95907 72727 47014 56414 05659 81612 26840  
81471 85461 54106 24539 52663 71548 67494 51287 000 000

**14472/14972/16272 kHz, 24-01, 0700/0720/0740 UTC**

492 492 492 1 9157 122 9157 122  
40920 26151 14067 64842 20489 58361 43317 95522 88955 82467  
06140 88623 55002 29983 83404 89500 28571 21861 01323 93600  
70810 23968 75080 76003 16300 84285 00004 08771 06396 10569  
80996 54126 93066 37293 53629 50496 23713 97675 81390 40012  
44556 47672 58793 12852 95548 52159 28139 49264 97537 14005  
51987 25241 84438 32751 97248 95755 46115 16672 53661 39689  
12695 73752 10650 47200 47527 33749 10624 30667 99142 39605  
49004 35620 62246 84316 50494 61651 92275 71330 82483 89695  
00282 26105 15078 94967 63763 40075 58964 64717 28073 46180  
49166 34899 42353 67451 63605 79290 95221 16693 35215 34558  
61760 13874 10155 94574 01153 21363 87703 03067 97865 56512  
33596 37527 18210 56506 69287 12353 44691 54705 21687 69719  
41631 52608 000 000

**6776/5767/5067 kHz, 27-01/29-01, 2000/2020/2040 UTC**

770 770 770 1 990 76 990 76  
49913 46917 43570 68822 24923 90856 55095 84550 59368 24299  
35259 00728 18606 05773 17321 54742 40799 72371 86635 55786  
12661 16052 26300 63627 45954 12584 32880 67630 19393 34799  
43076 83279 53010 79398 94889 50877 56869 12536 67718 02689  
21205 65107 41950 02550 43242 25416 20948 96455 77537 12272  
72783 89914 98652 20628 75104 63997 57534 37418 71896 74095  
20309 67029 19566 11788 73310 40873 06249 43002 54203 58317  
61026 34726 36725 61318 44363 58543 000 000

**13523/12123/10623 kHz, 28-01/31-01, 1100/1120/1140 UTC**

516 516 516 1 485 138 485 138  
94997 36238 93727 70703 86799 81765 73824 00788 48396 13617  
16282 04272 86191 13916 55283 74803 78249 48887 57635 58569  
59202 25952 09527 43761 58714 91141 45463 02414 61118 25904  
99844 00111 13269 74032 61378 15014 73798 53590 45963 41517  
70871 93511 93866 68753 07604 84346 37511 52373 36031 24558  
81921 87529 65653 05191 81462 59162 06462 52894 82455 36221  
83487 48219 21594 42788 03676 44759 83420 39002 78619 77502  
42294 45477 38224 82026 28700 61593 83793 84962 49028 21837  
19968 53004 80250 03027 84541 59001 03481 03701 24577 28979  
87078 18514 18432 97270 97194 51052 44746 62185 88578 15889  
55698 60636 50514 00543 48743 53625 73527 48603 01428 51866  
22862 80410 56319 32261 44949 74784 84199 75914 95268 68340  
47786 89025 92342 38836 49980 83934 97913 20524 11310 24308  
96103 94181 23005 96026 70486 32660 95901 95360 000 000

**11593/10293/9293 kHz, 30-01, 1400/1420/1440 UTC**

916 916 916 1 2602 78 2602 78  
14202 31975 65006 84915 80353 89693 72922 48114 06381 14180  
97212 52438 23573 42207 23210 85773 75355 98403 81738 87760  
52640 34202 75785 34269 23265 62764 43079 07678 37198 24346  
72116 57376 57858 79704 47516 68381 26894 99684 68581 61789  
57629 20798 85874 85076 58004 26119 60606 76981 45809 50148  
12192 70730 61972 06491 14140 17530 78403 84518 23786 34699  
26445 55335 49267 88460 45818 56195 10446 85428 12174 00548  
71671 13768 84978 87045 95893 44337 92487 08648 000 000

**E07a**

**5877/52774577 kHz, 22-01, 2100/2120/2140 UTC**

825 825 825 1 68470 9679 83 9679 83  
12758 86300 04361 26885 22743 43869 57049 19720 53518 14927  
41996 82565 32071 47930 37021 38987 16445 27059 99355 41039  
63935 98480 27945 84753 60545 04102 96016 30811 18086 68236  
17794 55395 21660 41063 34150 54331 88996 72577 41463 83988  
17552 34311 75265 20418 42597 58908 38090 32717 14902 80292  
98327 89873 90027 38339 90617 02045 57098 52876 62062 61595  
73721 32886 91259 86120 62492 90850 06791 67333 23451 27891  
85686 07340 28889 53836 01099 20387 71582 23969 74133 60623  
41782 11798 89038 000 000

**5111/5811/6911 kHz, 23-01, 0530/0550/0610 UTC**

189 189 189 1 68470 9679 83 9679 83  
12758 86300 04361 26885 22743 43869 57049 19720 53518 14927  
41996 82565 32071 47930 37021 38987 16445 27059 99355 41039  
63935 98480 27945 84753 60545 04102 96016 30811 18086 68236  
17794 55395 21660 41063 34150 54331 88996 72577 41463 83988  
17552 34311 75265 20418 42597 58908 38090 32717 14902 80292  
98327 89873 90027 38339 90617 02045 57098 52876 62062 61595  
73721 32886 91259 86120 62492 90850 06791 67333 23451 27891  
85686 07340 28889 53836 01099 20387 71582 23969 74133 60623  
41782 11798 89038 000 000

**17378 kHz, 01-01, 0745 UTC**

340/39 Attention

07175 37508 17176 84435 30619 69756 25656 08520 83336 41300  
99489 53965 54924 75912 95500 61557 97370 78440 34530 85360  
78574 01226 90796 27804 02764 61558 08706 52486 35675 54506  
86198 29345 47364 68623 89762 59519 53165 61295 61114

Attention (message repeated) Out

**4505 kHz, 01-01/04-01, 1705 UTC**

391/35 Attention

36507 59377 94204 20501 59097 63128 44250 41801 54407 51993  
53149 46078 08095 30812 49886 77800 75458 34171 04990 26031  
82901 94080 99908 39878 07885 87294 53885 45478 19555 60474  
49948 78184 58479 69631 36591

Attention (message repeated) Out

**10487 kHz, 03-01/05-01, 1910 UTC**

612/40 Attention

36821 72344 43607 94243 52294 96008 86228 39448 79798 25442  
75433 63611 96322 30087 32867 64865 08000 48133 31939 48965  
20458 68304 48968 53203 18777 40856 88393 69300 14166 87023  
78449 14953 30959 72038 89178 55962 46405 50937 38032 01627

Attention (message repeated) Out

**4909 kHz, 04-01/05-01, 0805 UTC**

315/35 Attention

58177 76013 11905 52497 48145 23759 75605 17254 25668 27880  
92739 40987 23726 41313 68746 35207 20371 61179 65794 48518  
77629 87882 15058 41948 93799 74264 30372 85455 49972 12987  
91540 45353 62742 78278 95332

Attention (message repeated) Out

**4909 kHz, 04-01/05-01, 1930 UTC**

363/38 Attention

52163 05618 12051 83442 11777 39387 44256 95801 22830 70618  
69785 35954 25058 35619 15189 99988 73080 61108 02271 12269  
67869 76834 73373 82048 30227 91559 63113 62157 44019 05662  
02297 12758 18940 91559 08861 56263 22801 42810

Attention (message repeated) Out

**4909 kHz, 06-01, 0450 UTC****5779 kHz, 09-01, 1730 UTC**

410/36 Attention

69806 48481 86948 62559 65754 81573 66264 34688 83063 33026  
07794 66029 28331 76780 84780 53917 32798 98849 39628 41579  
05310 88806 68825 68755 70678 00352 03522 71827 21617 51568  
88346 65348 12018 30525 05372 65252

Attention (message repeated) Out

**8597 kHz, 06-01/08-01, 0900 UTC**

532/36 Attention

86797 95859 43039 57536 43513 08431 71989 80706 45543 92250  
94568 41977 82490 81503 36479 61072 03100 12827 51988 41110  
49834 47833 87507 59454 20629 86789 32419 92141 31966 28158  
81867 83874 38331 47800 54673 60473

Attention (repeat message) Out

**12924 kHz, 06-01/12-01, 1745 UTC**

240/33 Attention

67090 46131 65784 35027 79214 27998 52823 32658 85507 57148  
70704 20938 98390 55503 47376 35051 22820 24078 43401 48935  
59095 37225 78634 01256 86849 06251 34075 73277 86381 47120  
80086 43872 53204

Attention (message repeated) Out

**5344 kHz, 07-01/12-01, 1605 UTC**

232/39 Attention

57993 57922 07656 22343 85805 22097 83541 08983 42139 44639  
61585 52120 10445 96464 41560 56971 82638 00691 88882 26895  
24670 50479 38443 34015 27901 19378 32569 99073 34833 20444  
35794 04234 69039 84159 48357 24243 47039 82279 40878

Attention (message repeated) Out

**7469 kHz, 08-01/09-01, 0930 UTC**

278/40 Attention

30507 39133 38616 61489 24881 24356 35659 09838 56672 01833  
34087 96272 61899 78608 42655 00606 85372 42015 03921 83118  
83922 61962 69832 90104 85905 20137 17596 31106 40977 27899  
02018 86296 98654 31930 76179 79231 26731 38598 82452 08239

Attention (message repeated) Out

**4505 kHz, 11-01/12-01, 0710 UTC**

496/35 Attention

25992 32852 53755 61955 37788 23882 90220 66902 59762 60410  
60820 68775 13001 21432 25507 56841 00205 28070 98467 72469  
00249 36565 40079 51853 57057 48991 97925 76423 90413 77423  
96646 17821 17699 09758 79312

Attention (message repeated) Out

**15720 kHz, 13-01/17-01, 0830 UTC**

181/24 Attention

91614 50851 84885 82095 57137 29938 08284 59048 53925 90357  
52959 00928 82896 46598 64067 04815 96117 49396 77091 82283  
38371 21697 61482 36728

Attention (message repeated) Out

**7840 kHz, 14-01/16-01, 0645 UTC**

516/39 Attention

88158 07273 84297 22785 71157 88032 12430 99937 51200 34989  
00674 78104 20513 45776 69080 20135 29662 63575 36863 04557  
19372 00337 16387 77448 83782 26732 52161 65285 73058 25042  
35096 08527 94298 32241 38870 45798 52735 18760 13182

Attention (message repeated) Out

**14611 kHz, 14-01/15-01, 0820 UTC**

135/35 Attention

36630 14669 35392 01995 81133 08257 96339 74909 07435 67636  
40586 93334 75154 05670 43305 97654 57413 53380 78179 63901  
89670 90386 41857 40900 02863 49966 44564 55341 94744 61185  
21697 61893 01007 71038 93022

Attention (message repeated) Out

**6433 kHz, 14-01/15-01, 1205 UTC**

463/39 Attention

75584 19073 78389 73404 10789 56245 60594 53729 17846 57582  
59507 78942 81743 64667 31333 23836 45170 56894 49766 45490  
97799 13751 75235 85063 52482 45332 43079 62917 94699 21854  
14956 36506 29451 92801 31145 92920 86064 61245 20259

Attention (message repeated) Out

**13363 kHz, 14-01/18-01, 1345 UTC**

911/32 Attention

60830 09143 48819 21188 07826 22941 40747 54426 50091 39385  
32356 76873 87345 81578 86062 31622 54085 27113 43968 56986  
74755 48423 08873 09875 31974 92948 36222 99594 15811 48478  
24124 51908

Attention (message repeated) Out

**6280 kHz, 14-01/16-01, 1700 UTC**

334/40 Attention

69236 21485 06899 29471 16575 02044 08278 45257 87665 16343  
12984 62549 46140 03809 26908 99772 79967 75444 94062 03505  
81612 51216 69077 26762 71646 78377 29929 05730 79856 35243  
53547 41789 12806 47046 83850 43907 15821 43820 08807 02125

Attention (message repeated) Out

**5082 kHz, 15-01/19-01, 1625 UTC**

975/31 Attention

53435 89515 09415 65019 84851 40007 52592 24774 95621 86331  
32152 92533 51505 34192 46663 75810 62371 46190 13928 46054  
81278 79706 05460 59308 45815 47023 89145 67819 51045 93042  
93574

Attention (message repeated) Out

**5149 kHz, 16-01/17-01, 0820 UTC**

435/31 Attention

06732 39928 50872 88502 36520 21819 24020 48228 30273 00793  
84152 93361 68478 42447 98427 46709 81526 20795 78162 34736  
36809 27679 40209 49314 31257 37575 20284 31515 82157 89763  
01723

Attention (message repeated) Out

**6849 kHz, 17-01/19-01, 1650 UTC**

926/38 Attention

14164 49111 32821 75766 44531 42250 58020 00537 75942 31581  
63250 49087 23886 00629 44737 43695 64405 09022 16378 39748  
83470 64366 76653 68947 74941 73788 77800 89677 94973 55838  
33287 93222 54415 42628 84062 48205 82513 82427

Attention (message repeated) Out

**10213 kHz, 20-01/23-01, 0745 UTC**

264/36 Attention

47591 20802 31756 89751 61104 02644 37920 69840 07163 88828  
29160 23778 44942 99874 45574 10587 63995 18593 54832 96582  
24690 50443 24307 62238 75650 97793 96447 87911 19997 96557  
78739 45285 43336 57942 02191 39047

Attention (message repeated) Out

**5082 kHz, 20-01/24-01, 1530 UTC**

525/32 Attention

43654 78986 35900 29312 23657 18192 73592 58248 33989 83248  
95584 07451 16737 19947 55485 87125 52290 04681 82996 01688  
95666 13352 61054 86511 81019 22804 57350 23692 26295 69484  
29612 99196

Attention (message repeated) Out

**13908 kHz, 21-01/23-01, 0745 UTC**

225/34 Attention

78201 52203 37421 54456 26155 31457 96185 60808 46720 18893  
02292 40833 74257 62429 77890 10622 44250 07786 27043 64759  
41867 51281 70557 82844 36718 44340 60873 00599 28457 41238  
80486 36343 22560 24147

Attention (message repeated) out

**8597 kHz, 21-01/24-01, 1000 UTC**

305/21 Attention

20118 31561 75705 07282 93661 38001 99904 10294 30542 23914  
34721 48388 17838 76886 73843 58603 80443 75561 79365 87131  
35744

Attention (message repeated) Out

**9130 kHz, 24-01, 0715 UTC**

634/36 Attention

27683 04534 37511 06388 83694 17628 96976 36450 58772 34201  
37870 92302 39730 18768 03967 82638 78333 51015 14137 84752  
15259 78937 38456 65672 89022 95537 06371 40322 14733 51654  
90074 82789 21092 15111 13006 87951

Attention (message repeated) Out

**7984 kHz, 27-01, 1045 UTC**

692/33 Attention

91739 08062 81258 08272 29174 23615 43445 14270 43699 82821  
44518 02188 16422 28822 25956 75946 05271 85060 85123 76555  
11343 49336 97210 47608 20232 02373 12035 87985 51873 71095  
02005 98676 32289

Attention (message repeated) Out

**6849 kHz, 27-01, 1900 UTC**

649/31 Attention

94993 11179 73632 52190 40200 90666 63349 56310 31143 95632  
44146 36776 77177 95881 95106 68681 29023 66656 37587 80960  
26561 43072 32147 35534 09948 36758 22799 95632 33737 58393  
20325

Attention (message repeated) Out

**6804 kHz, 28-01/31-01, 0700 UTC**

570/36 Attention

78138 23204 15936 96898 61337 28557 27166 42325 76494 80484  
22221 96893 65823 81554 05172 77942 03569 23968 13116 67567  
53069 92951 67013 68764 35336 48557 91675 72417 89686 62552  
84150 74879 45323 22600 18808 3044

Attention (message repeated) Out

**12089 kHz, 28-01, 0845 UTC**

151/37 Attention

31259 41018 26188 04257 05517 14290 29895 47257 62887 24268  
11640 09602 06043 60020 86200 74732 79025 58761 49483 32255  
83525 91316 36521 88118 11994 14403 98444 25969 99704 29415  
05722 44426 44711 94140 51905 62098 75557

Attention (message repeated) Out

**11450 kHz, 29-01, 0640 UTC**

948/36 Attention

13840 90132 19339 44417 04233 07392 23747 91319 05094 95209  
88628 29239 45055 11240 94152 17874 49619 44373 30390 94553  
18403 33362 30843 98733 70005 06928 98782 84874 87194 66870  
76086 30945 96309 26821 40644 71624

Attention (message repeated) Out

**7984 kHz, 29-01, 1045 UTC**

692/33 Attention

91739 08062 81259 08272 29174 23615 43445 14270 43699 82821  
44518 02188 16422 28822 25956 75946 05271 85060 85123 76555  
11343 49336 97210 47608 20232 02373 12035 87985 51873 71095  
02005 98676 32289

Attention (message repeated) Out

## E17z

### 11170/9820 kHz, 02-01/09-01, 0800/0810 UTC

217 859 6 69856 82541 98423 79033 15452 10002 859 6 00000

### 11170/9820 kHz, 16-01/23-01, 0800/0810 UTC

217 946 5 88620 58069 61732 74537 57330 946 5 00000

### 11170/9820 kHz, 30-01, 0800/0810 UTC

217 217 217 00000

### 10240 kHz, 30-01, 1411 UTC. E17z Training messages. Several stops and restarts.

274 (R) 893 10

11171 64385 82707 06123 22536 88280 84116 53718 78927 34694

893 ...

53718 78927 3

274 (R)

53718 78927 34694

893 10 00000

### 10240 kHz, 30-01, 1520 UTC. E17z Training messages. Several stops and restarts.

274 (R) 893 10

11171 64385 82707 06123 2253

274 (R)

11171 64385 82707 06123 22536 88280 84116 53718 78927 34694

893 10 00000

## G06

### 4519 kHz, 09-01, 1830 UTC

271 241 45

12435 76426 05698 65615 65790 43483 23453 83874 12453 16452

68716 08343 24102 88748 72657 03126 73561 61123 87122 83823

84774 61251 87891 23437 94526 13242 17964 43525 12121 21198

64265 42346 56781 44322 38765 32145 63451 22344 56944 13368

78265 14368 12346 73416 32442

241 45 00000

Windows XP shutdown sound

### 4792 kHz, 10-01, 1930 UTC

436 242 44

31532 37905 68553 78912 87443 94012 18514 01953 38414 13202

41945 23285 15802 65245 87462 78912 87463 94562 18912 84853

49067 42412 15464 75612 14352 34585 68553 23462 73459 41847

21250 10473 27624 17023 54332 81220 81244 41265 96183 74874

66753 78223 80329 38780

242 44 00000

Windows XP shutdown sound

### 4519 kHz, 23-01, 1830 UTC

271 271 44

11532 37595 68553 78912 87463 94712 18514 02953 38414 13202

42325 23285 15802 65245 87462 78912 87463 94562 14712 84853

53067 42412 15464 75612 14352 34585 68553 23462 73459 41847

21250 37473 27624 17923 54332 81620 81244 41265 96183 74874

66753 78203 80329 38780

271 44 00000

Windows XP shutdown sound



**4792 kHz, 24-01, 1930 UTC**

436 271 44

11532 37595 68553 78912 87463 94712 18514 02953 38414 13202

42325 23285 15802 65245 87462 78912 87463 94562 14712 84853

53067 42412 15464 75612 14352 34585 68553 23462 73459 41847

21250 37473 27624 17923 54332 81620 81244 41265 96183 74874

66753 78203 80329 38780

271 44 00000

Windows XP shutdown sound

**S06**

**16243 kHz, 16-01/17-01, 0830 UTC**

**13469 kHz, 16-01/17-01, 0930 UTC**

842 760 35

94528 20628 28174 80660 89469 53298 35949 14599 99214 26023

38201 12278 86018 83633 01942 97994 92536 20255 76967 91600

47394 00854 72362 34786 15368 05934 48732 95982 40645 41568

37094 08569 56585 81940 20361

760 35 00000

**S06c**

7823 kHz, 21-01, 1317 UTC, i.p. 11625 (R)

**S06s**

**Oddities**

**7062 kHz, 01-01, 0830 UTC**

464 915 7 87332 46509 21277 46550 20975 39880 15088 915 7 00000

S06s on 11535 kHz audible in the background

**7062 kHz, 15-01, 0830 UTC**

464 807 5 92103 50754 67971 25571 71582 807 5 00000

S06s on 11535 kHz in the background

**S11a**

Several unscheduled S11a transmissions popped up this month. Possibly propagation tests.

18636 kHz, 13-01, 0800 UTC: 655/00

17120 kHz, 15-01, 0700 UTC: 652/00

14611 kHz, 15-01, 0740 UTC: 650/00

15825 kHz, 15-01, 0840 UTC: 656/00

17378 kHz, 15-01, 1040 UTC: 654/00

16125 kHz, 15-01, 1140 UTC: 650/00

**5371 kHz, 03-01, 1100 UTC**

376/38 Vnimanaye

98233 94606 19710 06082 47572 26256 45415 49221 26639 04571

15991 83395 22277 98188 79685 62875 96244 19533 65603 69368

35537 76875 91527 38321 15270 55036 19752 45726 77852 23209

35782 28406 17328 65501 17785 01924 68687 80245

Vnimanaye (message repeated) Konets

**7600 kHz, 21-01/24-01, 1020 UTC**

427/33 Vnimanije

10255 35445 68064 48620 91606 69107 89727 89135 55981 07249  
46312 30203 39679 96555 53508 73151 42883 16699 15918 48876  
90678 24608 14277 98582 45676 78049 51311 64731 60020 59775  
65312 20886 83180

Vnimanije (message repeated) Konets

**9057 kHz, 27-01/29-01, 0510 UTC**

659/37 Vnimanije

32611 00293 05582 62594 25064 98907 05643 55546 60996 51402  
24925 63895 72462 87510 00544 84395 32574 60324 49428 50582  
73057 43149 32187 41863 24747 88442 71341 26188 87523 14477  
61404 16068 57486 74271 48299 31119 82542

Vnimanije (message repeated) Konets

**9050 kHz, 27-01/30-01, 0700 UTC**

471/33 Vnimanije

02060 03941 78245 60637 67600 40517 57909 41321 10795 14122  
07875 97739 19094 42650 55294 01867 83695 98301 77499 59812  
39730 51660 22208 92421 23536 60278 20434 96360 37976 93572  
60948 96441 92410

Vnimanije (message repeated) Konets

**4242 UTC, 27-01/31-01, 0915 UTC**

484/39 Vnimanije

91453 83277 08309 55930 03384 56680 26034 06291 98761 52796  
39961 09799 92173 54408 33067 78210 59857 44621 58580 11010  
33114 09948 53107 82930 79010 31637 73772 02030 60200 26820  
64150 14423 11306 07341 66250 92274 14995 98872 65575

Vnimanije (message repeated) Konets

**V06**

Danix copied a V06 transmission. Probably an exercise. Nice catch!

**10755 kHz, 29-01, 0830 UTC**

975 975 975 89412 (R4)

975 975 975 89412 (R1)

248 30

85340 28247 39957 87573 11710 91406 53657 52103 47227 96919  
38720 54275 89143 95659 47642 22162 80815 94423 39479 51421  
77373 28020 59050 95019 63049 89656 07626 10460 56104 99319  
248 30 00000

**V07**

**15893/14693/13893 kHz, 12-01, 0100/0120/0140 UTC**

868 868 868 1 5875 106 5875 106

17027 13015 91275 02508 97327 19762 90700 98962 84708 02311  
82698 42474 12220 08939 39326 02849 02914 67220 22849 54363  
22005 19182 77737 98686 71014 54709 06820 33670 80380 58908  
74965 82158 23743 23741 88280 88404 66600 52542 53281 05997  
68264 97094 63283 20565 81093 32306 48175 24925 29964 56501  
42752 33796 09099 04046 54760 00360 31546 79199 84298 07195  
96961 54911 17806 78097 60468 58105 47646 29407 67897 91488  
81204 70670 11625 94518 51384 15601 00187 05760 07307 51161  
36786 22773 53138 59253 92055 08794 70630 25801 65783 88991  
14164 26278 58684 56920 13592 66582 72340 28597 10523 49150  
29806 60647 51709 01181 45723 53667 000 000

**15893/14693/13893 kHz, 19-01, 0100/0120/0140 UTC**

868 868 868 1 555 142 555 142 56763 09377 38942 00622 91986  
35609 41284 43315 93275 32047 64233 64983 38047 18375 02305  
37897 53969 03344 19463 33822 36664 48823 66302 07034 74750  
88088 77363 08400 30242 28633 65455 25944 33139 29677 06802  
53518 72808 36583 93642 04257 86283 19603 34388 92455 12756  
29967 56019 76064 74412 70446 51557 70337 68046 69245 57176  
03086 16539 77114 42045 57026 40105 41250 01037 56177 01385  
73722 23454 53579 46607 56319 73000 71162 82743 02379 83955  
59383 89514 30649 37770 18674 81729 53667 17850 15967 30580  
19224 03147 66151 24188 97979 15395 74974 33838 60909 27312  
73012 38641 29465 59316 07026 66514 66004 25495 86697 19761  
04567 24848 00423 75891 84990 21900 74325 42318 16452 85627  
20419 06902 98820 29083 62805 68832 46083 42978 59770 03244  
72435 96809 64301 16158 57685 34125 80717 94892 99098 68745  
75486 31401 31138 64633 67961 08582 29701 000 000

## MORSE STATIONS

### M01

**4490 kHz, 02-01, 2000 UTC**

197 528 528 30 30 = =  
76749 64281 00061 02595 38431 34652 80198 97312 26702 09141  
02934 14792 73100 89438 89438 84716 73829 83899 06638 EEE 93638 58246  
96533 75436 98454 56513 30239 76462 50407 52407 44890 07473  
= = 528 528 30 30 000

**5810 kHz, 04-01, 1500 UTC**

197 112 112 30 30 = =  
93090 33818 30016 46677 54392 92980 73257 33116 65767 99817  
38678 95492 59788 00206 58913 28653 30366 38691 68274 59671  
52440 54212 63627 36696 31637 82933 30033 03840 27020 90534  
= = 112 112 30 30 000

**5465 kHz, 05-01, 0700 UTC. Different repeats in red**

197 281 281 30 30 = =  
98869 51726 81174 10434 19434 80298 84272 17330 91866 66031 10695  
06658 67969 70927 57671 59592 18979 66816 90472 03910 75223  
80949 06272 98631 41910 71910 59277 06742 19813 49540 76904 41757  
= = 281 281 30 30 000

**5320 kHz, 07-01, 1800 UTC**

197 411 = 30 411 = 30 = =  
16745 39813 72027 85910 54775 29041 55650 18985 32577 53805  
60423 81635 88604 04478 78288 84199 07589 70350 77090 96209  
39141 63672 00871 71703 27346 36739 29028 94581 10451 23000  
= = 411 411 = 30 30 000

**4490 kHz, 07-01, 2000 UTC**

197 537 537 = 30 30 = =  
90753 28170 24802 33414 08772 28619 04843 13808 99365 74210  
35364 02841 66361 01579 73487 33631 85695 03065 44364 99206  
64719 10763 57747 05034 98966 15043 86084 55627 72732 00371  
= = 537 537 = 30 30 000

**4490 kHz, 09-01, 2000 UTC**

197 617 617 30 30 = =  
87909 51391 34394 76007 21603 19667 57205 47088 24247 07249  
73015 16935 64342 17106 54585 55171 93749 60445 00094 22471  
85282 78050 12243 92535 78354 18412 46982 91792 84371 07773  
= = 617 617 30 30 000

**5810 kHz, 11-01, 1500 UTC**

197 825 825 30 30 = =  
16745 39813 20527 85910 54775 29041 55650 18985 32577 53805  
60423 91635 88604 04478 78288 84199 07589 70350 77090 96209  
39141 63672 00871 71703 27346 36739 29028 94581 10451 23000  
= = 825 825 30 000

**5465 kHz, 12-01, 0700 UTC. Error in red**

197 602 602 602 60 26 = 30 30 = =  
90753 28170 24802 33414 08662 28619 04843 13808 99365 74210  
35364 02841 66361 01579 73487 33631 85695 03065 44364 99206  
64719 10763 57747 05034 98966 15043 86084 55627 72732 00371  
= = 602 602 = 30 30 000

**4490 kHz, 14-01, 2000 UTC**

197 373 373 30 30 = =  
02930 93173 76863 67291 11363 03717 38304 48627 53647 76369  
85101 29477 90020 41582 16669 35766 63595 43718 55455 94664  
79232 72995 18583 26341 36077 53463 63870 97259 21380 38791  
= = 373 373 30 30 000

**4490 kHz, 16-01, 2000 UTC**

197 219 219 = 30 30 = =  
83217 45759 88305 48630 84655 51408 70032 59789 22501 30586  
14792 52986 31339 34885 57294 39602 56164 16343 28789 74096  
59243 98852 26663 73683 28988 15163 70512 44728 89077 71629  
= = 219 219 = 30 30 000

**5465 kHz, 19-01, 0700 UTC**

197 981 981 30 30 = =  
98366 30933 90124 18387 37213 25307 74109 34938 62138 64992  
26738 99467 82485 65721 57014 59783 97223 36373 97177 53767  
62537 55163 42600 42504 43589 49651 15821 40248 74576 12712  
= = 981 981 30 30 000

**4490 kHz, 21-01, 2000 UTC**

197 117 117 30 30 = =  
71040 24332 73019 64233 76615 56374 21535 43075 21672 68047  
85451 23845 36808 49875 96054 18787 38554 18662 67511 34122  
36176 31803 65339 39084 77458 57848 39102 31053 97031 08045  
= = 117 117 30 30 000

**4490 kHz, 23-01, 2000 UTC**

197 746 746 30 30 = =  
24035 48158 25486 20961 84934 78617 93869 52690 42596 67690  
97941 23053 48323 58784 40509 43933 89809 12583 02953 30295  
44786 45590 20191 67833 66817 72594 37329 38210 85387 89067  
= = 746 746 30 30 000

**5810 kHz, 25-01, 1500 UTC**

197 371 371 30 30 //  
02493 60231 84553 79914 05161 05736 23943 04926 16264 00792  
90587 82519 66086 43808 99004 13899 08989 94653 00335 18403  
49079 17799 74280 33530 97983 41947 88917 99031 89266 38439  
// 371 371 30 30 000

**5465 kHz, 26-01, 0700 UTC**

197 387 387 30 30 = =  
31341 56081 08039 87757 62674 98645 13753 19115 52112 48543  
78463 89650 77408 06786 07349 60936 35555 26945 12456 94621  
51582 95064 84514 50962 63889 75157 67177 49493 08206 43523  
= = 387 387 30 30 000

**5320 kHz, 28-01, 1800 UTC**

197 223 223 30 30 = =  
51940 45671 02731 22755 52375 96189 94851 97215 60070 26295  
40934 66906 32347 76503 99914 49240 57332 77124 54565 53349  
51110 12809 74082 40713 53391 03187 41091 64411 78504 41254  
= = 223 223 30 30 000

**5320 kHz, 30-01, 1800 UTC. Message as sent. Oddities in red**

197 599 599 30 30 = =  
38447 38447 90200 90200 24094 24094 21080 21080 37410 37410  
30563 30563 41589 41589 84528 84528 96865 96865 61195 61195  
93592 93592 99540 99540 32551 32551 67332 67332 84832 84832  
44389 44389 71701 71701 59411 941 59443 594335624 EE562 5662  
662 20753 20753 55195 55195 551'5 55195 43830 43830 19956  
19956 26323 26323 68660 68660 97015 97015 40218 40218 01661 01661  
= = 599 599 30 30 000

**4490 kHz, 30-01, 2000 UTC. Oddities in red**

197 974 974 30 30 = =  
33977 01651 10458 95774 21887 67324 39554 96269 66151 665 4776347763  
16705 30905 72065 10099 54938 95058 36425 92149 86249 81367  
96857 95938 01679 73166 27023 30905 86867 13173 24202  
= = 974 974 30 30 000

**M01a**

**4989 kHz, 08-01, 0925 UTC, i.p.**

= 648 10  
111 000

**4146 kHz, 15-01, 0816 UTC, i.p.**

832 83 832 83291 83291  
832 83 832 83291 83291  
111 000

**4544 kHz, 15-01, 1105 UTC, i.p.**

111 333 18  
111 999  
856 10 / xxxxx xx860 54023 73880 58969 73841 63834 61556 63795 99637 / 856 10 000

**4418 kHz, 15-01, 1522 UTC, i.p.**

333 31998 31998 333 31998 31998 333 31998 31998  
333 31998 31998 333 31998 31998 333 31998 31998  
333 32538 32538 333 32538 32538 333 32538 32538  
333 32538 32538 333 32538 32538 333 32538 32538  
333 33138 33138 333 33138 33138

**4987 kHz, 16-01, 0945 UTC, i.p.**

x5389  
111 999  
85810 = 10 = 98746 5  
85810 = 98746 54651 68174 35719 65431 51742 63272 14965 34165 86745 = 858 10  
111 = 35719 65431 51742 63272  
111 000

**4987 kHz, 16-01, 0952 UTC**

31 351 351 63893 63893  
351 351 351 63893 63893  
351 351 351 63893 63893  
51 351 351 63893 63893 351  
111 999  
542 10 = 87004 17984 56540 89704 15741 58708 41897 4  
111 = 542 10 = 87004 17984 56540 89704 15741 58708 41897 41049 60106 13987 = 542 10  
333  
111 = 542 10  
111 = 542 10  
111 000

**5306 kHz, 16-01, 0947 UTC, i.p.**

111 111  
0 3 0 1  
783 783 783  
111 999 0  
651 30 =  
02982 36354 43603 29888 15999 43252 05583 47579 80753 76378  
69904 99568 69879 57406 32849 29328 16923 88963 91713 17558  
62025 76920 53596 64409 64248 78175 53685 03349 36273 89892  
= 651 30  
111 999  
784 30 =  
51858 58063 99520 02036 19408 91495 13175 02607 60214 07960  
68634 77772 57206 46439 98005 81972 94472 06359 06289 15918  
43125 45341 45469 93349 10127 29116 06543 59319 90577 xxxx4  
= 784 30 000  
111 000

**5858 kHz, 27-01, 0746 UTC**

564 546 564 56912 56912  
564 564 564 55886 55886

**5173 kHz, 27-01, 0800 UTC**

564 564 564 24262 24262

**6769 kHz, 27-01, 0902 UTC**

598 598 598 30482 30482  
598 598 598 10482 10482  
598 598 598 12274 12274

**4989 kHz, 28-01, 1027 UTC, i.p.**

316 316 316 67362 67362  
316 316 316 6736  
111 0 0 0

**4989 kHz, 28-01, 1313 UTC**

316 316 316 67279 67279  
316 316 316 672  
111 999  
619 10 = 47035 47684 32168 04716 57408 16874 09865 74061 03549 80416 = 619 10  
111 = 47684  
111 0 0 0

**5744 kHz, 28-01, 1612 UTC**

273 273 273 625 09 625 09  
273 273 273 628 08 628 08  
273 273 273 632 88 632 08

**4321 kHz, 29-01, 0916 UTC**

61121 61121  
267 267 267 61121 61121  
267 267 267 61121 61121  
267 267 267 61121 61121  
267 267 267 61121 61121  
267 267 267 61121 61121  
267 267 267 61041  
267 367 267 61041 61041  
267 367 267 61041 61041  
267 367 267 61041 61041  
267 367 267 61041 61041  
267 367 267 61041 61041  
267 367 267 61041 61041

**3830 kHz, 29-01, 1355 UTC**

903 903 903 957 87 957 97  
903 903 903 957 87 957 97  
111 111  
111 000

**M01b**

**2470//3545 kHz, 02-01/09-01/16-01/23-01, 1932 UTC**

**2470//3545 kHz, 30-01, 1932 UTC. Carrier only on both frequencies**

910 712 712 31 31 = =  
04590 89706 14348 30194 73700 11891 43550 07641 38556 47903  
28361 55934 24799 88028 81367 52035 01061 14765 98597 40370  
74754 03650 90055 75388 85070 50764 01270 48626 21891 90085  
79437  
= = 712 712 31 31 00 (two zero's)

**2485//3160 kHz, 02-01/16-01/23-01, 2040 UTC**

**2485//3160 kHz, 09-01, 2040 UTC. 2485 kHz no transmission. 3160 kHz carrier only**

**2485//3160 kHz, 30-01, 2040 UTC. Carrier only on both frequencies**

382 712 712 31 31 = =  
04590 89706 14348 30194 73700 11891 43550 07641 38556 47903  
28361 55934 24799 88028 81367 52035 01061 14765 98597 40370  
74754 03650 90055 75388 85070 50764 01270 48626 21891 90085  
79437  
= = 712 712 31 31 000

**2655//3195 kHz, 03-01/10-01/17-01/24-01/31-01, 2002 UTC**

866 712 712 31 31 = =  
04590 89706 14348 30194 73700 11891 43550 07641 38556 47903  
28361 55934 24799 88028 81367 52035 01061 14765 98597 40370  
74754 03650 90055 75388 85070 50764 01270 48626 21891 90085  
79437  
= = 712 712 31 31 000

**2405//3180 kHz, 03-01/10-01/17-01/24-01/31-01, 2110 UTC**

610 712 712 31 31 = =  
04590 89706 14348 30194 73700 11891 43550 07641 38556 47903  
28361 55934 24799 88028 81367 52035 01061 14765 98597 40370  
74754 03650 90055 75388 85070 50764 01270 48626 21891 90085  
79437  
= = 712 712 31 31 000

**2435//3520 kHz, 06-01/13-01/27-01, 1910 UTC**

**3520 kHz, 20-01, 1910 UTC. No transmission on 2435 kHz**

853 712 712 31 31 = =  
04590 89706 14348 30194 73700 11891 43550 07641 38556 47903  
28361 55934 24799 88028 81367 52035 01061 14765 98597 40370  
74754 03650 90055 75388 85070 50764 01270 48626 21891 90085  
79437  
= = 712 712 31 31 000

**2425//3205 kHz, 06-01/13-01/27-01, 2015 UTC**

**3205 kHz, 20-01, 2015 UTC. No transmission on 2425 kHz**

375 712 712 31 31 = =  
04590 89706 14348 30194 73700 11891 43550 07641 38556 47903  
28361 55934 24799 88028 81367 52035 01061 14765 98597 40370  
74754 03650 90055 75388 85070 50764 01270 48626 21891 90085  
79437  
= = 712 712 31 31 000

## M12

**12162/11566/10711 kHz, 09-01, 1700/1720/1740 UTC**

546 546 546 1 2285 107 2285 107  
75419 30520 77315 06356 54175 89467 88015 75310 82205 83604  
73094 52900 55512 97835 21084 87909 27608 23769 40272 26907  
32246 78323 90239 49244 54808 65725 25338 42306 65832 16495  
21924 69430 62759 70997 65375 79166 61831 97317 37975 61955  
80911 95934 49344 99474 37405 76013 97611 31475 60850 47978  
59130 60552 57175 06911 73588 83462 28964 77059 69718 64750  
83077 52335 20654 48107 10597 33356 85608 99386 07934 17312  
48604 24158 40308 59209 60935 59841 11117 48726 23939 30562  
61711 97610 66869 17361 28197 79805 99736 03748 28070 30238  
17748 58381 45854 14404 43594 88597 85500 57292 19400 63684  
90168 19901 72929 77169 71711 10628 21580 000 000

**12162/11566/10711 kHz, 09-01, 1800/1820/1840 UTC**

546 546 546 1 5247 105 5247 105  
41348 41169 55492 36260 74716 56945 48032 60941 90202 19410  
44372 36963 73979 31051 13318 78597 93052 06864 72443 28155  
11569 60870 50718 07935 68984 67189 22381 60081 84444 30833  
02377 04677 55852 93974 76234 37141 35419 00523 87080 25064  
14497 69908 98142 92162 46249 02551 63669 19840 53723 50758  
86467 17698 79439 56977 14687 52953 93302 84057 87837 26441  
80335 68798 80923 14117 73225 51092 56386 79296 58827 25973  
12336 11464 14673 90991 05574 25721 80952 67947 05910 93135  
18914 75446 61248 03657 91083 36695 71155 42456 23571 07928  
84147 25980 87953 19880 46520 05888 29572 97202 18598 83898  
14359 50725 36480 45508 15058 000 000

**8047/6802/5788 kHz, 11-01, 2000/2020/2040 UTC**

463 463 463 1 8486 100 8486 100  
09773 01251 08783 66149 66497 64220 83665 98902 75386 06705  
01119 58433 07685 84649 52976 01487 80757 89857 32505 19376  
86759 63850 70955 99993 50282 69325 67245 87665 33427 46258  
17591 11744 65353 22068 49529 69766 45072 80113 31420 79241  
25736 62543 77874 69249 87081 98094 36327 62152 02912 71509  
87355 73818 97792 42203 21668 50554 28643 35013 92745 60253  
64535 19648 68865 27487 55308 82541 90646 29920 77920 23997  
47060 15184 97825 66570 21684 28571 80546 20199 30817 99100  
72962 02807 70517 62803 97513 80657 48576 87272 74240 18792  
79213 65012 24435 54980 22896 02746 88023 15086 69644 89221  
000 000



**6786/7986/9286 kHz, 12-01, 0600/0620/0640 UTC**

792 792 792 1 6506 88 6506 88  
71491 69262 44256 63587 24287 05246 61726 98519 26815 47235  
42100 02434 06221 09121 06929 00989 50115 98795 26408 02016  
61983 32003 30241 29385 86933 93630 54495 97979 90328 06974  
55503 75511 99523 09221 39842 14033 60683 10885 47326 36098  
50206 27836 53536 93217 76712 14622 80641 12969 94705 98442  
64486 19688 48088 55408 18205 39176 50690 70351 09786 40297  
65072 16677 50968 02726 85089 97008 07742 60897 57499 34058  
22879 19649 02324 85820 87085 34057 63511 74888 83804 71332  
86046 50701 84628 33653 76034 55107 97319 53413 000 000

**10547/9047/7547 kHz, 13-01/15-01, 1400/1420/1440 UTC**

505 505 505 1 424 144 424 144  
39000 64142 44869 87495 81211 98541 23404 40238 05522 09420  
52779 15172 80049 40246 09104 68065 49792 92885 60849 38104  
93017 52670 93315 98229 20763 36647 90593 03986 41314 85784  
32441 29886 35685 18352 41640 87144 02219 63363 58937 45539  
13576 34332 83587 47644 39882 70023 67710 65586 21904 61537  
09149 92922 13305 70577 46035 68473 07100 64988 07615 12428  
18699 93976 61181 62164 62719 54353 89326 01209 89778 62716  
15169 07729 56951 20321 72853 68603 13979 78636 06367 65982  
89726 90718 50764 00466 13420 16627 20541 86657 66342 51003  
90447 96072 85966 90741 71975 40345 03446 79318 26305 01392  
89895 91109 40465 40938 48144 94501 33585 03277 67969 20798  
73061 43655 61074 22006 40746 74062 67413 98789 94977 82352  
65190 49560 73486 41295 92570 18475 92721 83607 36782 53642  
92614 14644 41886 14602 69798 34212 14682 20435 86374 87349  
88108 05988 94427 21955 000 000

**8047/6802/5788 kHz, 13-01, 1800/1820/1840 UTC**

463 463 463 1 5441 99 5441 99  
64189 19437 99052 25384 12687 80564 22835 77444 44296 61234  
14717 78300 04785 61705 51940 69610 78223 85768 84334 97340  
44289 05300 72103 21557 14016 17690 96215 36323 22660 62292  
82878 03028 29390 10940 68214 88409 85672 77425 05141 39769  
62796 09729 28929 62562 35690 06701 90813 57712 70133 16954  
03035 15885 32710 19883 95444 33368 47251 50552 99859 52021  
17014 49682 71191 50194 04263 06859 02146 67116 64634 87943  
51080 75374 80091 50724 88037 68925 37324 91339 13467 63629  
70694 61704 85110 16851 37333 44351 22728 31477 74291 52266  
94106 96360 18191 68827 02174 85317 22682 80768 68876 000 000

**9317/10484/11552 kHz, 14-01, 0530/0550/0610 UTC**

135 135 135 1 5755 112 5755 112  
93619 77656 03808 31841 99350 20994 83808 61868 39421 61331  
37499 90006 67618 75812 25057 94143 17570 18808 50511 53234  
12119 86819 49675 92817 86726 29841 62702 85482 40714 63851  
34165 45047 98492 22647 38083 89580 80328 20148 36912 65791  
47488 53227 59148 84110 10164 78957 22665 06442 87872 35424  
14589 36730 74754 22498 29782 31430 23716 86871 48134 40320  
01541 16765 21338 47586 64673 38437 37139 07305 19119 24840  
65563 64807 22382 40037 73534 72471 80931 72493 68322 86295  
14463 30126 39089 13974 15091 80205 10529 45207 71230 77431  
56543 64554 27065 33895 50897 03694 06990 44083 90755 00686  
39486 57573 37504 57160 82065 42237 96820 02125 69350 24610  
28078 09831 000 000

**6786/7986/9286 kHz, 14-01/16-01/19-01, 0600/0620/0640 UTC**

792 792 792 1 401 156 401 156  
25426 51360 79119 79252 38072 79557 66175 37719 38727 54997  
63226 76305 24061 27473 79647 25497 99491 54733 69801 60984  
84162 04602 28066 38763 63362 72787 29708 22272 19257 05546  
61781 77460 97827 03213 01968 99216 67203 58598 73095 85343  
10734 50543 91993 46685 35829 62494 92655 21262 46349 81860  
57706 40673 42251 60460 70196 07618 89856 08752 21247 84625  
41187 00023 74892 55385 41272 12515 16122 82865 43490 65606  
93272 70891 44266 92374 60675 47908 48433 50462 40469 85457  
36374 82800 06575 27339 71357 17004 09112 18365 28011 22101  
11139 35029 98857 86409 87898 54038 04438 84285 27922 21649  
67720 97863 13039 39359 16018 24405 36680 33594 24338 22943  
69037 55190 22329 04197 06609 28576 31622 95141 67955 86324  
39046 17722 18313 23688 10716 89213 83018 51672 95993 05512  
29470 07115 35672 03725 09752 88568 39562 74616 32964 92383  
46929 47062 41809 15750 03888 36936 18169 60272 64301 74705  
75654 49616 51511 41871 43270 56576 000 000

**11439/10339/9239 kHz, 12-01/16-01/19-01, 0110/0130/0150 UTC**

432 432 432 1 9581 108 9581 108  
52423 45118 38883 95682 30587 66381 49864 47094 66010 36164  
14394 91362 48907 10842 44908 15091 40380 96453 77815 13564  
41123 04598 11444 55071 95889 70915 19363 93939 09889 54779  
00669 79991 29289 52423 52835 59709 71409 31342 29953 57743  
08367 61628 29983 70768 82654 51292 85753 91488 82944 38057  
84536 44421 76117 66998 12939 83318 91745 22016 17229 50589  
80895 20056 38385 63944 78358 84120 61951 23316 75588 46246  
65859 55715 51225 02888 46420 49743 41934 65134 60326 70032  
95610 85562 10632 45382 89684 20527 85577 80073 48470 21342  
17150 97069 35441 65723 02856 89543 71382 17126 44115 81064  
23388 68488 47682 00500 82965 87237 03673 23089 000 000

**12162/11566/10711 kHz, 16-01, 1700/1720/1740 UTC**

546 546 546 1 8775 111 8775 111  
49429 47794 93353 36285 58021 58994 63732 63074 70813 81094  
48301 69214 67748 56936 06438 49882 37040 70716 70838 02437  
22724 84027 60390 86340 59769 97058 15509 10791 39449 66929  
39932 34034 13536 15299 88327 54362 27854 25285 60450 94088  
13031 45756 91301 35993 53443 74817 03580 97430 68626 46437  
44142 89503 07575 66592 50687 76288 19543 61052 91499 93869  
81401 38375 17712 02149 45973 46687 38589 05420 78300 23279  
72465 31777 72491 31912 57842 62871 03890 14926 87753 43396  
03053 03948 13056 34599 91653 79217 38900 62250 74545 57189  
07497 87515 01865 23950 01991 56208 07417 54931 97009 65882  
17688 88471 24435 36680 84640 30905 98387 21528 79119 42746  
98983 000 000

**12162/11566/10711 kHz, 16-01, 1800/1820/1840 UTC**

546 546 546 1 1646 108 1646 108  
69536 66683 39296 67824 30966 87195 55531 97710 59835 95898  
14310 69967 94727 83977 90729 41517 38203 11325 97031 01557  
55029 16126 43893 01796 60717 29408 26041 87012 49161 69191  
94690 58846 22133 73475 21662 68000 37499 89136 99549 18823  
34338 78963 67833 47235 81005 35170 80867 84102 09490 20115  
36475 14275 26255 69265 06115 87103 23016 25116 31359 37834  
38554 74326 43242 86083 08091 93611 18760 47469 82842 08820  
66003 57545 47105 55547 12495 89670 04315 48635 71915 00896  
43459 32055 51835 94040 79290 92344 80615 70811 27189 53555  
59388 50549 19607 54687 96838 08494 67789 86820 64310 20013  
16786 91008 76593 42818 86481 42625 07363 99819 000 000

**8047/6802/5788 kHz, 18-01, 2000/2020/2040 UTC**

463 463 463 1 7187 93 7187 93  
16095 82748 70081 32958 90947 34688 23867 82951 60475 26636  
54582 06611 36866 41412 13241 96184 77312 87036 16737 01711  
12505 20163 34764 53748 60041 55960 88063 52259 76303 68091  
73325 01090 60464 44139 30140 06914 65043 45712 31352 61758  
27698 61815 42943 10029 96016 16623 88321 98056 36568 02811  
61458 56537 05676 58633 29465 31335 98417 74745 22686 79792  
15588 76894 42288 11509 11270 92699 43403 32629 05890 00794  
64601 03778 40890 18254 94209 52260 95652 90142 04845 17899  
18255 11505 81169 94370 44234 45859 83379 12191 80334 83246  
53184 75901 52006 000 000

**10547/9047/7547 kHz, 20-01/22-01/27-01/29-01, 1400/1420/1440 UTC**

505 505 505 1 284 39 284 39  
74699 61769 33272 15304 48450 70923 19104 46755 66953 44474  
86646 52365 40531 80595 94408 94162 80795 00320 92994 73776  
66125 62808 33980 96436 60444 04573 21135 88872 34169 98892  
79763 34204 24408 22901 21408 51161 65903 27219 91774 000 000

**6937/5737/4537 kHz, 20-01/23-01, 2210/2230/2250 UTC**

975 975 975 1 187 84 187 84  
36467 18445 58273 53653 56899 84286 22403 01528 12717 90697  
42660 99803 41308 18816 06386 35100 58951 28273 76800 24860  
70536 45583 07664 22909 72794 08739 39927 90570 65861 86231  
05535 15722 45281 65705 97567 12346 09674 17459 58894 19048  
59526 41497 90248 87974 82151 69186 19350 43743 17038 17839  
77488 44388 75033 77220 95374 14029 41193 63944 28931 17522  
33045 24228 76126 21073 86513 04041 33673 78605 14171 58208  
14991 36247 86531 60731 85501 19090 56421 49970 31428 84846  
89196 80685 82859 25693 000 000

**6786/7986/9286 kHz, 21-01, 0600/0620/0640 UTC**

135 135 135 1 8986 112 8986 112  
33352 51726 62293 64682 90393 05210 17052 04985 23909 42940  
76850 26881 47907 55793 32925 69313 67295 03855 24240 16654  
75521 71626 76813 13247 18660 20135 52776 55592 02047 09758  
69802 31725 17484 81939 93855 94042 91993 85820 54311 86880  
32371 74499 62195 43587 64129 56951 18727 19833 88440 21200  
18508 09531 18986 89571 99244 15891 44631 54461 02836 83020  
34624 32218 71231 72532 97765 82724 60634 73806 39178 05612  
40738 28093 61193 74962 44928 25554 56853 06233 98376 74032  
82705 39902 91329 96356 25331 68683 19638 73283 68328 86618  
31262 55107 73128 68401 20278 40441 74522 15841 22741 11248  
59126 75958 29667 93555 54547 42582 92600 68546 50423 25655  
28892 67461 000 000

**16357/17457/18357 kHz, 22-01/26-01, 0800/0820/0840 UTC**

343 343 343 1 465 123 465 123  
90569 86073 23564 04278 44927 66147 16539 04546 22387 35406  
92479 55063 61335 25649 80603 99778 00712 92644 58275 64261  
62687 45686 66467 80472 07307 66151 30870 05203 23149 43056  
19513 11894 21502 49931 11248 40428 70503 66622 43911 31066  
73817 85374 55277 33828 72674 87225 88499 14945 94900 39019  
48061 00328 31575 48262 49392 41011 34133 43731 75596 87930  
37029 30495 46010 65425 00348 77341 03787 17859 56685 97318  
16363 92727 95143 35664 69466 18996 42303 09027 50585 95495  
36190 29987 58214 16783 68285 74136 90154 11089 80042 61825  
13467 24632 24926 00210 58571 82803 25767 67162 00737 27579  
88643 74319 62520 14445 60657 78309 73656 88967 25909 15627  
41515 22858 07262 04225 19062 23735 89639 19254 86813 97573  
34077 92816 84542 000 000

**6786/7986/9286 kHz, 21-01/26-01, 0600/0620/0640 UTC**

792 792 792 1 7582 112 7582 112  
28047 88206 45778 91410 39331 87795 46570 57687 09666 63596  
50173 38687 65172 06872 63741 30162 82516 30641 88634 13917  
44653 15861 06905 42024 33825 44327 05638 15273 63505 09747  
95768 88539 34840 29602 79757 07281 34257 20753 37351 98087  
72720 94371 52552 36062 60844 27480 35138 64844 82953 31722  
76450 72767 61735 99401 81202 36680 93542 10486 49474 29595  
33120 20509 35568 61433 64266 56505 95293 25878 85711 54696  
10689 08172 01219 96257 75783 20406 73581 79747 59151 35258  
83444 24388 28075 59377 20823 12495 72108 04902 52525 15462  
14181 02070 94664 06328 84248 80037 07143 25155 90331 64354  
86605 05060 16324 36707 45321 05852 33462 12197 14502 14087  
08912 09404 000 000

**9317/10484/11552 kHz, 28-01, 0530/0550/0610 UTC**

135 135 135 1 8588 108 8588 108  
48259 81863 11394 04011 75527 01469 70514 29195 45345 20334  
05968 92528 72626 99806 42964 21394 78500 14223 38289 68631  
79209 60276 42287 09660 69648 96492 12827 22134 09573 20091  
12295 77055 51535 51761 08548 44365 80441 83956 31054 63261  
15116 79250 56328 86815 88129 86857 35436 52402 91166 53274  
24340 63935 23235 69895 35511 48552 65825 92924 56318 57196  
64026 20882 33410 07641 26342 09356 77106 93640 74861 26202  
40650 27447 94326 00119 12178 11223 33264 72763 16761 69775  
74686 79625 38322 32251 43350 24540 52693 22334 92284 43354  
13208 82232 00596 85954 52392 77585 82755 67136 57957 46270  
03545 02912 47600 85676 65051 71547 72139 43955 000 000

**6786/7986/9286 kHz, 28-01, 0600/0620/0640 UTC**

792 792 792 1 7441 82 7441 82  
45769 58737 93581 67170 85580 51399 79777 93523 72094 10126  
86377 39878 60614 53207 23229 37252 05861 23272 31953 47986  
53056 18954 68395 46545 13415 08844 73904 20452 38655 94563  
60993 35278 98429 33543 97374 28228 44265 11365 31227 32522  
08874 95445 01428 27399 14725 33000 58692 79419 81487 10545  
88564 19560 48460 41150 52233 52615 60761 44141 38251 42109  
36177 57472 77142 69665 56576 97849 11500 73255 92100 55760  
21190 94302 25128 03320 75322 26595 37885 27803 68511 15739  
51818 65864 000 000

**13932/13532/12132 kHz, 29-01/31-01, 1310/1330/1350 UTC**

951 951 951 1 423 56 423 56  
62259 58559 19870 27606 63720 02491 02081 67630 19590 69029  
33141 49127 71518 96923 42735 28257 02326 71918 08127 12919  
42210 63761 75012 17785 12366 90022 44411 35110 91389 78091  
60655 31632 77257 88669 89315 51365 93187 73504 45395 37826  
25235 31331 93281 24869 78422 68823 64069 69847 12470 88089  
22818 04220 26779 27809 55664 38498 000 000

**12162 kHz, 29-01, 1710 UTC. Stops and restarts at 1713 UTC**

**11566/10711 kHz, 29-01, 1730/1750 UTC**

546 546 546 1 9039 110 9039 110  
20168 44611 60632 90719 34131 65230 81746 45621 70238 60115  
89575 33452 05743 63720 65600 01747 54926 72369 98780 40725  
51912 23683 26775 61680 86688 49203 09434 98948 54786 86212  
28582 19975 21446 48862 81178 23295 42039 01493 50595 71988  
72835 56906 14070 21317 66665 40786 75457 46372 04981 05277  
29569 65905 70927 08579 62288 80539 61708 15848 16403 30683  
39135 07944 87234 96930 88745 31700 35772 62374 72999 54510  
55962 61982 45953 52534 21929 79818 93664 10463 73945 57995  
50254 07008 53799 37050 38860 73350 85946 09946 32668 42644  
25462 47761 52502 37378 58432 84633 27852 76162 99242 44627  
51244 57869 88074 11718 01924 59124 39539 23449 05604 73260  
000 000

**11439/10339/9239 kHz, 30-01, 0110/0130/0150 UTC**

432 432 432 1 8342 94 8342 94  
88228 19340 50919 46376 23777 38070 76276 71129 37943 67195  
02389 36306 89162 38986 70035 47460 77394 89621 96041 33410  
38731 82736 61107 69634 78557 38061 34380 60440 39299 03735  
45569 19488 84352 10949 83789 40644 01232 55478 73733 58392  
68173 92232 71352 73057 27114 27951 46936 51145 63327 38844  
54396 00564 44484 66109 65382 05514 44414 80972 51633 97446  
04808 08290 07717 71938 86539 72359 05524 64427 59743 71728  
80538 51336 71485 39021 44281 40885 78378 22467 66677 07935  
30996 54240 35024 88396 95570 97709 67549 13730 60365 56791  
35362 90854 83352 36856 000 000

**5778/6778/8178 kHz, 31-01, 2200/2220/2240 UTC**

771 771 771 1 147 67 147 67  
18369 72918 11636 79459 45966 65647 21102 43174 29689 27206  
90242 77882 79492 07222 78207 94274 62045 70707 66102 52874  
35893 49943 63320 65564 33160 14229 69302 83243 20295 93555  
04741 32392 64457 81505 69353 54168 70515 32855 06133 42609  
59703 53208 76941 81434 13164 05183 49713 62003 00345 35038  
16415 08908 81973 79471 06818 36089 81533 42026 82733 35081  
91562 63481 14312 00945 70177 45216 47152 000 000

**M14**

**4730 kHz, 04-01, 0800 UTC**

**4650 kHz, 04-01, 0900 UTC**

523 421 421 33 33 = =  
75683 65412 89032 79231 90234 65232 98765 13579 24680 14790  
08642 97531 12789 78523 13457 46257 39456 12568 67345 97123  
39045 58596 25790 21349 64321 79658 12457 23568 80123 06745  
69743 78965 87654  
= = 421 421 33 33 00000

**4730 kHz, 11-01, 0800 UTC. Only 28 groups were sent**

**4650 kHz, 11-01, 0900 UTC. Only 28 groups were sent**

523 623 623 33 33 = =  
09465 89034 83412 70123 78036 65232 98765 13579 24680 14790  
08642 97531 12789 78523 13457 46257 39456 12568 67345 97123  
39045 58596 25790 21349 64321 62312 45876 09786  
= = 623 623 33 33 00000

**4636 kHz, 14-01, 1824 UTC, i.p.**

??? 136 136 32 32 = =  
19288 13779 26789 33178 90017 48129 38719 47822 31689 56128  
99128 37162 90831 17729 30991 65490 30987 27189 30448 88129  
60031 28190 78839 20671 44921 89024 33619 79882 49127 30116  
79941 27182  
= = 136 136 32 32 00000

**4761 kHz, 15-01, 1924 UTC. Late start.**

748 136 136 32 32 = =  
19288 13779 26789 33178 90017 48129 38719 47822 31689 56128  
99128 37162 90831 17729 30991 65490 30987 27189 30448 88129  
60031 28190 78839 20671 44921 89024 33619 79882 49127 30116  
79941 27182  
= = 136 136 32 32 00000

**4730 kHz, 18-01, 0800 UTC**

**4650 kHz, 18-01, 0900 UTC**

523 137 137 32 32 = =  
13723 16789 67832 97423 36892 45689 32145 56798 13467 90875  
15678 98643 18035 13456 66789 16677 34567 88990 15567 32143  
98789 44678 14423 66754 33578 16789 35678 77986 36754 09987  
76432 77944  
= = 137 137 32 32 00000

**9463 kHz, 21-01, 1344 UTC. Probably a test or training transmission**

801 465 23 =  
75135 21751 93358 25015 stop/restart  
801  
75135 21751 93358 25015 81296 27239 77 stop/restart  
801  
93358 25015 81296 27239 77312 42871 38661 42660 38309 71917 27146 16102 34349 stop/restart  
801 801  
42660 38309 71917 27146 17102 34349 64919 99427 30167 49511 72619 35944 95714 stop/restart  
801 801 56423 = 465 23801

801 647 29 =  
19134 55109 19857 45512 96202 50806 00014 04184 26553 25302  
75190 38372 13128 56964 30457 14608 69520 93414 77236 31591  
72112 05993 94366 69229 24035 03296 64569 14733 04380  
= 647 29 00000

**4730 kHz, 25-01, 0800 UTC. Message as sent**

523 523 32 32 = =  
58192 58192 80182 80182 48177 48177 89926 89926 31829 3182544718  
44718821 9821 18471 18471 29180 29180 49721 49721 12251 12251 47811  
47811355225 39011 46172 46172 89040 89040 18772 18772 47991 47991  
90221 90221 48890 48890 31882 31882 80199 80199 31520 31520 49188  
49188 36152 36152 88910 88910 49022 49022 31882 31882  
= = 32 32 523 523 00000

**4650 kHz, 25-01, 0900 UTC. Message as sent**

523 523 32 32 = =  
981925192 80182 80182 48177 48177 89926 89926 31829 3182944718  
447185821 9821 18471 18471 29180 29180 49721 49721 12251 12251  
47811 478113552239011 46172 46172 89040 89040 18772 18772 47991  
47991 90221 90221 48890 48890 31882 31882 80199 80199 31520 31520  
49188 49188 36152 36152 88910 88910 49022 49022 31882 31882  
= = 32 32 523 523 00000

**4636 kHz, 28-01, 1820 UTC**

186 617 617 32 32 = =  
45384 36891 92543 61414 20094 45517 71219 66666 95851 10252  
87487 04455 33756 83269 85561 69414 61420 12478 20316 19936  
14362 54297 87929 15172 19362 17423 23951 12651 54046 95435  
66613 94257  
= = 32 32 617 617 00000

**4761 kHz, 29-01, 1920 UTC**

748 617 617 32 32 = =  
45384 36891 92543 61414 20094 45517 71219 66666 95851 10252  
87487 04455 33756 83269 85561 69414 61420 12478 20316 19936  
14362 54297 87929 15172 19362 17423 23951 12651 54046 95435  
66613 94257  
= = 32 32 617 617 00000

## **M21 - Russian Air Defence Forces (Во́йска ПВО Voyska PVO)**

**4221//5860.5 kHz, 05-01, 0611 UTC**

=990913??0????? =990914??0????? =990915??0?????

**4320.5//4865.5 kHz, 05-01, 0624 UTC**

=990924??8????? =990925??8????? =990926??8?????

**4865.5//4320.5 kHz, 05-01, 0628 UTC**

=990928??8????? =990929??8????? =990930??8?????

**4171//4320.5 kHz, 05-01, 0733 UTC**

=991033??8????? =991034??8????? =991035??8?????

**6791 kHz, 05-01, 0740 UTC**

=991039??8????? =991040??8????? =991041??8?????

**4221 kHz, 25-01, 1422 UTC**

=991725??0????? =991726??0????? =991727??0?????

**4865.5 kHz, 25-01, 1430 UTC**

=991730??8????? =991731??8????? =991732??8?????

**6334 kHz, 26-01, 1013 UTC**

=991313??8????? =991314??8????? =991315??8?????

**3322 kHz, 26-01, 1822 UTC**

=992125??0????? =992126??0????? =992127??0?????

**4274 kHz, 27-01, 0718 UTC**

=13006942628314

=991017??8?????

=1300794446209114

=1300942623716

=430030002??00

=991018??8?????

=13001942623816

=430013001??00

=13002942624216

**5175.5 kHz, 27-01, 0803 UTC**

=8500329796804

=51785007170 511800

85003209792105

8500324092806B

850032092707

**5461.5 kHz, 27-01, 0806 UTC**

=8500124092806

8500324092607

8500 324092608

**5219 kHz, 27-01, 0831 UTC**

=991131??0????? =991132??0????? =991133??0?????

**4320.5//4274 kHz, 27-01, 0848 UTC**

=991148??8????? =991149??8????? =991150??8?????

**6286 kHz, 28-01, 1824 UTC**

=990720??8????? =990721??8????? =990722??8?????

## M51a / M51b

**M51b: 3881 kHz, 11-01, 0850 UTC.**

**Non-stop 5-character groups composed of M51a messages.**

**The spaces between the messages were not transmitted but entered afterwards.**

CBHSJ WIEUD XSKLD VNMDU AQSKD XZBNC PEOLF CDEIR CNDJA 35089  
VSHWY ,./?/= LDKFE SWQOA XNSDJ CXNSI DWOLA DSPOW XSIRU WUFJD  
,.AS?VA VDFWY 52301 AQISJ XBDGW DIEOA MCNSA CMDPO VLDKW CNQMI  
CMSNR 54023 MCKWP ,.VA'/ CLXSP EURJF VNDHS WKDJU CNVMD EKDLA  
ZXWOD LCMDJ 19358 XAYFJ ?.,AS' ZSIWU DJFNE MCNDJ SQKGF HCBEP  
CVSWU FKEIH CNVEI 49832 KGIRU ,./?/AR SAJQC NCDJF BSJAQ XZLSP  
SIWJD BCNSU LVFKO SQPEU 23684 KFUWN ./VA'AS HCDJW NCSKW KSWOD  
BCNDJ NCDHE LPDOE NCHDF ZAIQU 20369 HDEUM .?./= GDYWU NBDLP  
YDHJA

JHFRD NJSDE ZPOYT QRWET IYUTO POLKJ ZCXVB MNJHB ASFDG 13957  
VXSGW ,.'ASVA QDSSG LJPUE NVBFG YRTQW ASZXA QPLIH BCVDN HDYEI  
10369 VXSUW 'AS?., TRYEU QEWAR BCXDS MJKHU RQEOH BGHVT XAZSQ  
MNKHJ 47850 BQTBS VA AS/?. XCZPQ MLHPI XASQW LCMEY RGSWG XCADQ  
PLKMO ZXCVD 75301 XUWDL ./?,= PLOIU BVDGW QTYRE ZXQWU PRUTY  
BDGRT XCSRW OKRYU 85247 GRWTJ /?.,' FBFBI PLOIU VZBQI ETFGR  
'AS./? NVDME 52036 VDGFS SHGCD AZSQL MNEYH DJFVO ALKCY QWIVJ  
BDGVX 50369 QAVNR 'VAAR.? CBXZN MLFKE CALSD ETFUB

DHIQU VCGSH PELEO XAQEZ NCBGD MVNBT PTOTI BVNYE SWREG 02589  
NCDIE ,.VA'AR NCBDH MNLHK CXSDW ASQWE CVXBW LGRPO CBHYW NVVNR  
45896 BCSHW ,./?' / BCDHE LHPOT BCNDW XMKWU ASQVS NJDEF MFKE  
VXSGW 47896 VZQAO .?,AS' MCDJU MVLOR ACQRZ NCDHE MBCND LGPRO  
CDWRE NNCJE 74302 BCMAK ,./'= NVBXC NSWPO NDEYJ DJKET AXZVS  
NVMRU LDPEJ WRSFU 43269 BCCPW ,AS.' / KDWIC SNSJW VZWPO LFMKR  
DREGN MCEIS MCKDO AFQTH 01658 CAQMK ?.,?/ NCYWP ASQEZ NXHWY  
BXWJK LFPEI CNMWI ZCVQT MVIEW 49635 VXQAU ,/?,' MVLPE QADTD  
NDJIE CVDBE FKEIS QEAFFY CBDFW VFLPE 41203 CXZBA =.AR'? ASQRV  
NVDYE MCDEI BXBWH ALPQE BCDDY CBXBX MXWPO ?.,' / CZPLO 58023  
SNHWY BDGWT XWEUD MVLEO XWTCN ASKEO DGETQ CBNSK 41123 LMPOI  
?.VA,' QPALO BCGEY MXNWU VCHWI MVLRO SDQRA XZSBV DMLGS ,./?' /  
CXABQ 39856 VATYW IDOPW VXCZB LPFDO

CWXSD QGBAH DNXJR IKQLA PMOLI 19756 VXGDT ELAMP QNWJE DGFT  
IKUHY BCGDT ERXFS QJKLM APOIU NBVCX WGDPE QJAUJ ETSFX WBSHA  
OLAPM NWJDT DFEYZ 37628 NWBXC DFSTA 18649 NXJDY QKLIJ NBVGT  
UJDFX WBCDF CHETZ QJHAU NWKJI SLQOP MAIUJ NDHXC FVXWL NQJET  
YUETF CBXHD SJAIN 46392 JNXHR WXQKJ LMAPO NJHGY BCHDT WJHSU  
UJIKO QLAKI JNHYT BCVDR SKLQP AUJXC VQHUE BXUET YAHSK 67494  
QMAPY JKGFT CVXBD SFAUJ QKLPA MQBXH CVDTE SHJUY NWKQL AMZHA  
JNHDF ETXCW WXHSZ VBQHA NJKHM POIUY UHDFE XVSFG 45673 UJGDT  
VCDFE SCWXQ BHJUI LKAMP NXMQO BCJFT XJQUE DGXUA ZHJSF

VXBSG ZTQFA KLQMP AIKDG ETSFZ WCQHA 26718 NDGET SCWVD 35427  
KLQHR BXHRT ZUSHQ WVXCD AEZYU JKOLP QMATY BCHDF XHSUJ ETSFZ  
IKOLE SGAUE XVSGQ WNDXC DFEJQ LAMPW 36278 BXHDO ZJWNQ KLAUH  
IORTD CGDUE SHQJZ WBSJE DHAIJ DGSKL NWJHG FVXCD FUYTI HDNXV  
IKDGR FHBCV DFDFO ETSGD XHSFE ZYSUA JNWHD SJHUI TGFHE KHFT  
GHFGC VBGHY JWKS LMLAO LUJHG VNJKL XNDHT JKILD XCSVZ KLHGF  
56473 SGETF XBDGE XGSTE ZHUAI QKAI 46378 45381 SUJAU OLETD  
QMLAO 26480 JDGTE XVSFZ QHAJF VNDKI RUHFG CBXHD ZUJSL IKLOJ  
KQUET FKCBF DHGXV CNFGC DTFGR SHJAK WLKQO MAPKI NBHTG

**M51a: 6825 kHz, 11-01, 0916 UTC**

VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ

SAMEDI 1/ LEÇON NUMÉRO 1/2 VITESSE 600 CODÉ =  
QRDFT DSHDS MBNFJ PLEOI ZXACS FHRYE MFLRK ZXAQE URJTH 32156  
PLOTI /-.VA' QEWSR CZXSA NVHFK QWRET UGTIO VCBGD MLGKT ZXADS  
?VA'AS, VCDGW 63205 KHJGK ERATY XVDFFS LMCKD ESVAZ QXDZA NBGHI  
WERQY 96358 BVNVD ?.,' / VCDFFH LKJMF WRETC ZAQQW BFGU PLROU  
CXFDE QWAEB 47859 BCDHE .AR'AS/ EUFUS POTIY QWAES BCVD FZCSQE



QAWEV NVHFK LBPNO 45632 WESKD . / , ? AS QWAES VBDJK LPROF XCSWV  
SADFG LKJHG ZXASW CVBFN 02365 BCDHW ? AR . , / CVDFG XASZQ MWNGJ  
URYTE PLEOI ARTWH ZXACW MHKYT 32056 VODJK ? . , = ' NVBDG ZALOK +  
CVDFB

SAMEDI 1/ LEÇON NUMÉRO 2/2 VITESSE 600 CLAIR =

DEPUIS PLUS DE DIX ANS UN ORGANISME D'ÉTUDE LE CENTRE DE RELATIONS HUMAINES EST CHARGÉ D'ÉVALUER LE MORAL DES MEMBRES DE L'ARMÉE DE TERRE ET DE MESURER L'IMPACT SUR SES PERSONNELS DES DÉCISIONS MAJEURES QUI LES CONCERNENT, EN COMPLÉMENT DES RAPPORTS SUR LE MORAL DONT LA PERTINENCE N'EST PAS DÉMONSTRER. BUREAU DE LA DIVISION ORGANISATION-RESSOURCES HUMAINES DE L'ÉTAT MAJOR DE L'ARMÉE DE TERRE, LE CRH EST À LA FOIS UN ORGANISME D'AUDIT INTERNE, UN OBSERVATOIRE SOCIAL ET UN CENTRE D'ÉTUDE ET DE SONDAGE, UNIQUE EN SON GENRE. FÉLICITONS SES PERSONNELS. +

CQ DE FAV22 VA

**M51b: 3881//6825 kHz, 18-01, 0909 UTC**

**Non-stop 5-character groups composed of M51a messages.**

**The spaces between the messages were not transmitted but entered afterwards.**

JDIRB SLVIE MNAPO BKHYX VLSDP HTFZI LAFGH INVRC SOPEF 62894  
VSQHE . , = ? ' ZCXSA CDGET NVYUQ ASWOP FJEIR YGVD0 PKFUC EXUNF  
00511 BSYDH . , ? / AS SOUPE KESYB MDGUC AQNRI SWIDF ZOEPL CNDKE  
RWODK 85236 CAXWS . , VA ' / XLASD RRBGI GBUDE FKHXD TUYOP EDSXW  
WQAZX OPLMN 25984 CARSD ASAR ' , ? AQPON CNDKW XMAKW DLWPE RUGBY  
ODFRT BHGCD ORMWX 96547 CMVNR . , / VA ? LAOSW JDIWH XZNSJ BMNEO  
RITOF WEISJ SLWOD CBZMA 32698 LFOTP . / AS VA ' BUHDE MYJHG VDUNH  
WLODC TYHGB MILKY TUTUT NDCIN 98720 LGOHP , ' / . = AQPWO CNDJW  
ANDER

**M51a: 3881//6825 kHz, 18-01, 0920 UTC**

VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ

Samedi 2/Leçon numéro 1/2 Vitesse 600 codé =

DJKJF ERYRI VPLTO BCVDS ZXASQ MVLGK OYPUI GFHDJ CSRED 16580  
BCJWI . , ? AS = LMPOY CXRAE XVDRE NBFHG AWQES BCZXR BNFIR PGLRO  
. ? . , ' BCHDE 42369 LAPQI WNSYV VCSDW AQLFP RHFUS BCVDW NKGIR  
BCXWY 54783 CBHQA VA ' / . , YHHBY CXDWE VNYEA AWQEV XVSWF MBFUR  
AWQLG RYUSN 14790 XMLPO . , AS ? VA AJAUW XCSAR LDOEJ GMNRY XBSTW  
DSEWX VNFJE LEPWM 65874 VZQJA AR / VA . , ASZXW CHYDE KFOLG VCRWT  
CXARQ MFYRU NFNFY AEQDS 12680 GBDHE / . ' . ? VSWFG XASZW HDJWU  
LFPRO CXWRG LSHDF VXRAU CLNOP 54103 BCUEL . , ? ' / BCEUF LGPTO  
VZAXW +

SAMEDI 2/LEÇON NUMÉRO 2/2 VITESSE 600 CLAIR =

LE PRIX DU GRAND JURY REVIENT À DANIEL GRENON POUR " HARKIS SOLDATS ABANDONNÉS ". CE LIVRE RASSEMBLE DES TÉMOIGNAGES DE CES SOLDATS ET AUSSI D'OFFICIERS, " HOMMES D'HONNEUR ", 50 ANS APRÈS LES ACCORDS D'ÉVIAN. PRÉFACÉ PAR LE ROMANCIER ET DOCUMENTARISTE PIERRE SCHËNDËRFFER, " HARKIS, SOLDATS ABANDONNÉS " DONNE LA PAROLE À SIX HARKIS ET QUATRE " HOMMES D'HONNEUR ". 50 ANS APRÈS LA GUERRE D'ALGÉRIE, DANS CES TÉMOIGNAGES INÉDITS, ILS REVIENNENT SUR LEUR PASSÉ, OÙ HISTOIRE PERSONNELLE ET HISTOIRE SE SONT MÊLÉS. +

CQ DE FAV22 VA

**M51b: 3881//6825 kHz, 18-01, 0955 UTC**

**Non-stop 5-character groups composed of M51a messages.**

**The spaces between the messages were not transmitted but entered afterwards.**

CNCSI CNKQO AQLPS ZNXW CMNVB AKSOP QWEIU XBSAJ LHKJY 65489  
CARQF . , ? / VA QAJWU XBSGH CKWOI AJDGE QOWUN CMNSH SWPEO XHSWU  
. ? , ' = DARGD 52017 ALQSO SJNXI QALPS XNBHA SHDYW XNCMS ZMXLP  
WUEYY 10478 NXBHA . , ? AS / ALQPW XBSUW ALKSO XBCHS SJWIX BCNCJ  
CMSKW CZFST 12036 NCHDG . ' , AR ? ZNXJS QPLOS DHDWU XBCNS AJSWI  
XETYC VNMSK AQOIW 89564 NVMDW ? / . VA ' JQIAL OILPU XVAGW DHFGR  
VNMEI SAHWU SDPLI CBSJW 23561 XBAGQ . ' , AS / NCPOE XBSHW SKWOP  
SABWU CBEYD NBMCK SAJWU XCVWY 43692 NVMDW . , AS VA . BXGSG KGMGL  
RISFE

GHDJA QJAKI HNDKZ WKQLA ZPMQH DGEUZ XBCVF WBQJH SJAUL MQHDF  
TGDHN 26483 SHBXJ SKQLZ AMPLU JDGXC WBQHZ AGFHC KUIOD XHRIL  
UJFOR SGXHW 46201 KSJFY XVSJZ LAPMS HWCXV RBSHD KLAUH YHDKZ  
WBCVX CHFVY ZUJAK 28678 JSKZI WGCPZ SKLQB WNDHR ZUYHF OKSLZ  
WMQHA WCXHD RTDJS WNCHD SUJRG ZJSKP PMQHF NBCUH PHJDF XVWHR  
10735 XVDFZ WHNAY 76382 KQNBX ZJAKO WUJRD XVSJZ

MVNDJ SKAOI DJSOW JFEIS LPOID NCZMA XZAIU DWEAS XMCNS 96314  
GATSW ./.=, AQPDL CXMZK DIWYF XZNDH WIUYF VBFNS DJUWI LODWI  
25983 HDWYU .,?VA' HFHWU SHAJU BVVXM KSSUW AQLKD XNCGD WZAKS  
JVMBN 62843 BDHWU ./VA AS BCSGA XZAND BCYWU KFLEO DJFNC SQUIW  
CNMXA KXJCV 32691 HDJSO ./?.VA DCGFJ SXDA CBSHW MCNVU LSOWU  
CNSXB MCDJE FKEIW 39648 HCSIO ..?AS/ BXSJA ZMXNC VYBDH SKDJW  
'/?.' JCSIW 20178 MVKOL SUWDF XZJAS BCNSU NCJSK AQISJ NCDHW  
KZQHG 02301 BXAUD .,?AR/ ZAMCK DSIJC BCCNS ZXIQE

JHFRD NJSDE ZPOYT QRWET IYUTO POLKJ ZCXVB MNJHB ASFDG 13957  
VXSGW ., 'ASVA QDSSG LJPUD NVBFG YRTQW ASZXA QPLIH BCVDN HDYEI  
10369 VXSUW 'AS?. , TRYEU QEWAR BCXDS MJKHU RQEOH BGHVT XAZSQ  
MNKHJ 47850 BQTBS VAAS/?. XCZPQ MLHPI XASQW LCMEY RGSWG XCADQ  
PLKMO ZXCVD 75301 XUWDL ./? ,= PLOIU BVDGW QTYRE ZXQWU PRUTY  
BDGRT XCSRW OKRYU 85247 GRWTJ /?., ' FBFBI PLOIU VZBQI ETFGR  
'AS./? NVDME 52036 VDGFS SHGCD AZSQL MNEYH DJFVO ALKJQ QWIVJ  
BDGVX 50369 QAVNR 'VA AR.? CBXZN MLFKE CALSD ETFUB

JNDHE VXGST AUZRS QVWGS ETZYA GFVCH SNWJU AIKSL QOLAP QNBWH  
SGDTE IKJHF BCGFT 34265 89106 XBDGE SJNWK QKAOL QNHUY UJIHY  
NBCVD XGSTZ ATQYA WHBDU ETSTR DKDKS BXJEU SJQKA ZIKSO KQLAP  
NJKSF XGDTX WVQHZ AHUGF CJNDG ETZUS KQLAI NCHDY XCDGE UJFGE  
26479 CGDFE XHQYE DGXUZ AJNHD XCSVJ SHLOQ ALKIJ NHYRT OLAIK  
NCJDK SLAPM NHDJF CGVET SHQUZ NXJSU ATKSH BCHDU ZIJQK LQMAI  
NCJGD FVCBX WNQJZ SJAUY 46528 JSUEY SGQSA 27845 AJNDH IKAOL  
WXCSG QMAPL NKCXB DGETS AHSUE BXNWJ SHUTE DURYH FGCVX OLAKJ  
BHDGR XGSUK ZRWBC VHFUV CNXJF GUJRT DHXUE SJZKS XBWJQ IKHTG  
VSDQH ZUJAY VXBWG 42763 89210 75648 HDBXF RVCHS ZUHJQ OLDGR  
BCHSU YDTFV CVXGD SHGVC BXNHA XHWUE ZJSKQ HTRGF BDHVB IKHBG  
CHSTR DFSTF DGERF ZYSFW XGDCB QNAJH CBDUJ RTDGS WJHUY

CXVDG SHQJA WBQJA NJKIU RTSGZ QHAUJ QNWJE ZUJAI QLAKP MQLAO  
YTGFT 45287 EHSQA WBSGQ WJUKL AMPLU QNJKU WNHET SGQHZ AJUHS  
67489 18624 ZBWCV QNAKL QMAPL KJSGR XVWBS QBAJH WNQJU NWHUJ  
AIKOL QLAMP KIAUY WBSGE WJQUA IJAUY QKAOL QMAPO LQORT DHXVZ  
UJKQG AYTGH WBQHZ SHAJK QKALP TRZUI QJKAM BXVSC WHQKA KLQPM  
LKAYG 56387 XVSGA WNQJA KLQMA JKQLE ZUHSJ APLOK WNBGF DJSKA  
KLAMJ BHGCV XGBWH QJAKI YHDUR STZGA QHBWJ QJKAU YTGDN 46287  
KLAMP JKQJH BCFVG XNWBQ AHJKU RTSGA WHNQB SJAUY QKALM PLKJH  
QNBQD AVWHJ QKALU YHFGR 38721 AYOPM 90176 XVCHF WBQNJ ALKAI  
OLAMP NCBXW JSHTD QJNHG CGFTR AJKHU QKALP MLKAY DHGST HQJAU  
OIAJN ETDGS WNQHA 27654 QBWND AJZUH DGQMA HJQKA IJNHY CGDHS  
MAPLK BXGDT 19873 5A176 NXVDG SHAJK LQMAP HDGTU

MXSKW NCJDA KDOWP BCMJK AZMNS SKWID NXSOQ NXSDF HJCSI 26530  
BCHSW .,='VA BZAHA CXSHA JAQIS NXZKA LDKIW CBSHA ZALOQ BXNSJ  
02148 MDYUG ?/.,AS ZAQIS HXAKQ XMNSA AQPOE CNSHW LDOJF XNWMA  
LDKOW 48901 SHWTD /?.,', MVKDL SAHQB XVSHD DJWIF SALOJ NCSJS  
QAQSD NNCJE 74302 DRWED ?/VA' NVBXC NSWPO NDEYJ DJKED AXZVS  
NVLRU LDPEJ WRSFU 43269 HGKRO /'AS,? KDWIC SNSJW VZWPO LFMKR  
DREGN MCEIS MCKDO AFQTH 01658 GSWPO .AR',/ NSYWP ASQEZ NXHWY  
BXWJK LFPEI CNMWI ZCVQY MVIEW 49635 KFUEI VA.'AS/ VXBAQ KAOWP  
BCHWQ CVDBE FKEIS QEAFT CBDFW VFLPE 41203 SPIJG ?/'VA' ZAJSU  
VXBHQ XHQJS BXBWH ALPQE BCBYD CBXBX NXWPO ?.,'/ GDWYD 56320  
AZNXM WLJSS FSWTH BXVCS VMKDA ZBCYQ LSOPD VCNWM 93502 JDIWK  
?.,VA, ZAUSH BDHWA BXVSG GDYWL POFKE NDJAI BCVXA MQIKD MVLAO  
56398 KDOWL .,=' / JXUWG GDJAL PLGOE

JDIRB SLVIE MNAPQ BKHYX VLSDP HTFZI LAFGH INVRC SOPEF 62894  
VSQHE .,=?' ZCXSA CDGET NUYUQ ASWOP FJEIR YGVED PKFUC EXUNF  
00511 BSYDH .,/?AS SOUPE KESYB MDGUC AQNRI SWIDF ZOEPL CNDKE  
RWODK 85236 CAXWS .,VA' / XLASD RRBGI GBUDE FKHDY TUYOP EDSXW  
WQAZX OPLMN 25984 CARSD AS AR',? AQPON CNDKW XMAKW DLWPE RUGBY  
ODFRT BHGCD ORMWX 96547 CMVNR ./VA? LAOSW JDIWH XZNSJ BMNEO  
RITOF WEISJ SLWOD CBZMA 32698 LFOTP ./AS VA' BUHDE MYJHG VDUNH

WLODC TYHGB MILKY TUTUT NDCIN 98720 LGOHP , ' / . = AQPWO CNDJW  
ANDER MORN I PLOFE XNSIW OPKJD EVGCT 63259 BCDGE , AS. ' VA MAGDA  
LORGH BIDUL WERTY ALPES HNI FE CMKSE XIOKE ' / / ' . MCKOD 12890  
AQPOL CMVNE WJCME SWERP LFKHM IJNGR BCDYF PDHBV 25168 VCFSG  
. , ? AR ' VNMRO FKSUW GLOPE NCJSJ KFOGL AQEWF BCNDJ MNKTI PHLOR  
, AS. VA ' NXSFV 20398 BVNDJ FLW0J ZAQCS

etc. etc. etc.

## **M89 - Chinese Military**

### **3238//4870 kHz, 10-01, 1853 UTC**

V M8JF (x3) DE RIS9 (x2).

Note: Suspect this is annual roundslip and frequency change for 3JWV de QH4P on 3156 // 3597 during 2019.

### **3842//5858 kHz, 10-01, 1904 UTC**

V 8FDH (x3) DE 5J9K (x2)

Note: Sending 8FNH VICE 8FDH

### **8157 kHz, 11-01, 0237 UTC, i.p.**

= 275/0273/3/130772/8 AR

= 275/0273/3/140772/8 AR

= 275/8159/7/7334/8 AR

= 275/8159/7/7334/8 AR

V M8JF (x3) DE RIS9 (x2)

### **8157 kHz, 11-01, 0744 UTC**

V M8JF DE RIS9 =

438/5543/5393/63/./..139/468 AR = 438/5543/53/3/6./33/3149. /A AR

V M8JF DE RIS9

### **10563 kHz, 11-01, 0742 UTC**

V 3DAU (x3) DE GU5H (x2)

Note: Sending 3D1U DE G25H vice 3DAU DE GU5H.

//7653 sending different roundslip: V 7KMO (x3) DE RNL6 (x2)

## **M95 - Chinese Military**

### **3968//6936 kHz, 10-01, 1909 UTC**

V YHxD (x3) DE SAQC (x2)

Note: Suspect change in frequency and roundslip for DKG6 DE 3A7D. Known frequencies, but new roundslip.

### **5479//10722 kHz, 11-01, 0259 UTC**

V YHxD (x3) DE SAQC (x2)

VV HR MSG GA

NR 063/CCK CK 199 05 4 0111 1100 RMKS 2416 TO 2234 2174 2224 2064 2252 2266 2260 = =

N5TU 47D3 A65N A63U 4D7T NT4A U634 7D5N 63T7 A4UD NT75 ...

### **4125 kHz, 13-01, 1259 UTC, i.p.**

UISD DE CBF G

HR MSG GA HR MSG GA

NR 036/CCK CK 31 46 EEEE

NR 036/CCK 31 46 0113 2100 RMKS 2374 TO 8404 8470 8405 8448 =

6TND U756 35NU 3NA7 3TN7 5NUT (Cont'd)

AR HR MSG GA HR MSG GA (1304z)

NR 036/CCK CK 31 46 0113 2100 RMKS 2374 TO 8404 8470 8405 8448 =

6TND U756 (Cont'd)

AR HR WK NR 270 270 HR NIL SK GB

**3942 kHz, 25-01, 1310 UTC**

Y3BK wkg Z5HI, 4HEA, SU7L, Q4DF, R8PQ, 4HEA, 5U8L, V1ND, 9XLF, WJY4, 1RBZ, 0Z2D.  
MSG NR 130 CCK CK99 66 01 25 2100 RMKS CQ = TXTU 3UAY QSL + QTR

The Net Station uses various.

NET Station Y3BK Outstations : Z5HI 4HEA SU7L Q4DF R8PQ 4HEA 5U8L V1ND 9XLF WJY4 1RBZ 0Z2D  
The Outstations respond using another series of callsigns.

NET Station 8PQD Outstations : II1B CT4D WB5S D6UE CTV6 3L1B DCQ6 L4NR 3..Q YQI3 4QTW SNM1  
End Traffic 1406 UTC

**UM03 - Chinese X2M net**

**7920, 8250, 8410 kHz, 11-01, 0736 UTC**

13 13 CK 100 CK 100 TIME 1436 TIME 1436 DATE 1101 DATE 1101 =  
KNCET CFUWL UJYAP BQSJZ WLNCF ADSUJ MBDSV PEWYN QFHZO LARDM ...

**DIGITAL MODES**

**HM01 - Dirección General de Inteligencia**

HM01 repeated the groups and files from 5 November 2019 during the entire month.  
Groups: 7236 61724 01307 67503 26321 03484

**11635 kHz, 13-01, 2200 UTC.** Should be on 10715 kHz

**9330 kHz, 19-01, 0800 UTC.** Should be on 9065 kHz

**9330 kHz, 19-01, 0900 UTC.** Should be on 9240 kHz

**9330 kHz, 26-01, 0700 UTC.** Carrier only

**9065 kHz, 26-01, 0800 UTC.** Carrier only

**F01, F06, F06a, M42, M42a, M42b, X06 - Russian Government & Intelligence**

M42 – various modes

12153 kHz, 09-01, 1157 UTC, MFSK  
10342.5 kHz, 09-01, 1649 UTC, MFSK  
11496.5 kHz, 10-01, 1004 UTC, MFSK  
11154 kHz, 14-01, 1327 UTC, Serdolik variant

M42b – FSK 50/500

4461 kHz, 05-01, 0550 UTC, CW+FSK 50/500  
4856 kHz, 05-01, 0629 UTC, CW  
4524 kHz, 05-01, 0632 UTC, CW+FSK 50/500  
8191 kHz, 05-01, 0748 UTC, CW+FSK 50/500  
4451 kHz, 08-01, 0830 UTC, CW+FSK 50/500  
3210 kHz, 27-01, 1809 UTC, CW+FSK 50/500  
3210 kHz, 28-01, 1848 UTC, CW+FSK 50/500

PZAK wkg PLXW. Opchat in CW, messages in FSK. QSX on 4026 kHz  
MAST wkg IABY  
MAST wkg IABY. Opchat in CW, messages in FSK  
DLXT wkg A2JW. Opchat in CW, messages in FSK  
ZGFU wkg BOPK. Opchat in CW, messages in FSK  
IBUP wkg CAGR: QTC 1 ZZC ZVP. QSX on 2750 kHz  
IBUP wkg CAGR: QSA NO QSY 73373 K (73373 is 2750 kHz) QSX o 2750 kHz

**7629/6783/4034 kHz, 01-01, 1940/1950/2000 UTC**

Null message: 5761 00000

**11079/9162/7509 kHz, 02-01, 1015/1025/1035 UTC. Two messages.**

92323 93495 79961 41815 56144 65328 85111 09118 58518 97043  
95532 83639 59139 19788 05416 03601 60408 77094 65015 58238  
73327 23068 15336 79986 72154 64417 42053 32850 30015 07282  
53369 20406 52665 94766 11472 61875 52579 46150 72301 09687  
30558 33686 13303 06998 57053 57933 53854 08586 70369 07568  
98058 13551 33966 14605 54586 83287 20015 40955 13254 43132  
11425 57287 83035 91146 39502 00094 21180 62471 99451 17930  
08128 22676 10890 42742 47928 88551 15571 47237 98815 99790  
29501 74222 63663 89970 91642 48850 94980 30302 76380 09725  
94148 44562 61951 19775 09584 18658 72010 42865 63515 53260  
32540 97061 62060 32936 11268 20489 68290 10221 31798 10737  
42970 28083 79634 23724 82666 29184 42292 42981 09897 25411  
50663 55284 95027 31123 00000

40336 43297 51436 05295 97942 90688 90560 38598 87150 21581  
26199 07342 06980 17951 77685 30439 38190 89640 99379 80442  
22336 13338 94331 45628 40906 72052 30391 04278 55506 99758  
82191 28363 95007 60907 47452 58804 00612 19488 11038 19504  
64757 77326 55202 62338 24822 86314 39469 60285 97531 64242  
98570 90895 65043 68943 32054 00000

**11079/9162/7509 kHz, 03-01, 1015/1025/1035 UTC**

Null message: 5761 00000

**11079/9162/7509 kHz, 06-01, 1015/1025/1035 UTC**

60221 15975 76323 38425 38042 43339 39099 55411 05212 23871  
32667 15196 50879 20975 37308 10470 69910 41083 20705 32254  
55483 15387 40350 50710 46856 57447 25357 92916 62009 45125  
79842 28553 69827 00257 75083 99437 81522 64535 22636 53846  
65991 95004 45589 71555 18771 27630 90156 90545 39307 82373  
44788 71299 96207 08202 58984 59642 85168 91483 79012 34046  
09267 76192 42694 48348 36303 69377 00476 05820 12884 30309  
54941 25518 39925 66768 35983 86854 39274 86892 53794 63336  
66129 80029 96888 81391 46950 25033 67323 65242 47540 49435  
70313 53737 00999 87937 00437 00110 50213 13656 91599 90566  
84603 40551 22965 42679 75779 20499 98024 69481 41819 83417  
38999 20237 94846 93900 63763 33808 51594 22799 37473 65543  
11647 57169 16094 73659 33043 97046 24003 76013 59934 12475  
32866 13237 81972 59214 33972 79146 30134 76594 21206 04382  
38651 15923 26864 04205 27743 72902 77478 26386 86837 22486  
61854 60145 62972 79615 28501 92042 84050 34270 54642 19798  
71653 34278 54000 59949 23093 14312 15536 10297 67381 94513  
90327 53069 24825 97190 68792 09757 24912 55010 15416 83529  
62189 09141 53198 50205 94816 20765 14992 83678 15483 44418  
03913 26763 49374 36575 30039 43389 58881 97923 15546 13073  
59725 72782 85505 53617 78209 54064 86499 82975 04263 67263  
00267 56202 19971 31870 44550 38447 08290 23672 78337 99921  
71615 86367 53689 43772 14910 65933 81329 02801 73064 66189  
02203 65976 87182 48983 82165 20662 59486 27448 72014 21505  
41515 25761 00038 21930 35317 03847 89265 29155 12315 70454  
16622 68691 79534 33053 56154 69249 47887 57987 73535 03993  
82184 39311 64020 49074 37584 99765 51048 45400 12149 72310  
87679 74552 70201 35668 28047 84802 16174 02305 61015 28175  
23628 82289 23242 94465 49141 71475 33807 53183 85744 37430  
17630 39335 35593 01554 09823 43995 06571 40839 58206 95595  
62502 57683 66148 42885 81666 91210 42923 75473 03301 68539

53780 42918 66777 19420 86903 58288 73147 02697 79457 97123  
23733 18019 69899 27762 15457 01246 68748 33929 97598 26978  
65003 15572 19667 66659 10387 78836 25070 75677 48611 51155  
70270 07911 81855 82356 74124 81150 91630 17763 27078 41841  
56228 54184 14918 02576 31944 14768 36752 50777 90249 03630  
21933 52017 28118 26214 75573 96394 93672 86299 07380 61419  
94364 95624 23466 89839 79847 57024 85841 05848 16755 07059  
69271 18096 97553 29039 70174 82980 50674 72411 47272 26600  
44088 39414 98654 48854 99538 24970 04965 58106 59599 20732  
93380 09849 74753 19222 02085 47810 02677 33407 00000

**11079/9162/7509 kHz, 07-01, 1015/1025/1035 UTC. Two messages**

97584 18575 65450 00791 63943 45303 71718 84999 98072 25016  
33875 05059 01281 38355 00615 06853 90087 78334 64133 61981  
50582 90910 06728 19505 90937 06277 01012 25766 34248 71810  
18428 85710 18888 22630 25753 64150 98584 50677 74273 50408  
59372 58278 11330 34772 95643 07106 68908 70212 12457 98504  
08969 17783 46307 46085 30208 99155 21545 26551 65921 04719  
84619 19682 27682 30681 83346 73415 74491 43616 83379 54965  
12120 95884 39081 73911 52303 34075 00000

07298 20522 41370 82765 18013 73129 55721 91859 53970 24400  
64707 76003 51148 94433 44864 73136 50484 19139 06874 67303  
00406 56654 96385 36530 14936 71594 83999 46487 60790 64313  
80348 69655 71925 37378 37217 34656 14961 16442 20629 35451  
53918 67687 66847 55090 87718 79048 57224 83702 58865 97389  
72827 35400 56756 38824 14803 93815 64068 14366 01387 40919  
19640 38106 77515 48839 96298 10090 97980 39354 17062 91090  
70044 40741 58164 11466 66471 96687 12326 81287 44909 06929  
10726 93916 34551 04322 27091 40237 76023 98023 12365 75714  
25430 37478 33365 35093 00000

**11079/9162/7509 kHz, 08-01, 1015/1025/1035 UTC**

01266 23811 19764 32981 77870 79090 07737 82193 28001 36700  
63674 66854 03813 16473 57027 60659 80985 07818 64899 74395  
14797 68839 61372 71315 60745 48199 20600 51361 39416 28184  
25858 65171 50261 12389 01744 43810 64010 06477 11702 55157  
48363 65435 88071 22901 06688 05782 86842 69053 34380 06137  
84304 65953 22599 44625 57776 08669 64039 46525 17608 43751  
40459 40610 82637 15273 96614 47617 16298 14092 30325 49287  
65542 41272 53324 11401 69808 21600 02613 59267 32169 28143  
06978 29079 69895 03775 38377 43593 86593 90611 02878 85561  
33105 03298 50830 67353 49380 07079 10968 20209 04479 86588  
78119 51553 76913 16306 09228 43822 42514 68604 07347 93225  
61986 20339 98324 11887 85381 43902 29844 41805 15635 93693  
47512 54064 98380 23938 27696 31741 30223 98781 71775 59934  
02650 80622 91514 71367 23781 07590 40233 20987 85132 96127  
69462 88014 65591 29612 15784 28865 89783 18940 47524 29385  
83022 46028 26006 29855 90031 26164 61032 21163 49616 50134  
65303 35631 42490 92080 37440 80885 54423 94018 28309 90247  
21919 62947 70343 88057 52589 41497 74527 93379 37434 38055  
24756 10522 97191 27291 24236 79813 29970 57036 73631 87072  
52324 22452 85633 55196 50988 93411 65639 66326 87431 06049  
13240 88016 22441 54402 24186 01837 52901 43093 97540 57859  
77980 86979 77687 03463 36891 68718 85890 59887 85420 90174  
21096 44984 03422 78614 34656 65589 50446 33627 08670 27971  
11711 25699 92619 39771 01579 82393 78000 01900 16757 23057  
15624 13797 56380 28004 05283 40521 51178 53112 12473 15082  
68919 25761 91841 74475 88297 83061 22077 52835 58480 38299  
81899 80161 86475 86551 21857 60049 19526 85387 11609 24854  
14703 71612 67386 91746 12905 99984 89316 68070 59428 14835  
63294 79468 38315 90543 07095 19186 12652 01797 65412 42017  
88016 09567 83509 51304 41256 73750 14171 52451 81786 28410

37644 71372 37594 80544 99251 61324 83137 18338 94375 46549  
51325 39810 55484 76177 96770 37828 20899 86819 02499 02387  
89991 97284 47295 26126 94492 83868 75893 24001 40595 09642  
39180 03050 01554 06188 96601 43200 65456 31209 97973 75044  
67860 50455 86865 65528 63979 17406 92759 47486 20104 49141  
04163 53959 28958 21848 39867 43240 78656 34383 60541 25573  
29975 13347 87836 27459 81596 58097 23207 54488 28048 49144  
83623 38646 39983 68352 96361 81038 21532 04409 20068 25951  
24378 41978 84282 27206 23265 57980 64599 92730 82619 73442  
35665 18299 68967 34354 69197 46353 88845 19960 69204 10881  
56887 01932 61607 54248 23769 02863 80434 26953 18707 27508  
17796 06218 86197 65220 29809 94378 21681 87015 15668 82986  
35812 85702 12045 36423 00000

**11079/9162/7509 kHz, 09-01, 1015/1025/1035 UTC. Two messages**

55610 14801 77350 15583 21706 89757 55289 24870 85132 87055  
18689 06800 21308 09842 88542 67592 42561 00881 59298 57681  
67039 55868 09223 42305 65460 25922 56577 01123 52874 45162  
41273 55246 17641 44329 36706 45173 04798 36368 21459 08022  
96004 84937 65545 27527 53270 91747 10896 55223 18623 63698  
50779 26264 86936 45735 37817 18294 94078 30359 75320 26844  
87588 79746 71600 55646 72049 21391 61957 45347 46372 03229  
28040 89026 75142 37073 00000

45194 56419 82953 76190 12795 10923 17167 51721 92742 22056  
29300 92297 82973 48903 36830 70531 47681 93171 26978 90966  
26759 15152 80267 26606 12141 84147 66438 17237 33215 74321  
67415 03025 18513 41888 07014 91787 25857 44585 92069 83409  
58150 89378 94687 99808 06995 19317 30282 93919 91336 75490  
11117 36112 83311 95022 80010 01489 38491 31034 53909 06503  
72703 05518 32014 68323 52631 31063 48141 85398 92363 62360  
72009 62641 73087 63432 89138 29690 28122 01527 14059 25663  
60459 03600 16493 48863 85024 36343 65227 94855 12826 95679  
19339 31366 19178 16668 21476 83426 63211 38097 00000

**11079/9162/7509 kHz, 10-01, 1015/1025/1035 UTC**

Null message: 5761 00000

**11079/9162/7509 kHz, 13-01, 1015/1025/1035 UTC**

13780 83147 51407 71622 51278 87500 08556 89657 79773 05843  
00987 62333 30434 68894 31685 26525 72378 20954 90679 50032  
07861 64575 22154 85867 37473 55331 42037 78993 87557 07622  
10783 48928 17011 97449 90996 96674 45672 73108 44630 09405  
71480 09718 49402 61328 68587 68541 39148 34197 83618 47031  
97783 05873 72260 30531 61573 80395 43371 81574 09377 58005  
02802 27726 45581 68525 14102 33882 05395 16576 18318 69993  
37184 12036 80054 10134 41557 84197 51994 23846 71873 03047  
75065 45720 25858 56116 56432 34123 83026 54336 92520 55037  
67592 65329 29234 51920 41551 97585 76572 87548 57628 83951  
19837 68767 26780 37873 94594 90086 79930 80831 17605 57063  
28629 64410 90894 75406 54334 35420 21158 16748 80985 17540  
21679 96994 10570 07887 88962 28238 26363 11976 71258 30118  
93533 65488 71165 11606 11797 16297 49511 59133 99811 65183  
22682 92006 15995 88684 70597 71041 45456 92501 97526 71359  
07732 68920 12912 55286 65006 56662 24406 06278 35504 26625  
60303 09820 41760 41935 63550 92246 48422 65752 24531 53396  
69304 15268 44800 54056 48362 85330 48975 44133 44279 90142  
86942 42479 73361 96453 93600 04316 90409 46700 98297 37198  
12274 95524 01168 51446 13772 08105 58552 55990 50658 93747  
44688 35557 89323 73162 81849 70153 47935 02872 56143 82757  
78673 05185 61123 26187 45782 77178 36439 45045 79102 77111  
93680 73721 07781 11728 46621 56352 03843 72871 88042 99698  
90317 96852 80332 94861 35984 50075 20301 68799 44732 28892

17528 51550 59318 28535 62095 70127 50713 77195 59430 05002  
56218 11066 13912 70132 80949 07354 44747 02457 89060 59172  
54208 71797 97027 60698 47126 47118 48668 01006 93855 80062  
76581 90041 53870 91710 79707 65161 02202 73506 71687 51668  
25895 38276 79705 75798 82661 82278 98515 53579 38943 44237  
29324 04007 29545 72274 58228 59980 06043 34698 53887 75422  
66150 35569 89126 52029 81221 20998 16149 34094 64096 87094  
50050 44824 44461 25519 40322 62605 43911 67569 35028 60647  
67916 12738 67347 58437 56863 52681 19169 58456 63369 26533  
41419 66584 48053 68512 35821 19629 10947 33738 27760 68427  
00745 13222 84960 89950 69072 73945 61640 26846 61955 84977  
72846 77861 65687 15564 28654 87586 49286 16129 82915 08946  
70705 18120 76244 36882 39015 13643 77932 36675 49723 00816  
56472 15316 35426 05784 33387 09399 98984 17332 00044 87940  
21400 95036 02145 93588 61591 36881 21582 70644 90248 17293  
10343 53331 24961 31516 56151 12770 58798 07280 84539 86065  
99540 69681 27029 35979 61731 70235 10113 14582 78765 16018  
44730 39411 00000

**11079/9162/7509 kHz, 14-01, 1015/1025/1035 UTC. Two messages**

93069 90349 77573 10240 43348 17931 61957 92188 91404 40690  
42734 03928 54114 98059 67336 08961 55718 19810 02458 05000  
80938 85391 99530 95074 49293 89238 89979 07570 34031 29215  
96200 94878 74140 60391 69205 65350 52855 81342 88857 28237  
41112 45152 87643 56304 29371 12314 83922 95809 96272 87710  
35579 78540 87526 08865 50029 15571 03515 40057 00000

80166 03365 91010 72678 49130 51470 86158 12440 22636 65427  
52828 53965 89790 92112 07130 61373 64043 38005 52610 83232  
17405 84037 73312 11609 44460 49391 71464 64262 42093 33896  
98237 32177 15881 93728 51002 59606 49079 30108 35532 48829  
95147 95658 16583 06799 79743 48139 05286 75873 23131 06222  
56802 15818 18931 87015 76662 29259 30163 30004 59238 47792  
88504 37106 06777 20911 07715 83533 02443 74966 47150 79140  
35801 34322 86323 84936 04180 21913 96428 14485 38342 81381  
19777 74827 25922 87986 93084 26665 31049 40465 75540 68459  
33594 51042 67599 74140 36490 75769 31436 39127 14557 52391  
48994 14325 03262 37901 78573 32809 50861 63015 95887 41109  
00000

**11079/9162/7509 kHz, 15-01, 1015/1025/1035 UTC**

87676 43960 34410 17773 44984 32052 42681 98488 46827 39912  
11839 76669 15215 46905 60263 27004 12527 84631 19467 49604  
27102 08626 11333 49962 41737 84603 98112 82662 21034 68951  
03606 51063 78533 88138 28981 80113 09571 46742 11651 04513  
00789 18775 00658 39374 52252 02001 47003 25614 73097 39923  
32348 67216 36651 41145 84537 02599 05962 50768 53372 77230  
65678 53538 45080 09719 21216 13416 38905 68534 51139 79254  
34277 01575 23710 11289 01970 85736 13534 08105 37714 88708  
79236 38783 41680 60146 88117 09914 72281 94436 98710 22156  
47731 32232 37199 96037 93789 92935 28602 71682 61143 55337  
68701 12144 60841 28579 47612 65049 91251 80637 60963 62227  
54943 16521 69604 62008 88953 23351 93793 63891 56877 24536  
52785 50266 76195 10205 85777 34865 79314 36103 15133 22643  
31716 08138 37830 10779 55686 94740 56075 85464 33042 34268  
83002 94190 85298 29594 84422 98209 54724 47103 42534 34854  
34698 62269 52547 44414 22836 18996 88159 41247 95293 94921  
96810 33816 25712 89861 10663 23342 97218 79590 84243 35752  
80940 02136 94679 66628 79451 68785 65477 43811 58606 16985  
99757 37390 16183 47320 33923 71726 60783 11769 47655 19226  
99429 45403 91202 80530 57276 58750 15897 80824 77905 32968  
18823 36948 77611 85056 37585 74986 52136 95263 56113 03048  
59280 13893 07444 68897 25829 89688 84399 57141 52234 86996



94132 05654 13487 83874 17436 45927 79620 68354 58795 97034  
14278 75028 98083 67895 54781 29163 79868 47525 82149 90512  
01243 87969 54489 14035 84134 09590 02201 69682 43028 83410  
48445 88465 84025 70197 23295 26974 96203 20963 85018 67540  
21180 68591 96928 96237 11858 65252 33238 25896 16246 45317  
12350 56325 47336 18436 81034 88932 24936 22492 97920 37925  
00421 91098 89735 05276 00331 15333 78742 11652 49756 04404  
04805 00484 61438 74923 90514 57373 01538 23490 22833 12012  
67993 62244 49658 14808 42428 22120 14785 05420 01514 53441  
79677 15353 98751 78580 05489 71838 52606 76351 93782 95170  
01913 02829 09377 06676 14519 78276 33754 89528 60080 94889  
22480 69577 82950 25006 65058 08382 36117 34509 70669 25642  
62099 31088 28219 93211 31761 02047 14149 67878 76970 21357  
46430 55107 78049 30630 08196 20918 91932 23707 89426 94105  
32005 89547 20155 25975 35519 93109 93597 99777 79562 98899  
02679 07058 31485 66893 38358 33061 44747 75498 23223 18431  
36109 51264 78763 89348 05108 10013 49784 73324 81753 39081  
34376 42822 13394 75370 92895 53895 26664 58877 34385 72040  
25485 66404 03868 02438 11025 55133 18970 66775 34574 70748  
29282 93846 19267 99801 96922 16097 11591 70994 21728 89323  
48617 42421 00000

**11079/9162/7509 kHz, 15-01, 1015/1025/1035 UTC. Two messages**

37080 36365 34644 66388 57268 49417 08799 73331 31322 08860  
14293 54208 62798 01988 60129 91708 28497 04570 59018 93687  
64252 53574 59740 98752 11614 74284 51486 41710 63824 04004  
51113 33565 84577 79519 09233 35757 97940 80531 96099 33324  
72929 46224 53216 36678 51130 07169 21595 66683 90840 99744  
82624 02720 26142 55271 72466 98422 64353 81032 55929 94792  
70307 75378 70741 85343 10873 44106 78189 13001 58167 10293  
81026 03418 74909 34766 94609 64410 30327 89422 82195 06188  
20073 43081 00000

57666 94556 63622 09982 11700 18740 15466 78038 67162 26941  
85808 50944 10209 97558 29800 95240 02528 58940 63666 39502  
99172 22263 97861 83826 14764 06310 29688 06687 76512 96321  
06326 23840 37489 04126 94209 78966 48600 21718 15697 70745  
12675 85489 38954 46027 69131 93288 31999 13827 82640 41495  
16847 59789 34236 74309 84693 65838 38297 62433 58063 64686  
33853 53331 10871 83896 23637 60261 82335 59184 59339 82265  
45671 21637 96476 72303 17507 88558 67343 95717 18967 12606  
45450 46220 24339 68915 99919 11581 58294 84911 63249 06216  
27562 42466 85214 44093 00000

**11079/9162/7509 kHz, 17-01, 1015/1025/1035 UTC**

Null message: 5761 00000

**11079/9162/7509 kHz, 20-01, 1015/1025/1035 UTC**

25205 84747 32813 50801 83551 58935 06931 91885 14407 05119  
21122 97858 12623 04277 88846 53871 68196 02559 96686 47000  
62378 10594 94641 86501 12716 47433 09579 39792 96698 77552  
24011 95089 08712 14363 87390 86652 29979 88662 52119 43548  
16176 05464 51443 47907 32410 37644 61438 13571 90249 29840  
14255 21098 66495 11046 54831 70056 08372 39328 58243 34532  
54831 27115 49889 32798 28672 20486 95693 47089 79124 30906  
54516 54403 79627 42836 09964 54278 10466 45658 23768 04480  
80953 63359 77950 00538 70859 80405 97932 60063 95756 87237  
73795 97793 25989 93846 21872 02297 13932 84840 53852 50265  
09247 14462 45605 19359 66810 64975 22890 85512 77003 16881  
06146 15650 73058 04374 81558 91752 95133 54498 90582 27212  
15827 33434 55101 61403 56788 48341 80425 43416 51148 78217  
03311 40893 31418 32189 77180 34889 47584 58687 11744 86717  
45048 53937 09194 87693 57128 43201 64180 27739 91798 33215

19734 43757 17349 59253 96336 33744 76661 75255 36327 47552  
84790 60467 30823 90250 89523 41010 21348 99027 99623 49838  
93357 79558 10436 73514 03848 12786 81540 59225 10226 68053  
46143 80509 92647 83513 56902 85093 86991 99767 97852 73307  
70670 57660 17144 80503 68458 96177 60259 61906 70527 11372  
08415 03358 79879 62266 51818 06361 31356 34665 52482 20892  
49420 98817 76271 24396 36901 21860 98879 70414 11869 20983  
15417 55277 34858 68260 08301 76301 93596 83075 53133 79926  
37452 73081 67254 23237 78766 09633 30657 97289 03277 48631  
33957 85706 56800 32715 33098 56951 00382 35738 15485 13740  
51083 35465 07223 48008 50606 25433 76170 74899 28930 01909  
10470 44178 55164 86878 77254 52529 92789 73014 91226 05175  
01484 01547 47777 00240 52714 08991 00352 34317 51290 03651  
86735 52654 80062 57849 33953 92406 09944 26823 96473 92400  
42464 30204 07401 67833 77022 57048 47338 73353 20033 80326  
60614 02953 78162 91837 73570 00124 02824 93452 94573 76695  
78140 05663 00461 63806 69544 79335 39099 43440 75211 21637  
02742 33967 47518 72050 51875 28126 76695 89436 94240 06887  
53892 36051 48720 77624 55809 69490 48775 10054 18104 78471  
65114 68351 89757 23405 52303 62906 85582 67684 48968 70139  
79064 10643 86320 93824 02721 58100 84650 66352 48165 91453  
42511 13372 83076 21230 48258 30250 27235 36057 68642 43786  
54840 82981 94141 57612 15279 40066 45716 04728 89541 67219  
72679 55599 24469 46172 96367 55262 12015 45568 79299 87870  
05727 72072 24510 92112 91605 93467 34751 75956 55561 44649  
86236 04143 14632 52476 96632 56869 04157 40401 91968 83105  
38099 98826 02164 96972 84702 32121 39853 90631 24658 18230  
42205 62103 83986 41827 80410 81475 58813 86931 66537 43928  
74224 99942 12435 83003 44391 45435 00000

**11079/9162/7509 kHz, 21-01, 1015/1025/1035 UTC. Two messages**

92146 18481 44198 09363 74743 07749 69904 24459 31763 44196  
27158 77129 83678 29288 93778 83892 25157 71787 65695 60021  
85672 59569 59803 52551 88267 22166 70417 41345 48636 94968  
34046 81666 81743 21032 82137 86691 08135 51402 86510 73403  
77152 29934 27148 20300 49227 73501 37035 10354 04442 83569  
03745 57672 69551 50044 32441 41275 80648 33344 00002 94447  
23662 35636 54934 23089 19866 97168 42790 51512 48613 78637  
61747 19116 24446 15524 78058 76372 70797 55346 56046 53574  
57465 13756 82347 00768 94031 10423 89070 22318 96437 70637  
05573 46091 00000

67583 36252 53373 43744 23740 11036 42137 85914 46951 91916  
85804 76241 36963 25940 36175 31612 42630 54516 61023 69486  
19207 68643 63941 25867 11914 95468 60919 56949 57954 77143  
18353 47907 24183 27896 82160 77238 22602 80263 52707 10122  
70873 56429 85211 19209 90048 25584 20332 56300 56681 33267  
74613 23335 51530 13620 45486 16131 72027 20476 10503 39324  
00706 38252 25504 15934 46768 58545 51388 39988 02993 33406  
64195 45662 85155 41195 28169 91354 46156 25985 36497 82139  
82046 96428 49415 79039 72137 47085 00000

**11079/9162/7509 kHz, 22-01, 1015/1025/1035 UTC**

96088 72955 32797 70522 81527 22498 52328 27554 65044 39220  
68235 51689 24242 05440 38670 41470 65762 99070 51712 04847  
42129 21570 83860 45381 51494 40436 31275 12214 56238 25948  
12216 05993 81353 86824 64104 57943 78545 34504 83654 24270  
67001 30718 83510 63082 86753 98059 63817 86022 25574 98222  
22179 01788 05350 07606 50428 93740 38860 44969 91653 98781  
92909 30824 55914 79682 18736 83256 18087 08065 35651 79858  
46275 00209 78837 40457 34229 72879 47239 10342 36198 11368  
12497 48658 27669 66916 74843 51668 40422 25734 76920 65563  
45330 16778 11437 68514 81362 50492 83614 26644 54208 05691

14356 53617 52970 06773 95070 28532 58365 58460 30103 51794  
40857 30239 27692 43673 72175 07692 25402 15217 98653 52923  
60972 66221 49811 41242 24502 89934 80635 66310 52930 89190  
70988 30934 52733 33650 30583 65678 61783 12851 82959 42518  
86307 64739 26905 75679 73880 84379 98752 26885 08382 42528  
83998 57178 37881 68756 51668 92520 71353 78813 09875 95338  
05187 50913 06016 59222 65419 80637 20019 68955 76618 69134  
24111 93058 93381 24311 07512 01048 55346 79701 89516 22579  
51699 60689 69393 90686 06071 52795 86531 36276 17796 51690  
89283 26088 20451 99642 35936 61296 43613 38072 76247 78944  
88784 30914 86984 23399 55412 38457 59912 80011 77939 46373  
65646 88170 59834 79600 41837 75944 15530 55777 79096 83483  
56202 57919 03126 67386 80349 31020 76460 03208 55075 32262  
68297 28299 99048 89535 65806 92169 03053 47935 25403 06553  
49067 08945 87384 12368 13831 91973 02392 05763 67807 72952  
43121 90428 05506 79664 99728 48371 68074 48499 82362 46321  
44130 72324 79262 19986 59744 94156 43864 03314 93516 26318  
09342 94967 77701 99774 54034 79191 71291 73333 66182 43263  
16018 57386 81424 58711 11201 31906 91483 18492 68378 63349  
47477 47313 31664 50191 06300 27284 74763 51747 93509 06087  
10582 79989 81151 79861 74378 59039 03963 67975 66385 82017  
62395 21881 64835 19955 85890 35241 45345 62432 54843 47513  
67577 94648 04702 58175 15126 40606 60626 93783 99563 27091  
76155 95056 64587 48147 74314 16155 51195 34722 14599 53366  
09842 59176 34281 45364 70498 29347 37462 12245 06562 51847  
30322 25511 53551 69289 25998 26208 68526 01124 67524 33390  
41164 42782 42279 10103 92433 02800 86378 79078 21811 82621  
02436 05321 88954 28771 39151 87772 40806 12065 06147 27258  
20031 13567 22498 62872 15739 21976 22388 94027 42439 72115  
66334 30319 58145 79228 31418 36419 57587 48768 78951 64177  
01447 66349 23025 89110 67576 97578 48379 93478 35123 52421  
51015 63129 37500 93819 00011 90298 45145 95226 43957 99559  
64000 76759 10465 39098 60653 74651 72174 04511 50074 23688  
77704 87309 06889 57329 70985 65320 86126 55184 47403 77167  
64373 48441 00000

**11079/9162/7509 kHz, 23-01, 1015/1025/1035 UTC. Two messages**

53020 94423 08602 38853 29713 21018 82521 39653 22034 85846  
30874 43003 49369 88640 41364 07626 81288 32015 75855 61855  
29557 00260 58131 11201 29698 85905 00424 39752 91789 62467  
60906 66379 25194 26820 49326 41647 66890 59646 22969 96394  
68119 77377 40145 77910 19010 74085 63380 34642 15881 76752  
29506 35381 00909 62348 28822 33857 28844 10174 60540 14677  
40471 87887 56677 81550 47483 94662 91594 73743 58485 09915  
19371 21682 00781 21025 06194 77662 17663 49077 00000

14641 58565 99501 44265 61081 98184 13880 93566 74636 01086  
03512 14901 34957 09927 78721 20107 77403 57247 55904 34608  
21241 75188 49838 77668 64724 39670 38344 04482 89267 59988  
54004 83508 39884 49752 82621 07506 74078 40116 73099 61681  
96387 21222 88432 97422 20755 22814 52511 85022 27916 69942  
72395 43851 10004 74705 40783 73400 19536 49965 48326 33652  
64994 55972 60512 48196 20166 15838 38766 28544 39446 60789  
10499 43060 96282 91155 17750 78975 86957 64001 99143 70891  
66883 43369 84828 50083 00000

**11079/9162/7509 kHz, 24-01, 1015/1025/1035 UTC**

Null message: 5761 00000

**11079/9162/7509 kHz, 27-01, 1015/1025/1035 UTC**

26802 04975 14567 34709 14028 17162 58026 75846 95055 79754  
62060 70424 35222 93045 71188 31265 24689 13092 66925 47159  
88540 45959 57808 26782 75111 33100 24996 20441 33469 82519  
96875 86840 15995 25440 51104 97053 67002 03127 67534 92894  
83326 13597 80450 41865 57820 72858 03570 55875 41710 70403  
26221 65917 86718 23619 04159 69893 52927 60812 93449 95761  
93286 87539 00853 47210 50734 15920 49145 24042 28839 61626  
80827 34442 21924 38240 48647 41337 15597 03657 66371 10023  
93626 38227 18253 49240 12113 59329 50628 62913 26865 02049  
94076 54697 84955 20664 89588 52566 16359 90612 17173 45594  
86635 15646 50337 50135 96580 69834 84899 47589 39788 29130  
15537 60931 54060 72166 58537 62203 27601 54983 44175 28143  
45938 89366 27156 86154 90494 79486 88560 17789 24771 96526  
27733 11940 29051 95984 67554 84931 69587 07342 21518 09680  
13196 50780 96072 21140 23192 60635 26651 90194 97624 20285  
70825 83198 35718 38133 07033 49347 43486 19417 12305 03070  
14435 13484 17436 93625 46308 41253 63032 79102 79800 32538  
04878 46982 70181 27921 42051 48495 27769 24864 66235 38914  
88186 72750 55662 41006 98342 46530 62111 73805 29073 53675  
64423 13915 50376 54119 86952 81508 30191 97874 06390 68231  
42636 10009 95416 49181 96671 77678 76602 46159 21099 18893  
84992 34376 66852 37711 62834 09806 12510 95550 34860 59370  
83962 53292 37581 01142 24187 63878 01016 86755 74047 20085  
06305 83214 50075 87155 67634 76275 30153 74992 11922 62607  
83051 29573 54687 22906 02751 48308 95551 93149 33481 49001  
81810 76195 96423 47115 13503 60882 54016 21021 88423 40851  
72786 69932 10518 50261 70659 94190 10091 58573 59676 52613  
49267 91624 20062 76571 11147 71140 66573 45496 96087 89903  
93079 53501 73555 64747 06287 21801 62977 34577 84579 36620  
42033 95588 22881 17278 05836 90890 49494 44138 25413 96698  
25854 01106 78958 72311 65123 12366 54262 66032 30573 78042  
45778 94242 99691 38481 94750 35805 04949 21820 45855 08983  
87154 54557 18767 23076 22365 39794 18123 21938 08247 32836  
30286 61586 20863 68846 80377 89078 77795 22246 47986 14844  
68566 02527 65020 95658 38268 16184 44115 70459 35363 49454  
11051 16168 59579 51532 39609 15731 70835 22969 12310 55547  
45148 38933 55461 94483 88438 62024 21969 71651 44198 24316  
20333 45151 55930 83340 13275 78952 70317 81666 34428 20114  
92050 64800 96539 33512 26256 37052 89605 86286 69453 60098  
92387 99179 34989 23894 45748 06950 23883 44640 61240 95064  
77015 69491 63380 04841 69606 92688 89064 24240 33914 12798  
92533 06486 21092 85764 29361 83707 38149 53439 17865 67787  
20939 52294 01411 55604 90216 31991 60024 80859 74058 38508  
44761 79668 15492 41500 33270 51435 00000

**11079/9162/7509 kHz, 28-01, 1015/1025/1035 UTC. Two messages**

63273 26181 46175 77375 34173 70416 79226 17912 92825 41477  
13279 30648 12547 38542 82195 49731 63165 81229 11479 14749  
78050 88514 31637 31349 25938 81589 11189 29993 73469 40316  
57733 65049 49396 68000 60516 21403 46380 44135 72950 20773  
21330 69838 58500 44921 80206 35639 48400 17953 58245 66319  
84607 14871 31520 22499 46463 88603 20796 63639 84471 32665  
73600 02164 09652 21654 35461 03378 11888 96769 46236 10880  
05727 88533 22479 02144 27053 93911 11780 03969 29071 50010  
30019 22477 51058 71545 17456 67349 58296 44273 74619 74992  
92857 00219 55991 52093 00000

58178 14410 77743 21828 86982 99610 38071 37166 42606 24656  
59152 28016 54848 29625 71839 75866 42254 37789 20192 14568  
16822 97885 66623 24807 00136 83526 82686 56811 80606 98175  
67700 92204 66521 59120 62387 80962 14576 58900 49723 14409  
38587 27599 60181 20175 28058 44462 23556 90079 31313 72262

34557 76847 82849 12867 24362 20619 79631 07421 55311 91177  
35991 29603 80938 56845 71827 45390 38513 15966 13797 37750  
66301 51930 14182 19731 62711 97672 17118 84348 29525 20574  
26875 64743 66398 63720 57874 03018 08823 04437 71134 51208  
26721 16051 26825 52823 25888 43815 07631 78380 19439 30926  
92590 53101 00000

**11079/9162/7509 kHz, 29-01, 1015/1025/1035 UTC**

18937 58413 18934 34237 84228 76492 48991 90531 34325 62968  
25682 17320 93826 32707 57686 04755 22259 02157 96371 30250  
84598 60734 86443 80497 05104 58703 99121 86081 84124 10004  
40017 29623 82598 33455 48907 13404 03902 80777 33594 97396  
27756 24871 05023 43643 75870 06775 05876 27920 14011 64768  
49790 04620 20182 94031 13420 35807 73614 10310 48519 20351  
44228 16024 06220 84115 87288 92250 90721 17106 72909 65032  
84545 68528 05121 19427 12572 35709 10162 59759 37026 07780  
98712 39497 00614 50101 31729 09196 59987 40337 44582 55941  
76727 92134 09186 32741 58038 27329 38804 01294 64334 82634  
65212 36568 25907 61728 42919 66642 35864 68701 60117 46237  
11524 83777 61071 87367 41459 67266 09608 95570 60361 02672  
48414 85134 18941 14896 33820 71765 41017 24486 50758 66137  
85017 23845 37587 16759 52051 86357 75465 75588 07749 44364  
21964 84849 10072 96914 93601 08464 60251 33252 27000 56562  
19071 82952 73332 76491 55663 28662 05765 08767 21012 42370  
44573 31398 63354 31156 29620 41042 27662 03343 94887 44397  
06389 91006 24743 58298 33681 89757 96634 41934 40231 01758  
39898 09638 10958 92888 65367 97675 12713 00023 45466 83479  
84192 49329 49484 80755 05241 71545 63711 58918 87737 25171  
51123 60264 55256 63499 30307 13349 03679 06435 78311 65989  
59950 03043 87109 86329 81174 95746 28366 05414 61221 22130  
06185 99699 37042 15273 02541 36952 11885 88557 45073 33948  
37588 15893 51923 99444 23140 43274 33322 60829 61702 92637  
54587 97901 93274 43933 90253 32229 45189 06361 23985 45493  
17630 14698 73990 25287 06353 11673 48603 61790 79808 02298  
61730 43757 52836 91121 62853 27261 24138 38328 61265 75628  
69703 95618 49229 94007 09381 07814 53759 06994 88779 91122  
71695 52765 43694 24003 67769 92162 39233 11564 40344 56138  
00844 09431 84520 80031 79416 18031 07290 98092 17661 83219  
74428 96700 09944 64194 93816 49705 72757 54633 64871 84340  
68036 67989 48779 51144 46483 22885 39217 96309 03103 89543  
38251 59924 62138 83189 67093 48521 33576 15361 66420 55387  
08435 39068 65913 27060 84999 48743 27741 99452 43208 20904  
93645 52051 09365 06481 90331 53606 78375 10746 72843 97775  
85693 21772 10621 52140 46149 73365 45912 69038 01877 53409  
79246 31651 46495 93556 61636 33784 17760 01206 98208 16776  
75847 19698 92951 11968 09480 27678 89260 62188 37066 13550  
85970 20669 95048 85970 33564 50841 30648 06313 40251 75456  
41189 54040 42583 48453 27192 60932 20325 48014 51425 75086  
60235 14258 21103 40653 98470 79997 35412 04225 96286 67993  
65558 83823 28732 53160 59526 61423 91005 13143 88718 84949  
52197 15714 78699 90679 11057 16427 91185 82001 33521 64951  
49507 25450 76650 43549 24713 49967 28695 54437 00000

**11079/9162/7509 kHz, 30-01, 1015/1025/1035 UTC. Two messages**

51339 83551 72201 23144 90067 79519 94837 06057 32108 21145  
30275 70873 49713 53641 99380 70930 29565 85396 93983 89756  
86249 49082 51132 56124 56291 65577 41517 29916 46194 77931  
07994 38463 32928 47520 15133 68070 40283 29604 95747 40405  
39551 70461 05336 28428 47956 93299 20358 91571 23280 65118  
41311 34837 78106 61716 86521 21513 62148 73032 87598 94184  
86064 16009 22482 83739 85224 47154 47028 11045 46849 92004  
11074 10989 48972 33673 69895 33576 84651 27657 27035 01753  
69872 35112 69393 30670 58582 91763 80558 38048 13289 54656

43290 00352 04664 93921 67097 34445 38586 21745 01861 09427  
34069 75742 23419 18333 00496 98902 02068 64379 87617 83312  
89909 55111 00000

69163 70792 94171 87654 65067 62512 28520 11856 17039 20461  
25021 09705 90711 49538 66848 65401 23759 96487 54586 91213  
99278 60556 78293 81551 84892 32771 32633 82366 48521 18517  
48508 43074 86737 23102 39641 43190 26670 04997 87520 10844  
87373 26441 13180 75394 11608 56094 09219 21301 03970 03436  
30522 35457 36303 89578 67100 65166 06339 84201 47508 28956  
60488 63287 46257 47400 16740 67339 93670 86159 48587 64779  
11624 28411 15934 50211 23593 18860 53900 32228 12465 46521  
55489 90463 24533 58461 09029 06571 43122 21676 76336 98802  
80286 75311 22556 14910 60002 40400 33572 63012 91307 79294  
81979 85158 54821 22015 27513 03235 51072 01661 62889 91940  
84094 66099 41001 58488 78698 58114 44393 56117 00000

**11079/9162/7509 kHz, 31-01, 1015/1025/1035 UTC**

Null message: 5761 00000

Link 00116 via Cuba

**17411/15956 kHz, 10-01, 2230/2240 UTC**

11177 00116 75312 09002 02039  
18792 02375 92289 73612 93194 78450 36106 32061 55476 56937  
45254 74430 78688 43149 20689 26649 50487 17272 26106 15949  
09177 11597 76736 56394 81293 90885 09638 56115 98481 03044  
44763 17596 21785 74185 97538 83189 64333 86048 88977 64303  
09254 05946 92247 75481 28936 80210 51108 50646 25862 84724  
06299 08131 10340 39196 93380 56640 04626 \_\_\_\_\_  
61321 59914 91075 87048 04296 10422 20552 90283 80409 19625  
44993 60502 94351 74314 69422 64128 89288 86838 33380 47689  
06879 03337 32652 65879 60410 48708 62479 39283 01789 15492  
57499 45935 70819 97825 34902 01962 12073 11905 67740 64748  
58260 66462 89607 01013 77264 52029 09945 10378 86046 76097  
59785 33837 93787 41909 88584 37138 09799 32437 12202 17517  
41711 17040 85166 21964 80810 22975 64637 97491 70608 53941  
54155 49838 52227 03463 63344 39725 89024 76571 33385 10876  
35080 41135 93415 08356 59907 63761 50650 81226 91042 74032  
80370 03492 74252 44386 08922 31834 22451 75716 98133 37986  
70484 81685 21996 06499 08931 \_\_\_\_\_ 04013 74113  
03217 56542 21724 16578 59273 64797 22163 02156 50034 66025  
89506 08378 21058 55073 82307 77691 19089 88037 06921 77976  
27158 84565 68488 38752 45057 32721 34941 95741 22162 02297  
43561 02201 00000

**17411/15956 kHz, 17-01, 2230/2240 UTC**

11177 00116 74125 16003 01229  
41711 17040 85166 21964 80810 22975 64637 97491 70608 53941  
54155 49838 52227 03463 63344 39725 89024 76571 33385 10876  
35080 41135 93415 08356 59907 63761 50650 81226 91042 74032  
80370 03492 74252 44386 08922 31834 22451 75716 98133 37986  
70484 81685 21996 06499 08931 48967 73712 21509 04013 74113  
03217 56542 21724 16578 59273 64797 22163 02156 50034 66025  
89506 08378 21058 55073 82307 77691 19089 88037 06921 77976  
27158 84565 68488 38752 45057 32721 34941 95741 22162 02297  
43561 40312 77981 07601 02519 71312 06874 92445 91289 60640  
94546 63995 21309 91345 85733 89553 86033 61870 51103 00454  
24999 49816 39334 61561 72292 81247 86377 23725 37681 36403  
58509 98024 90120 06390 \_\_\_\_\_ 79103 59484 69290  
03120 00000

**17411/15956 kHz, 31-01, 2230/2240 UTC**

11177 00116 92364 31005 01839  
21716 17434 23674 51155 85130 38664 53634 35142 51665 82756  
23291 89851 59590 05498 08724 56399 93068 95639 68408 75777  
75112 33460 04787 40444 44243 67784 18116 07319 38268 28651  
38540 01912 33638 17807 47330 68240 13791 44224 23211 44238  
64953 96824 74726 67340 22814 71596 44588 39932 18508 95292  
96913 09346 97367 12906 23333 42099 08853 31089 28866 97059  
91118 34729 83530 27216 98642 18850 50604 64760 46362 03035  
27493 69151 68749 20557 60122 42853 17266 99400 16816 44443  
44632 77372 32570 53763 49359 18472 59685 68818 78954 22727  
85680 39089 15279 46672 04429 64970 90448 76652 51452 17998  
06759 22163 39320 61576 59035 21371 54075 76873 82874 76057  
98637 23580 77190 58126 94114 90219 74530 54882 74963 13703  
57562 45275 38937 72800 45209 24282 37746 85230 96836 17621  
19393 63047 07957 53988 58095 06025 95858 86999 32745 37702  
98631 84025 39844 13806 35995 24113 51847 57715 05390 72172  
56851 02670 11754 21621 40576 45398 54432 22674 96556 40865  
19651 38470 75508 92817 51995 96204 09782 19817 03329 25487  
73853 01448 82592 01075 66792 34395 54920 32206 27631 53065  
63506 05181 00000

F06 – FSK 200/1000

Link 00052

**19667/17546/15604 kHz, 08-01/09-01, 0900/0910/0920 UTC**

11166 00052 98741 08052 01699  
94594 47090 47378 92412 33123 27283 40718 93918 36120 76505  
93721 86662 48111 76185 31384 59860 81387 93372 43125 06482  
48490 71036 03046 68290 89562 41513 05907 59496 52674 05283  
29768 23704 97330 42267 61232 03855 62923 47837 44212 29843  
25559 10709 38179 53496 91708 74924 96820 85600 02103 53104  
03039 14676 44328 83154 21245 12163 97545 45621 52867 53738  
57778 83870 06026 11413 17198 94295 15297 96139 95864 78726  
72522 55575 49332 76235 54584 56723 00577 16526 59092 08116  
69679 62087 83918 01241 99697 31310 11520 75891 02169 19743  
83976 39128 70676 61688 79698 92546 35924 99305 27725 47526  
60744 51431 20560 33163 98498 99293 11478 26557 63279 31301  
07250 60157 85375 14109 92198 85843 50426 82138 44562 00430  
45704 62743 31057 62286 61964 79201 90618 53762 24296 98738  
43232 69088 50420 17748 84795 32468 59862 01404 53966 76022  
82440 19872 81905 32289 39511 48268 60875 20960 96404 22593  
92625 34544 09488 68797 02496 52643 16295 47189 30180 39529  
42165 79352 33093 04708 21814 49781 74839 52167 00000

**19667/17546/15604 kHz, 22-01/23-01, 0900/0910/0920 UTC**

11166 00052 78694 22053 01089  
38286 67383 59446 62837 71072 73175 35898 73472 36120 76753  
95109 99874 23104 33760 72014 75279 12240 28579 34686 45885  
23302 32939 96145 23657 25363 13458 70805 62267 69872 17791  
23972 98379 65800 94085 87854 25442 17374 23419 42519 92191  
85352 69911 85214 43058 57773 78213 36523 42641 41105 73028  
56757 51461 07753 40384 71050 45170 60848 95326 26581 94398  
02260 65727 30359 47447 14765 46891 41012 82982 94316 06654  
13024 24955 93352 45651 16839 36900 61069 42459 83296 37827  
91610 38275 45807 06876 16101 40848 78728 68930 99464 52324  
55363 78379 27975 50710 74033 43204 98448 79643 25645 56591  
45052 26139 01208 28247 64633 91020 53106 00000

Link 07005

**6925/5235/4528 kHz, 20-01, 0500/0510/0520 UTC**  
11166 07005 95397 120172 00049 000000 00000 00000 00000

Link 10053

**10378/9169/6419 kHz, 05-01, 1510/1530/1550 UTC**  
11166 10053 23698 05001 00049 00000 00000 00000 00000

**10378/9169/6419 kHz, 12-01, 1510/1530/1550 UTC**  
11166 10053 14789 12001 00049 00000 00000 00000 00000

**10378/9169/6419 kHz, 19-01, 1510/1530/1550 UTC**  
11166 10053 17935 19176 00049 00000 00000 00000 00000

**10378/9169/6419 kHz, 26-01, 1510/1530/1550 UTC**  
11166 10053 13579 26067 00049 00000 00000 00000 00000

**10383/9046/7313 kHz, 07-01, 1650/1700/1710 UTC**  
11166 10053 17935 07163 00049 00000 00000 00000 00000

**10383/9046/7313 kHz, 14-01, 1650/1700/1710 UTC**  
11166 10053 97531 14071 00049 00000 00000 00000 00000

**10383/9046/7313 kHz, 19-01, 1650/1700/1710 UTC**  
11166 10053 17935 19176 00049 00000 00000 00000 00000

**10383/9046/7313 kHz, 28-01, 1650/1700/1710 UTC**  
11166 10053 14789 28001 00049 00000 00000 00000 00000

Link 40122

Due to the very bad conditions I heard this link only once in January.

**20154/18304/16156 kHz, 08-01, 0600/0610/0620 UTC. Two messages**

11166 40122 63482 04067 03129  
37271 79437 48305 14662 40851 90331 87947 39813 06662 46520  
38849 15499 47911 51523 80985 28483 07859 43880 93261 79329  
94477 64212 57563 46386 19120 42297 62900 50261 37621 96360  
70584 23463 17292 61751 26381 14916 78215 91207 30573 84019  
82305 93885 01872 63947 68555 05351 96108 98875 57914 05712  
65655 84818 76228 28086 70501 68767 68690 24580 76929 85821  
04226 81989 04725 38990 93262 04380 08862 51357 67313 04759  
06595 45301 93812 73009 85898 28450 24648 12292 56197 91064  
01815 61080 27312 44530 68643 43032 27571 55653 60027 11883  
97014 56449 70090 83543 16637 34095 20738 72594 59603 30760  
79520 75357 75373 07972 00254 66742 42674 55235 84826 03049  
52253 47567 89643 47911 05368 81645 25127 63579 38917 45265  
21730 34711 13183 99777 60884 16880 23104 80201 94332 26978  
19023 42711 00274 17689 47837 14158 49760 03245 50507 23343  
81795 28633 76844 18712 10550 99445 03521 02158 13149 14569  
66244 33636 71463 68881 42023 86253 66343 18169 42475 56546  
47728 23426 04100 59612 29071 16751 86471 63798 79527 55991  
14268 44627 12319 60370 24097 62641 92743 44236 02033 94874  
14239 91155 22823 74609 15954 35526 26688 19136 40264 43890  
94657 50175 53664 13149 08377 36674 79476 27853 05327 14645  
15812 43769 65390 63752 37225 89899 89703 45318 45509 88010  
87368 92344 98005 04708 40011 26845 50988 01087 36892 34498  
00504 70840 01126 55951 23947 42665 01960 11922 79114 76618  
70017 82261 73934 30677 61870 58196 81404 29172 70916 40487  
49150 04353 03990 66205 52060 53295 34623 18812 61419 77319  
68911 01223 28985 96124 84912 76546 09441 53810 31515 06194  
69670 58981 97717 40025 58277 26126 88264 38251 33809 10450  
66552 29749 75095 53347 50769 36494 22165 80717 74194 18793  
21160 21292 45586 21007 71691 37164 70616 22448 00078 83729  
20273 23139 06895 41190 57165 19123 62285 84841 55694 47018  
47453 86308 76988 02490 65795 62930 84578 62335 72086 17478  
67310 00000

11166 40122 19584 04068 02729  
11718 64883 93186 35384 16317 28361 38669 31690 84396 11954  
24847 64881 68025 49219 60599 59804 68661 08558 68464 06859  
01843 60414 39416 29637 04168 55912 44772 38218 68489 46599



53668 10290 18276 99991 29537 67288 57069 90605 04028 37746  
53975 71174 51803 25036 51129 53711 14659 21698 04068 55143  
48386 37527 90955 87166 90837 33635 51592 95035 74612 79637  
42139 74966 32815 76184 16512 24837 71313 10012 70370 07876  
05938 33690 08637 34032 88064 87278 22500 88701 67010 04054  
86809 63506 62682 67509 13841 68815 46920 11817 24328 32688  
56964 82927 21726 15930 89496 02502 80632 97951 48678 01871  
85307 13118 46633 18192 79229 42265 79808 70004 11618 89089  
29653 54370 91874 96085 61047 32778 87869 79715 16928 98008  
29004 89512 32537 39140 00011 20796 17742 46896 36406 35683  
80857 26496 57534 72091 92410 10232 98160 45419 12278 86XXX  
XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX 12922 34333 27029  
97463 61261 31601 79175 32303 34642 46319 23684 25645 37333  
61165 12187 76141 12831 69265 83367 73629 49105 99404 00858  
09777 47051 43829 39723 04124 00440 26741 72710 54077 39637  
91649 50738 56095 31283 68500 82306 21580 51108 06535 41524  
35362 72092 83802 59433 31879 35131 29276 78330 84709 94419  
18496 73752 35671 54727 28696 73829 10263 42749 64330 30697  
93444 79737 88954 23631 64097 47580 24391 98623 11625 65530  
03108 74060 83110 19764 84776 67206 34486 12963 72906 21178  
841XX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX X5317 44135  
97213 01110 07269 52046 72511 51301 63711 10314 54359 94804  
48437 50209 35050 03849 19172 19254 96104 83100 59436 11208  
62059 08920 94456 44360 60169 71666 21427 06614 14598 90374  
68270 00000

Link 40133

**18276/16213/14493 kHz, 04-01, 1500/1510/1520 UTC**

11166 40133 14789 04001 00049 00000 00000 00000 00000

**18276/16213/14493 kHz, 11-01, 1500/1510/1520 UTC**

11166 40133 17935 11038 00049 00000 00000 00000 00000

Link 60070

**10164/8179/6786 kHz, 21-01, 0030/0040/0050 UTC**

11166 60070 14789 21001 00049 00000 00000 00000 00000

**10164/8179/6786 kHz, 28-01, 0030/0040/0050 UTC**

11166 60070 53971 28349 00049 00000 00000 00000 00000

Link 70048

**8038/7417/5825 kHz, 02-01, 0800/0810/0820 UTC**

11166 70048 74123 02001 00049 00000 00000 00000 00000

**8038/7417/5825 kHz, 09-01, 0800/0810/0820 UTC**

11166 70048 23658 09001 00049 00000 00000 00000 00000

**8038/7417/5825 kHz, 16-01, 0800/0810/0820 UTC**

11166 70048 14789 16001 00049 00000 00000 00000 00000

**8038/7417/5825 kHz, 30-01, 0800/0810/0820 UTC**

11166 70048 78945 30001 00049 00000 00000 00000 00000

**10294/8068 kHz, 01-01, 0710/0720 UTC**

**12154/10158/8023 kHz, 01-01, 1200/1210/1220 UTC**

11166 70202 35946 31067 02759  
49133 51278 25296 39310 91341 97938 71366 06851 81690 46421  
64944 67957 40313 40040 10848 63000 25479 27242 11842 83417  
57438 99594 52300 58769 97449 05646 61261 40768 11660 89098  
97066 95210 74545 24746 20764 37769 91582 50593 50475 74555  
45850 19606 13905 33418 98241 19535 41178 96891 95983 34231  
65201 72750 69132 44913 21732 63094 19756 94808 66336 17902  
33475 65613 50438 84006 68057 39204 23626 85406 98746 43040  
54427 95867 25018 02700 86724 89751 68450 49977 73996 81994  
16395 59988 58590 93189 91136 15711 88191 00708 49227 23415  
86694 61783 40683 27396 21648 19515 82734 97472 35481 27716  
27813 87669 32673 55541 30462 89536 40079 57846 42868 28522  
82582 22203 93681 76863 41264 28510 29837 81410 86287 82144  
26039 29832 01669 06578 91622 03633 44132 06413 29453 91433  
03241 36757 26571 60935 54974 39890 81262 13015 25959 35149  
96240 66387 10527 72973 92627 46271 07791 89052 24428 75495  
70939 19501 98175 91487 85904 63016 27442 37573 21638 00937  
76900 02032 19130 11151 75623 03351 11408 36795 04310 45096  
91666 95672 86122 88854 71732 41326 35827 18688 98051 11718  
46921 95512 17377 26439 21436 24875 09363 18392 72104 86528  
28224 10887 51579 99275 20684 76078 88386 19496 12362 35696  
34310 96801 79816 89988 52884 35267 50418 85840 03689 33650  
97237 59970 02137 03070 21147 18178 59430 85546 37312 36559  
32385 21874 08265 95627 37803 42233 90753 83287 11089 78008  
88536 27596 13780 18219 28336 45236 19705 59030 01111 16662  
34432 19762 35855 23838 27710 23839 98105 11505 83582 68120  
30337 57935 97870 29046 76445 66082 77699 79038 57499 11086  
22770 11592 90945 05061 93048 98493 70465 65111 92579 27612  
48652 95497 24091 67273 00000

**12177/10294/8068 kHz, 02-01, 0700/0710/0720 UTC. Two messages**

**12154/10158/8023 kHz, 02-01, 1200/1210/1220 UTC. Two messages**

11166 70202 13589 30068 01879  
91389 70358 94802 82902 67291 06078 96135 11772 65120 75035  
02000 56513 16226 19013 21463 38323 80862 85643 99501 91146  
49036 01405 25713 23972 45752 66585 52882 32451 82836 83160  
80114 33265 24529 51511 80189 19686 59039 96932 75852 61764  
93238 11867 94714 99586 12692 24792 57458 03035 74200 31706  
79020 96484 23061 51157 87464 71888 52213 88735 90208 38670  
45470 21980 42303 83875 72020 41631 96450 41013 24384 10170  
39449 91025 17017 23582 44752 43827 87743 87274 95824 73843  
69213 42101 59987 07992 22557 01411 17443 89546 50446 85079  
75159 66314 31729 61444 20309 76562 44837 33089 92937 31149  
72151 27417 82569 15266 02507 77939 78419 58265 74037 07232  
27908 44974 24532 47480 83161 66963 41506 59574 40194 37188  
29160 36658 00448 16444 34423 03102 09385 25084 99267 44819  
51817 38421 31481 31865 08668 89258 11074 19265 04835 25993  
74537 36994 02866 99716 44099 05059 22116 78759 94202 34621  
88080 14116 72375 01077 41598 04185 16675 00067 62592 32260  
36910 22316 88066 75220 51821 08268 29011 06839 99395 68444  
15929 44168 62523 80455 27669 10422 77169 98613 83233 12800  
15254 37084 01275 58698 59426 68185 00000

11166 70202 56981 30069 02089  
51408 88768 70219 35828 06030 44921 89160 36160 09568 40646  
01231 80027 28035 36354 35208 19987 42554 04336 60930 22101  
42787 64652 12461 00501 93503 86732 39859 95015 16487 67647  
44263 65310 54951 22964 75949 99956 12678 51148 00079 63894  
85034 57436 59799 32696 24085 48115 91398 87096 04962 31148

71200 66207 85701 84094 98881 02865 77718 75239 46907 89537  
69120 48897 30758 48247 68030 10798 79660 02920 58126 74525  
12475 77629 83572 54913 48464 69142 05528 19358 07597 67230  
97432 32981 80105 21164 71243 58572 69953 75843 51819 97259  
41929 25986 41637 80833 27035 61829 43026 51674 65862 04764  
30109 91213 94647 56356 87639 82869 03687 09178 58923 20383  
22804 92895 70002 97515 13560 54048 22302 40027 72878 92958  
70921 65866 77795 06204 30754 84537 26001 08095 77632 71555  
51877 29598 36669 78935 22706 18131 75007 67659 44741 86678  
41144 73052 33834 85661 18020 39000 30294 95999 82077 81961  
62676 66796 85450 70695 90185 46096 03500 32654 78375 78145  
14853 22969 87839 65593 06164 16974 80574 20069 18760 12203  
73716 49579 79374 50792 95312 56162 82148 98240 21846 42221  
14083 39441 02176 49004 41149 77946 97595 75631 97215 49390  
92692 52144 43006 85004 56695 64983 87261 86177 59989 58349  
87291 95977 75511 59881 71113 78590 69206 00000

**12177/10294/8068 kHz, 03-01, 0700/0710/0720 UTC**

11166 70202 85697 03043 00049 00000 00000 00000 00000

**12177/10294/8068 kHz, 06-01, 0700/0710/0720 UTC**

**12154/10158/8023 kHz, 06-01, 1200/1210/1220 UTC**

11166 70202 45687 30070 02479

12714 60041 17674 40319 98553 02676 52609 96775 54484 74291  
89161 65178 90999 60932 00400 00098 02126 13559 20297 42284  
20977 19600 70244 94950 19950 97643 01277 78678 03973 57474  
62965 19616 70272 92613 34903 50672 33067 97574 81732 30379  
36654 27017 17636 09121 05300 38972 91245 97417 03395 89346  
26897 15942 04292 69880 83164 31960 91276 06749 14627 11895  
39107 61994 47787 44677 49552 04985 07091 15599 39374 46069  
51981 35332 04190 49639 10927 53813 06650 68760 23361 13681  
62366 68585 25459 22952 22040 30710 40719 51619 73207 55691  
61246 81865 10064 05881 30708 66579 44780 55786 64887 75858  
58770 42143 70764 36184 17334 30868 50079 91966 96110 43110  
98294 44138 92797 07562 34918 45479 22550 31226 26100 57380  
20516 05836 85457 97708 99935 92098 64059 34482 39244 48962  
65507 05023 96615 00089 47056 65296 75390 54722 92696 99108  
88807 25142 69161 41853 97507 07875 00770 98500 18211 20879  
24061 60511 27037 13860 08148 51357 05879 93927 51734 55354  
05296 33766 92728 09476 22332 54514 91389 62841 16725 00538  
72946 33574 13928 48291 40635 17703 68379 16437 95070 29809  
85476 69431 20916 80091 25668 31753 26765 17553 39112 54959  
49191 93979 04348 04767 56890 28414 69401 60338 15862 76805  
18768 42959 01560 36514 14719 16306 68954 40376 86356 25471  
16443 20006 64862 66960 04546 43014 88369 06818 15322 53852  
24915 89096 63447 72951 86877 01845 94893 33848 35371 92793  
34134 62986 98010 51945 65828 31890 48495 03245 61918 36375  
21448 72515 90068 82506 60944 70245 00000

**12177/10294/8068 kHz, 07-01, 0700/0710/0720 UTC. Two messages**

**12154/10158/8023 kHz, 07-01, 1200/1210/1220 UTC. Two messages**

11166 70202 15974 30071 01579

15634 60616 84197 35016 76551 60827 87083 77238 19886 04911  
76111 23167 42027 20996 97774 09437 22032 58728 47142 20646  
04155 20702 18805 12836 58999 86968 23155 63627 77973 06049  
35185 84963 80729 50877 67988 59382 40276 63137 88161 85757  
55461 34407 15285 45461 25500 97556 72672 24866 06245 26843  
81579 55127 52878 70126 16058 55205 78721 61663 60635 89029  
84840 88890 38024 72767 40146 11661 99027 93135 16660 57355  
91851 22669 09657 40307 52985 42912 97347 78986 86859 11457  
19804 09372 26467 33755 81808 17949 92112 25669 09319 42786  
90507 77666 14234 16099 21383 56630 47140 46766 83798 06186  
42751 66224 99362 31514 87686 86174 94522 79569 65324 41544

09126 50644 57377 17142 23444 02222 06901 81441 20835 31048  
72411 75929 28241 44371 27809 33461 01705 56266 87786 24050  
49093 70005 63410 51549 07216 32400 77573 49633 15520 71045  
94991 50549 53568 50422 46441 25045 34459 07778 51920 16939  
71400 54731 72428 20750 59611 71155 00000

11166 70202 95147 30072 01859  
74822 71304 55832 56572 13295 99646 58219 75695 63890 22734  
00277 99448 51858 17862 98725 37690 32715 68732 77725 14411  
17406 60033 85489 69583 75303 61169 56711 90016 82228 35093  
00464 67652 05665 33172 18296 08732 44384 62032 82172 42293  
64643 33303 26974 01412 00154 32217 37236 75636 08009 65990  
32812 58052 97752 77931 83146 35413 75786 38206 04856 94776  
72290 47195 22290 45076 42850 12399 95775 77079 61985 84805  
47219 10161 50753 65671 37762 99320 05624 19651 77176 00909  
20815 55209 69679 20464 21269 58261 25870 91130 48459 89964  
95460 56072 66224 84616 00496 53326 78797 08581 73755 26546  
78243 66194 32009 10049 63466 63575 38831 61621 97991 66284  
36650 41523 98710 11769 52721 61107 72757 62533 08718 49516  
44727 10965 88619 11880 41411 71758 44591 77449 26239 22878  
45534 61122 00617 80993 98005 86767 14342 22317 94182 45821  
52295 84800 66572 89557 89584 12610 54141 78505 32333 28822  
09557 37414 86305 47288 02242 89238 20543 59585 96897 66555  
18219 58013 12224 23862 31876 80556 89483 99193 85254 88757  
25630 98488 88883 14446 50672 01152 61635 36235 53956 10242  
75423 71763 89069 72183 00000

**12177/10294/8068 kHz, 08-01, 0700/0710/0720 UTC**

**12154/10158/8023 kHz, 08-01, 1200/1210/1220 UTC**

11166 70202 56987 30073 02789  
24592 49181 92713 90181 85949 78927 99495 30658 02697 42206  
52191 68502 28124 72151 24836 90772 56874 13723 76004 34159  
66509 00318 75581 37613 74417 07032 14840 11480 77232 16522  
79507 21581 64964 58408 90506 11663 27026 08141 42059 12669  
92334 56283 91838 12269 70692 84141 82868 83069 87614 06673  
01839 92965 29810 68631 03536 46048 43491 04855 56080 27520  
52698 00667 86645 51055 89841 13302 32356 32035 55627 40307  
26045 35098 50569 45858 71571 69450 45276 80916 88364 30357  
81686 58174 29901 10277 22450 67723 05794 28050 90650 44381  
62181 49594 67034 22619 00103 98550 36955 40021 36558 80290  
04211 75218 37917 67758 13960 31231 80391 22554 51913 00161  
17239 49713 11978 70167 57396 09616 49544 60667 85223 35461  
62613 96690 76048 29744 67933 58342 87201 38176 64349 66289  
29226 24484 00548 89229 46950 94522 89377 84263 65111 43149  
35951 06120 78219 22277 71688 46157 89342 53567 11520 87099  
27507 34188 76408 84428 98403 09069 48401 10363 48075 08104  
50381 21390 44281 71731 67721 35258 05231 13330 54009 28383  
30359 91869 88051 89600 12848 93251 74333 91206 38567 43780  
04117 63220 01136 04199 19376 81800 87778 17733 46754 07771  
15670 10567 93720 36172 23461 68211 24129 42785 47660 36177  
55351 38576 38573 18408 44190 67974 95475 71901 53737 11947  
25714 20964 18387 81788 57418 39525 49170 14576 60519 74961  
46624 06219 55747 11862 13349 43043 16313 99166 83477 17852  
91949 89128 11215 41392 10005 61523 85651 85174 33269 31556  
64038 16568 79236 64892 40694 12130 30472 48258 93757 60087  
90782 89043 76952 87919 66876 42348 48560 75976 80198 88901  
54788 43063 38625 12308 09721 14946 22718 49035 39037 11696  
66206 09605 79687 14823 35402 94400 73276 00000

**12177/10294/8068 kHz, 09-01, 0700/0710/0720 UTC. Two messages**

**12154/10158/8023 kHz, 09-01, 1200/1210/1220 UTC. Two messages**

11166 70202 26085 09074 01619

19798 05529 93582 52957 80823 77502 84456 46240 61243 46776  
52549 24522 87729 84583 18361 86953 14317 27472 71530 91280  
52468 21409 60140 44099 41093 65602 78549 83781 79938 73214  
39702 85769 74795 91150 42848 44912 67964 46123 72604 14556  
52411 09175 90313 07041 93042 95842 03610 85327 03563 44152  
25160 00418 52324 37636 56491 54256 95621 65558 57858 92824  
61867 37529 90085 59084 35078 94708 39315 60473 11123 84771  
60601 30651 25156 92838 01301 90151 73680 45546 90169 35667  
79680 30447 03133 12622 74255 97933 41649 50737 93196 37872  
84603 67273 11939 48120 99683 67633 67335 37138 25159 98016  
39681 27860 58006 29817 93430 55032 09328 80434 00042 73185  
12989 00214 91388 17448 98406 80176 17177 84369 63454 60239  
04801 24964 08383 42614 45081 67134 16727 40067 52315 09687  
94116 13732 72084 55113 00938 80156 35251 73330 39774 92281  
81588 13563 83578 24025 01468 06559 55500 13177 69062 24324  
96308 42271 65481 89565 80355 62143 15287 52029 66007 74159  
00000

11166 70202 40237 09075 01839

05071 79814 62776 28519 60467 04170 06495 82100 29789 90176  
95118 26290 96602 56217 98377 73768 19509 46253 65831 96141  
50548 65580 24424 05448 11513 06141 23789 74443 64105 41076  
27750 87838 34886 93197 75442 41685 80939 07082 60511 33088  
07200 79449 01807 07441 71380 27555 04021 55373 37433 00231  
31708 76579 63480 61308 45115 52743 35160 00086 71271 96723  
80316 48533 08769 70199 25975 09921 89667 86961 83545 28571  
46970 44034 73175 55396 61100 47812 23211 88938 83826 27415  
05688 96578 63053 52427 93794 45603 16942 97222 52249 98838  
30777 19061 96522 54502 75028 42136 81840 35000 68037 64776  
07922 54319 31775 31968 50360 18736 14101 40407 54620 40504  
75964 68250 53556 69220 66983 46768 94406 70553 37842 16072  
86206 07025 62938 32118 03533 00526 71729 17163 07549 81264  
12199 70867 70265 52820 94894 84231 12961 28003 90971 23544  
94698 15198 82669 76549 11886 59893 89678 77997 94798 71057  
19815 56787 12018 87082 17450 71867 18717 60955 08138 29104  
09729 69357 62862 96288 63340 75380 30361 58477 86745 99540  
10938 80853 99096 78779 70238 71293 13087 18145 16380 59826  
01012 75181 00000

**12177/10294/8068 kHz, 10-01, 0700/0710/0720 UTC**

11166 70202 87645 10090 00049 00000 00000 00000 00000

**12177/10294/8068 kHz, 13-01, 0700/0710/0720 UTC**

**12154/10158/8023 kHz, 13-01, 1200/1210/1220 UTC**

11166 70202 78456 10076 02559

27136 73432 77452 35473 16265 04173 40910 22911 11147 01704  
17510 17350 74023 36974 35709 04596 26575 56646 95103 89059  
97963 17050 04955 30104 25313 80343 33740 33567 30071 90066  
55679 28146 18685 68280 05175 81333 81036 01474 75094 34592  
85061 07426 19842 62455 91002 00219 49150 85242 33727 95571  
23534 90070 46550 23707 87337 39858 24997 41915 00328 75003  
53946 64015 53743 37426 46588 48899 81770 71661 68634 15348  
04355 82687 46229 75295 62304 55187 80975 02751 30614 63911  
20536 80539 20949 29856 58239 92073 09225 01916 60122 50320  
49228 68722 42851 81176 58203 30342 50968 03412 85353 84520  
06879 72394 99186 07178 32041 79762 54651 31812 62778 26249  
25987 57533 09159 09830 16243 40384 30384 96403 79391 47660  
25109 65165 15975 79898 60152 45883 28226 90229 86013 90252  
45598 55788 12652 44526 56649 80851 43950 15592 08198 36410  
94308 47701 57716 65850 35814 52033 89872 11439 49396 56267

33179 41289 78442 66371 37666 81516 08278 57782 99540 83240  
19973 38170 43743 79153 91898 48966 00362 09313 47469 97856  
35823 20873 72528 39412 24814 71420 50782 46054 73857 90613  
90753 36544 32487 79811 42668 54168 52960 54375 28721 11832  
84440 58337 35160 46223 12588 06117 39625 48252 80507 30977  
72178 61947 51967 44906 33458 68994 02855 39612 18405 01108  
51778 83318 18993 47426 65782 93048 04396 49102 02081 87085  
02035 98303 71779 47293 27947 83785 36496 45992 39903 50232  
73832 17071 11717 63563 72635 76024 52184 99375 43973 18605  
17091 96724 58780 52772 87717 44419 48089 43636 14296 92028  
26812 76070 47836 76253 00000

**12177/10294/8068 kHz, 14-01, 0700/0710/0720 UTC. Two messages**

**12154/10158/8023 kHz, 14-01, 1200/1210/1220 UTC. Two messages**

11166 70202 75249 13077 01799  
28320 15422 06915 76141 65413 73960 85169 96309 16074 03228  
45601 40346 02592 52151 95233 30269 44497 40621 19713 00332  
18218 51541 12349 86014 20752 42914 03266 13489 35767 72124  
49574 94268 25593 49619 72530 54719 97519 64170 52591 55118  
17856 46908 18331 77958 72178 66309 90133 90166 95202 71327  
64607 08949 18734 24866 50669 25928 11110 94755 93213 69267  
06587 94450 45327 08481 48112 90614 74972 31593 91906 19790  
17080 49362 47299 81333 06987 06234 50258 98814 56169 02720  
94049 67055 56187 58898 65460 26998 21792 73705 60029 35601  
09139 59722 74711 22937 70022 58130 01433 53681 28098 63538  
69949 35191 87998 13355 13472 39351 13314 21401 55471 30370  
34346 60445 41122 15731 71587 23361 61803 62465 85862 17569  
46113 45957 91069 72486 15815 23440 90445 64640 30170 49400  
22322 90140 67084 75060 26273 39222 14507 99123 65620 52500  
70522 61987 67228 63673 75569 00594 64506 58329 25231 06110  
54587 03550 37024 51640 05594 28009 69629 82128 74944 57246  
18004 83669 24626 33802 32812 74393 44390 76902 37600 84124  
18777 61384 42174 14993 98944 20546 75600 77177 00000

11166 70202 23491 13078 02619  
61091 95577 01632 31687 64214 79712 54668 07412 39208 54797  
21987 60007 64908 10495 04309 30161 05180 43246 44472 10166  
86984 90379 16684 83925 69176 17820 83840 07298 12953 16100  
96345 95954 89907 84369 30878 12946 88611 07071 92529 73166  
05678 52978 28768 06896 32224 51295 28647 49611 71693 24482  
05710 50261 49952 82510 88026 15178 03616 08241 63786 29824  
57533 88584 55908 25560 27367 71167 24081 83615 08212 51165  
17686 93461 35183 17998 28043 07755 26917 16581 13397 61061  
47919 02814 95107 44533 50694 97987 48464 53724 83604 71817  
36562 51751 75383 08765 60691 14959 32248 37356 25662 53304  
08550 27169 43504 22631 36891 83193 23998 71021 28663 92228  
25441 86425 80914 01033 64117 37744 50526 30891 05895 26554  
81590 58293 88384 91668 95602 73677 11672 40818 36150 82125  
11651 76866 95916 42547 10833 71889 88997 13144 10451 93441  
68699 21925 20724 92925 44302 74742 28254 94969 12329 83111  
07280 55968 46586 00226 19536 38482 04281 09160 40635 96718  
12193 97503 51955 29728 01389 74662 45905 01489 76400 61523  
93011 70076 29826 07174 44254 93098 38263 12358 67096 01598  
00541 64355 38641 59583 04164 12981 44358 51406 30929 42376  
55810 64152 37623 18295 85822 57239 72771 15561 44533 36407  
15349 55396 44755 74297 46406 07288 30100 44795 89543 35107  
24283 63330 81165 92138 25065 50325 56461 94742 91258 59970  
62048 29295 96235 41526 31207 72137 46379 25321 82655 27187  
87914 50658 28795 10919 50553 77790 04366 39394 01395 51175  
51453 97030 07517 06180 21770 91791 30699 36434 82176 26502  
02704 64017 34345 40949 54573 79656 84533 04480 98357 78259  
00000

**12177/10294/8068 kHz, 15-01, 0700/0710/0720 UTC**

**12154/10158/8023 kHz, 15-01, 1200/1210/1220 UTC**

11166 70202 12369 14079 02659

77649 96425 24635 32847 12411 41039 54762 83928 95715 25481  
58639 22095 32695 02330 08794 33201 43703 03804 93548 69971  
22909 28456 19215 06709 30572 96315 54566 05427 42455 89679  
03541 23092 04792 21732 17098 14670 68272 00189 80174 11662  
99457 78142 34680 80813 93079 09309 24458 92684 33656 49850  
73161 54776 79861 73966 30976 88892 70083 95454 51128 57427  
72617 12396 82114 68265 28914 17190 86590 12988 63349 39101  
22862 18054 57915 11512 49905 13678 15307 81071 41866 50048  
58815 00930 22961 15615 42477 75236 58736 37105 69920 47096  
64603 65964 45329 47178 17602 80919 04985 45141 82319 61333  
02804 71095 86913 11051 48322 99258 10163 37424 20557 11013  
65498 15193 06179 79541 92936 89928 35452 43238 94866 00701  
14347 60068 76620 26681 76302 60079 77764 87358 02034 38240  
05054 51052 80862 54802 02981 31412 11976 35365 22862 76599  
69070 87840 76396 80831 76810 78493 84636 72967 72541 34259  
58299 61844 51692 63507 70369 43032 20308 12464 06926 96702  
03154 99451 07124 31302 80813 94162 28277 52708 54234 34125  
96973 63567 60152 95575 32167 22488 85834 60910 51176 17796  
56566 49898 94529 35515 94343 06865 30604 26284 71183 61009  
25972 00882 05503 02057 92425 09053 75008 38433 46581 81325  
44518 30146 43034 38499 32170 13553 66977 98500 62437 60225  
97228 35290 79409 37067 75617 69502 18757 59904 43640 95516  
61824 57704 32352 74639 20297 89644 16414 49087 24860 82181  
68231 56459 16314 78346 73140 49380 62551 16418 91555 50018  
49868 80186 79032 94138 22015 87990 00181 44409 65445 12700  
97355 77621 64193 49852 00078 75532 72817 76119 86108 74001  
80845 65288 30130 79263 00000

**12177/10294/8068 kHz, 16-01, 0700/0710/0720 UTC. Two messages**

**12154/10158/8023 kHz, 16-01, 1200/1210/1220 UTC. Two messages**

11166 70202 35971 15080 01539

84440 11382 77587 29308 82417 00704 81843 91069 54860 87233  
66818 31381 02653 02605 51788 27172 88165 22221 06517 66000  
17902 97228 54881 82951 20790 14719 19620 03120 54300 97088  
62877 63081 05592 76490 02238 09818 79858 05332 06937 00513  
93070 88735 03931 51666 11302 49916 48524 10967 03823 64400  
39229 50347 02153 24038 81556 03677 82255 16729 30412 97516  
12067 32815 65801 48378 31545 34069 81522 24927 57421 46215  
91526 98556 29852 60927 83650 30791 43148 58235 75395 70932  
27778 85274 51448 62401 75821 52331 87620 81208 27077 32098  
90909 54993 57992 73098 10356 36061 40619 63206 98388 26868  
63776 04201 27350 81380 33601 83288 90877 30754 95689 52549  
44843 06764 46004 52213 67526 61428 22733 38736 43715 06260  
96305 03587 02419 19583 99727 93706 62884 95355 66444 69555  
68595 31938 67905 61697 13955 84226 68026 11862 93324 27617  
36737 09410 27117 07219 89788 59150 44629 70756 47026 41443  
28296 80151 00000

11166 70202 59416 15081 01739

69299 32886 35902 98589 36011 97865 79927 74416 93957 83129  
91223 92397 74460 54146 66442 57340 84337 33941 40406 16869  
04269 13682 82808 63669 93747 46187 09465 10479 59801 58264  
87794 36274 81665 42851 41241 27087 08608 16861 82291 59880  
73079 55709 28806 02937 86387 40418 83332 31181 09074 78266  
80100 79888 13193 82913 29370 85204 78662 24929 13841 84918  
90895 88666 16794 77934 31877 96436 86662 65859 81895 85886  
67712 25174 74100 51547 51523 83390 69081 86480 28967 97663  
41655 84958 47346 59279 97043 92110 02413 72450 58638 11492  
19923 80879 94533 06491 06440 40503 75009 56523 74058 61867  
78173 53952 68744 70576 85921 52661 56971 59235 37422 04238

50353 29337 32312 42675 72942 46534 00779 03564 00901 57720  
82734 88677 29214 43368 83250 11921 45148 03557 96451 87551  
13133 01133 15059 46631 00757 10432 67760 92633 00558 45009  
51603 32152 27315 62808 51589 41640 95499 72207 64670 56128  
06608 87388 70324 90847 01026 06454 14897 31701 54145 10738  
01904 55524 21404 08742 05478 66061 61930 73146 49146 56608  
95502 81171 00000

**12177/10294/8068 kHz, 17-01, 0700/0710/0720 UTC.**

11166 70202 97641 17099 00049 00000 00000 00000 00000

**12177/10294/8068 kHz, 20-01, 0700/0710/0720 UTC.**

11166 70202 15987 17082 02459  
34211 64777 56689 32468 21590 88966 12837 82866 90155 55965  
75208 64337 09124 26760 98324 72394 45700 60510 68579 67023  
14813 81924 34880 94587 32447 66702 29611 61416 27283 18484  
47117 94971 90329 35735 71897 53567 67220 92020 73691 70543  
22888 78078 11650 43869 33273 79168 14767 07076 83788 86092  
30783 42488 79195 63356 60721 22671 94601 22894 21255 91039  
22252 76795 02109 17567 93819 67476 10648 90522 82859 98726  
20875 30192 17136 16075 69005 35495 55491 09909 62810 99466  
08964 39785 96919 54506 10822 03366 91266 33363 65214 98428  
94868 56775 29126 51372 22119 83706 07315 10671 13798 85120  
64929 28701 39969 27229 87487 80389 86960 75141 42904 92113  
95615 52876 25267 79290 43001 20645 85019 16101 84758 55364  
75279 85773 00291 45329 68938 84878 07964 34979 26263 80053  
42517 80707 17667 40624 11871 03634 31342 95523 75513 50294  
20452 87977 11658 97175 69550 26375 65353 60032 84932 54772  
94747 93934 38603 91461 57677 94969 20534 09039 05774 39537  
78923 54421 78286 22192 53119 32238 12789 77950 28913 00039  
14975 00006 70885 48757 54722 88795 11480 66864 80613 93358  
01515 11653 70099 30899 51803 36084 57493 95528 20571 44643  
06993 92094 26366 76631 22901 56048 91147 40345 14243 45283  
43225 46558 55965 14887 34768 14773 13910 10735 53533 50651  
25735 42877 33533 18079 54990 24642 94311 54298 60517 88400  
63518 01542 48376 13929 62477 53606 98468 30309 59425 40813  
83067 77299 20116 01771 19422 37113 10477 15408 23630 72549  
31001 91685 57978 82243 00000

**12177/10294/8068 kHz, 21-01, 0700/0710/0720 UTC. Two messages**

**12154/10158/8023 kHz, 21-01, 1200/1210/1220 UTC. Two messages**

11166 70202 64231 20083 01599  
23566 47254 89688 36115 35912 80303 89557 98719 15926 68720  
40482 32984 62712 66211 76884 15489 56520 35716 96932 29435  
50143 00157 85044 20908 69009 36651 51675 41576 43401 31357  
76331 07494 21247 37163 64737 28712 34904 01392 56109 89373  
20399 55704 41459 82988 12534 85416 78870 32564 64313 20376  
16686 50294 64130 14626 60539 16487 49133 07015 45184 82408  
38233 79958 97025 26751 33167 58528 98332 20397 61074 17062  
89031 79168 57005 85482 67046 09263 09818 72505 73104 75033  
19885 47936 70957 43844 42056 51234 58943 87641 12312 18530  
73842 45964 81547 45289 72950 80065 04922 26815 05309 72827  
60211 43759 08040 54177 93603 84847 88715 56667 16371 23998  
79690 30924 00861 94019 75360 75648 49242 24083 88250 61849  
33435 33146 84904 56011 29679 96526 87489 71866 96165 27802  
52057 05474 67166 43237 59410 33283 62114 00907 79500 77876  
33057 31728 95296 71073 98927 04560 97069 69083 40069 92582  
83019 99402 51455 33128 27187 44129 78027 83157 00000

11166 70202 79451 20084 01839  
98890 67448 43471 43896 43204 28809 42886 72290 83076 24198  
32701 49288 25561 13480 10164 25762 23155 24725 18633 08511  
34914 53594 13238 32341 05657 53051 78210 90461 36654 80601



31813 02860 46270 95231 79791 27353 43981 21246 03317 43007  
66206 21187 92322 60604 47396 45024 60200 39847 24816 47796  
00774 17994 00446 92901 73497 79599 08460 83223 27817 22060  
61706 87268 02625 96653 75623 52515 61754 29743 93038 23155  
51440 53852 58284 04424 90698 03290 14068 40689 30545 54008  
19529 99505 43004 12397 12934 78808 25840 82678 67422 79446  
33944 67614 13279 10223 73328 82191 25123 17655 18643 84990  
97493 57620 40175 56915 57248 51093 51254 81971 86206 91136  
12006 09785 52497 93367 50389 04548 74026 07056 86462 10074  
62513 29061 70800 85657 21534 87781 73013 92419 97000 89319  
81306 34831 03527 43038 99001 87094 75097 08692 48977 59087  
13509 32339 21953 81530 32985 63207 29558 15089 24434 68695  
48128 13091 87761 89720 64153 92535 05698 03575 57331 93098  
57555 86493 82154 28812 96377 93115 33962 62103 37894 95029  
10419 54890 34731 45585 04320 76409 34321 63162 88701 72475  
43930 84181 00000

**12177/10294/8068 kHz, 22-01, 0700/0710/0720 UTC**

**12154/10158/8023 kHz, 22-01, 1200/1210/1220 UTC**

11166 70202 89547 21085 02159  
92963 04012 81810 35743 15981 24367 98879 42379 79738 16645  
30758 69357 28222 05446 98760 89815 35007 73069 61532 07710  
48462 79311 82775 40157 22219 07528 30314 56518 29316 29151  
67439 78900 83492 03857 22491 73778 16030 57563 47589 89418  
81608 05444 02463 18784 91600 12152 24321 92620 98246 06439  
69691 32404 78142 92354 39167 17840 88484 24216 21009 48602  
94504 37534 14523 04992 91535 53085 19171 37216 70138 96311  
00331 37963 97741 99249 67662 77972 15213 77153 27007 09269  
71816 97022 91752 65770 46984 80206 64622 15943 32338 06282  
25798 47195 72411 10385 88333 86693 87489 91185 06797 88298  
27025 71704 50060 40296 27052 80131 74196 73619 70042 42871  
56413 75246 70645 06967 75946 36458 35736 34115 52880 90654  
72223 33449 80802 20398 41050 25277 14251 38396 80815 52962  
96881 72082 49470 85143 41296 06512 57514 75468 96467 65233  
91135 72035 63700 33851 48724 93728 47065 55930 39210 15640  
49241 55975 15649 30755 48705 69129 42500 80099 19215 82305  
20036 68528 77498 16437 14317 08347 70121 04518 66168 57955  
35439 45137 77600 47692 01592 36194 99107 10081 06464 18462  
66281 56654 50566 83721 59183 68548 18753 27114 82899 93053  
31728 48438 92736 63311 13283 32043 12472 83343 84178 60034  
19116 45595 18639 38465 92610 73196 24370 41199 53912 04106  
32060 01141 39887 85213 00000

**12177/10294/8068 kHz, 23-01, 0700/0710/0720 UTC. Two messages**

**12154/10158/8023 kHz, 23-01, 1200/1210/1220 UTC. Two messages**

11166 70202 76549 22086 02039  
87736 51832 89711 14367 80275 79648 33980 59602 15673 51454  
10766 50581 97128 48075 23294 73913 85104 83905 78959 18693  
60697 17521 11145 29350 08636 60439 91765 12119 68353 26208  
45472 49792 26559 87016 01449 04486 49749 30013 43752 13056  
80101 30516 46119 04899 43185 84308 02181 96790 40918 66199  
87036 44467 28228 07045 11099 55632 96829 06416 52168 94076  
14577 23090 76672 29597 93817 10570 85990 13411 87183 89808  
48826 83733 34268 76326 05543 31230 07614 03908 55418 79015  
31460 12076 62736 56889 71671 89514 42675 74499 20309 90642  
12906 23116 23259 67515 21865 60712 24363 84247 89613 60027  
24500 06143 22234 24309 79036 80717 85705 00414 82102 52809  
50181 43965 11112 80947 40617 16250 29981 47193 54689 17530  
74474 77610 33926 86479 68116 15578 99006 20419 42108 15119  
85156 96032 57681 46434 38574 95268 54337 30836 59836 66098  
72400 47258 05207 72828 23319 77537 81798 15652 06172 82655  
97520 24117 93784 27120 51740 54225 36932 93679 77616 43814  
60029 55563 72022 05935 46775 98415 74006 64909 39162 09141

77727 64747 98318 73816 90795 04607 00590 51883 73964 81009  
67320 18791 23110 41466 51762 94286 79422 79221 31547 98537  
78775 23804 80166 03273 76174 07056 15890 70130 06253 09344  
51565 86201 00000

11166 70202 15982 22087 01259  
62868 64961 51786 52289 34688 10973 63189 49928 95429 24585  
16598 22904 85965 85516 62431 57465 83312 82741 39974 97089  
15085 80479 76057 79608 63882 33884 32264 17016 85052 71629  
86612 47631 86280 87582 60656 15316 42423 08737 27916 55434  
44039 31612 64613 92228 03046 44290 28617 77321 63947 76289  
77549 24002 94055 43454 61999 17021 51169 80055 54759 02539  
52115 75280 02040 87958 90613 56313 07597 06295 77904 85172  
85704 24785 04548 61516 43910 02430 46869 48590 81513 26143  
66463 64500 14713 80203 76205 06016 64337 28696 71200 97070  
67122 15625 48110 79163 96456 12399 61306 85839 03534 67351  
89263 68440 14864 37021 09659 65311 47052 03836 06582 31655  
24820 09925 58330 72216 13171 61726 79198 43983 99659 85081  
13708 21101 87701 87123 00000

**12177/10294/8068 kHz, 24-01, 0700/0710/0720 UTC**

11166 70202 85697 24079 00049 00000 00000 00000 00000

**12177/10294/8068 kHz, 27-01, 0700/0710/0720 UTC**

**12154/10158/8023 kHz, 27-01, 1200/1210/1220 UTC**

11166 70202 15648 24088 02199  
71250 17142 59490 52136 27012 20405 11263 54193 82868 75484  
05400 17304 54214 79448 02706 97817 59398 82027 16758 63192  
08637 73917 74144 86982 47701 49000 44351 91972 42343 70183  
87696 83641 14368 93541 94782 41148 65311 30443 15884 58026  
48653 52354 03712 49767 76493 68004 18004 70489 71653 27602  
65353 05882 01113 33797 72744 34589 51737 64055 18210 75261  
34227 34158 67052 61420 26225 57493 87073 11352 90526 79845  
41247 85205 29318 94349 81263 46487 60392 66318 90394 70132  
26276 22613 49116 64351 72198 85255 21916 98431 53852 53971  
88732 53685 60870 67333 69462 39722 66968 97218 14967 43252  
42684 56245 63026 01590 91647 22894 82669 18049 96327 13979  
55315 61429 84190 59185 66179 16763 50200 57334 04362 79524  
96609 19077 95066 10484 75969 25704 12394 93388 48303 58748  
46124 62668 88373 80090 20955 93347 03990 67221 91609 70348  
51281 33385 62266 79378 57887 87258 03738 86590 89990 11885  
66846 99192 24139 67514 15423 24210 09787 48074 27379 67572  
33498 45929 37272 40729 20747 04639 18828 66960 36254 64381  
30825 04593 68794 29749 74808 29290 11414 14586 38048 42620  
73000 43574 20198 99073 82130 15238 67074 68727 69146 56063  
60009 77741 37385 20418 34200 93878 59518 15963 24506 49223  
59912 59235 62121 17303 68971 91095 70566 86786 60384 06729  
34431 98952 07227 79879 39307 41120 17839 88217 00000

**12177/10294/8068 kHz, 28-01, 0700/0710/0720 UTC. Two messages**

**12154/10158/8023 kHz, 28-01, 1200/1210/1220 UTC. Two messages**

11166 70202 64521 27089 01859  
12680 23062 44395 60296 21647 40968 42132 04377 90803 89409  
92068 64862 08092 54365 30417 29434 20006 83710 48582 90248  
37981 62920 90420 23982 07384 03761 14439 96583 00033 50651  
44376 09929 16195 34398 56601 32548 06993 27972 77757 81627  
53157 84025 91109 48467 61067 58842 75014 84582 62010 52387  
21953 90641 25603 19169 11575 75414 23313 29587 36180 76937  
03013 86450 02079 63067 60503 26366 55270 53620 18958 60675  
04873 31275 52201 35626 42750 33440 12780 16475 82755 42264  
50760 25201 68060 14970 34175 86517 19967 21723 07079 61878  
26675 83189 46130 76155 95427 25008 01650 66679 16464 91322  
34095 09332 12237 84604 81867 01377 70314 23920 21420 05719

83413 38842 05579 86269 44997 41201 91029 89122 73883 41850  
90894 49207 66282 04635 13356 27129 98726 54769 72238 05863  
30308 83777 80515 02004 77669 18218 62652 71255 61195 44357  
46741 12840 45822 05996 22354 02526 24920 17614 75059 08956  
20677 60050 33538 72958 99424 50880 90225 54543 25345 06687  
81435 77253 00989 39420 37894 24569 68052 54024 41614 68052  
66844 39515 50058 31919 77881 70713 73532 23713 94046 62799  
16723 85799 96760 89183 00000

11166 70202 91457 27090 01699  
85559 83374 58591 34838 89203 13116 50368 36330 45915 24091  
48072 67801 62081 19192 96021 75146 63638 85412 90683 23186  
62163 93009 20235 12260 31596 47893 70250 25390 37802 08169  
50182 79444 88147 00785 20335 78747 93289 99211 24008 94563  
58352 48091 54510 18900 45691 45803 11721 66062 76428 20873  
27885 20407 62934 63164 67344 53711 89468 95801 29873 60621  
83141 98744 12317 85596 42399 19967 08223 39800 15218 35160  
50138 31364 44189 41926 24284 57474 20688 99365 12268 31710  
15313 49017 39539 45067 76780 78088 35273 84123 16463 10903  
33367 54758 20764 39508 69230 84881 58505 29384 52075 04604  
75532 61184 17370 27285 93697 94451 89168 79900 56443 64240  
06977 56157 88142 46590 96873 90806 59402 53784 91538 78582  
75506 45331 28913 86207 30198 65601 84142 30900 91973 44064  
14527 23830 15090 19070 22127 01944 92460 71084 63749 96613  
92642 76352 62975 12538 48078 16900 03930 15328 86812 07820  
11471 51236 24839 27788 47504 47436 61285 63730 78087 66316  
43620 05598 91025 12213 95059 52162 68644 90167 00000

**12177/10294/8068 kHz, 29-01, 0700/0710/0720 UTC**

**12154/10158/8023 kHz, 29-01, 1200/1210/1220 UTC**

11166 70202 65341 28091 02559  
61002 74970 35535 24616 89517 77553 90565 20793 27776 16947  
34208 03149 14075 90092 53395 92450 57794 46592 84685 89246  
25420 12604 02495 58749 83704 00380 35540 56824 48390 45638  
22452 51795 11938 39957 42478 21719 48697 50371 82230 31851  
20953 43363 24395 21966 34294 55440 69359 58232 15729 77481  
25682 29324 12997 45034 30355 91457 38506 51760 84779 92046  
06344 28220 17408 26647 35780 53164 08981 08906 19721 89540  
41302 58168 81540 62393 55486 34465 68723 20842 30608 75537  
56768 51336 18713 15607 61776 34361 97101 90567 85174 61789  
23843 59298 38999 57065 07447 95765 25191 65410 26632 31622  
67323 06233 61129 53981 18217 04934 19462 88046 91862 46294  
74630 19305 93107 16631 43648 34948 43525 26913 71861 89220  
26919 34019 07992 22387 02887 02327 80839 87995 61897 72824  
13584 68129 20301 31929 36620 81336 78723 97193 84864 12922  
92272 62106 90475 22287 26004 67151 06922 07014 94071 89326  
25326 28370 06013 67314 69049 27930 68600 04471 77416 89994  
16688 16851 14552 29498 71512 18423 64247 10097 49864 60693  
96798 22116 72578 68902 18758 75045 45776 41997 41528 84281  
13304 08553 29749 56784 03793 55851 15402 05360 20795 74277  
88571 46232 49413 84243 00812 59612 77878 37822 42045 17935  
57507 12267 76932 11467 49467 37617 51650 25959 31808 25579  
07026 52041 65175 91855 58947 31042 40656 89121 31999 66919  
58190 92836 57261 58992 08988 07072 70203 35169 60384 82546  
69612 90336 66580 64059 23495 59623 53688 09497 32892 81215  
52544 47623 89536 28398 77701 66809 88296 15537 76062 51926  
80350 07664 93565 91253 00000

**12177/10294/8068 kHz, 30-01, 0700/0710/0720 UTC. Two messages**

**12154/10158/8023 kHz, 30-01, 1200/1210/1220 UTC. Two messages**

11166 70202 85319 29092 02139  
47199 17128 07684 44643 73395 77296 24278 55478 12513 25620  
69730 02610 50922 48528 24022 00072 04477 28674 92385 08863  
27362 57963 14208 00221 22227 56935 03681 77589 43763 61422  
26862 80711 12932 62442 44864 20296 84024 10239 77831 16677  
31743 18431 69418 40926 50484 29190 56431 81838 83018 25390  
73340 87230 20755 00675 46342 53001 42773 23363 56658 58378  
85810 55147 77760 70794 62397 10508 16210 68831 69321 67794  
10796 56665 53613 67897 69664 68456 28239 61462 50120 86117  
54687 90573 10795 18894 34636 15844 90863 18207 77891 24858  
96002 26177 38785 82899 95767 81283 38212 11899 62091 29593  
13504 08543 03578 14982 63316 37481 75288 46808 79732 60569  
68699 68462 84754 88080 11523 75229 13377 62833 32086 54909  
10430 13164 67941 49624 33387 35682 23400 62264 78303 93750  
05689 55986 71099 42630 94398 20227 91356 17212 23927 01653  
20821 43294 83592 23491 33804 58327 65112 41673 71662 52569  
12138 11239 68551 66590 51515 61425 20628 06061 10988 02886  
15909 59762 52995 15480 66950 31762 79289 90065 13552 23677  
86025 22725 87672 27984 74035 84881 57730 18295 43964 17725  
94491 47539 30955 24393 25729 90007 58578 58342 71836 88164  
16673 31356 79583 90195 92818 89604 96209 89207 12097 31223  
51034 00029 64843 63820 36771 34550 27076 25376 07743 61524  
03289 92211 00000

11166 70202 32671 29093 02199

18034 69352 53669 46903 61473 52134 98517 40973 56646 30531  
95261 08951 20070 76564 26157 47834 40325 26080 10155 25985  
02266 93561 45717 40962 94925 05397 45916 38774 26548 68797  
51764 24252 95187 18542 34691 17218 88312 08745 24128 34146  
09850 41829 21128 99996 58107 51892 83949 19912 03018 84657  
96562 65468 36128 41197 55991 55161 91784 77600 39447 33820  
62953 77805 37188 80629 60092 41741 62028 00464 86543 56008  
71455 78194 28853 39255 63277 00687 85479 79452 30742 76150  
82313 05251 88069 05547 48456 58604 02333 85732 50678 60853  
92615 49026 10023 89455 82406 68891 48966 07541 16140 86422  
42580 13491 75840 37314 72139 02729 58808 84006 04614 58893  
02264 82698 46462 16608 65914 39910 45195 63008 08362 38278  
37120 70230 18300 36284 64719 76051 86430 71592 12091 54845  
29043 22691 31898 46075 99184 08515 62256 32481 46381 30754  
57002 85172 10809 88519 77773 17789 62896 20059 21352 16944  
24262 51214 80689 41120 30941 55299 63063 05207 24835 54102  
13809 92870 84319 14675 19037 63951 29953 21618 85812 49058  
66216 29541 23199 48560 45231 25389 72623 78165 63379 55308  
60997 28263 26779 95767 75024 29223 46542 73589 80142 39848  
49754 64602 32525 01145 17114 25596 57597 22627 83170 39257  
93478 93315 60100 76790 22821 34641 70948 07893 41449 37424  
03287 12784 37263 50124 19221 75980 77830 93217 00000

**12177/10294/8068 kHz, 31-01, 0700/0710/0720 UTC.**

11166 70202 54781 31051 00049 00000 00000 00000 00000

Link 80214

**12186/10243/8175 kHz, 02-01, 1330/1340/1350 UTC**

11166 80214 15637 02073 00049 00000 00000 00000 00000

**12186/10243/8175 kHz, 09-01, 1330/1340/1350 UTC**

11166 80214 61427 19054 00049 00000 00000 00000 00000

**12186/10243/8175 kHz, 16-01, 1330/1340/1350 UTC**  
11166 80214 61427 16056 00049 00000 00000 00000 00000

**12186/10243/8175 kHz, 23-01, 1330/1340/1350 UTC**  
11166 80214 15380 23001 00049 00000 00000 00000 00000

**12186/10243/8175 kHz, 30-01, 1330/1340/1350 UTC**  
11166 80214 85217 30019 00049 00000 00000 00000 00000

X06 - Mazielka

**X06 logs**

14650 kHz, 15-01, 1108 UTC	MFA Moscow clg 215346: Russian Consulate General Mumbai
12200 kHz, 17-01, 0705 UTC	MFA Moscow clg 241563: Russian Consulate General Karachi
14970 kHz, 28-01, 1025 ITC	MFA Moscow clg 216354: Russian Consulate General Chennai

**X06b logs**

9165 kHz, 07-01, 1522 UTC	Sequence 111666 before XPA2
9165 kHz, 07-01, 1524 UTC	Sequence 111666 before XPA2
9165 kHz, 07-01, 1527 UTC	Sequence 111666 before XPA2
9165 kHz, 07-01, 1538 UTC	Sequence 111666 before XPA2
8065 kHz, 07-01, 1523 UTC	Sequence 111666 before XPA2
8065 kHz, 07-01, 1526 UTC	Sequence 111666 before XPA2
8065 kHz, 07-01, 1536 UTC	Sequence 111666 before XPA2
10465 kHz, 07-01, 1523 UTC	Sequence 111666 before XPA2
10465 kHz, 07-01, 1528 UTC	Sequence 111666 before XPA2
10465 kHz, 07-01, 1540 UTC	Sequence 111666 before XPA2
12169 kHz, 18-01, 1014 UTC	Sequence 111666 before XPB1
10323 kHz, 25-01, 1206 UTC	Sequence: 111666 before E07
9123 kHz, 25-01, 1209 UTC	Sequence: 111666 before E07

**XPA1**

**12157/13462/14374 kHz, 02-01, 0810/0830/0850 UTC**  
265 265 265 000  
03106 00001 00000 34653

**12157/13462/14374 kHz, 07-01, 0810/0830/0850 UTC**  
The 0830 transmission stopped during sync sequence  
265 265 265 000  
02448 00001 00000 37256

**12157/13462/14374 kHz, 09-01, 0810/0830/0850 UTC**  
265 265 265 000  
07055 00001 00000 33664

**12157/13462/14374 kHz, 14-01/16-01, 0810/0830/0850 UTC**  
265 265 265 1 265 265 265 1 265 265 265 1  
05815 00104 56400 25097 91277 46963 38592 99744 29692 74126  
62350 23617 78566 46376 78059 57045 06599 42317 98537 84826  
29514 05072 31322 40591 51627 90436 00568 30296 22570 91246  
69289 92366 60562 77597 68974 86715 05118 99126 39726 33881  
52934 03579 52632 47428 23188 23863 74521 55693 80694 47667  
43335 80957 81657 47988 29013 23415 63674 56251 46886 07977  
79094 52443 92851 34379 15925 26366 23046 82389 53122 84484  
83236 24322 74855 30512 25678 65832 79429 52512 84390 00764  
36086 80644 84345 41649 91586 49683 98557 77418 80270 77458  
40972 75398 74205 05556 96417 33686 16070 71379 29485 44517  
42057 64147 28855 36655 41240 13754 13745

**12157/13462/14374 kHz, 21-01, 0810/0830/0850 UTC**  
265 265 265 000  
02702 00001 00000 35652

**12157/13462/14374 kHz, 23-01, 0810/0830/0850 UTC**  
265 265 265 000  
03861 00001 00000 35661

**12157/13462/14374 kHz, 28-01, 0810/0830/0850 UTC**  
265 265 265 000  
01424 00001 00000 35253

**12157/13462/14374 kHz, 30-01, 0810/0830/0850 UTC**  
265 265 265 000  
07437 00001 00000 36662

## **XPA2**

**14977/13971/13371 kHz, 01-01, 9010/0930/0950 UTC**  
08630 00001 00000 34653

**14794/13994/12194 kHz, 02-01, 0910/0930/0950 UTC**  
03978 00001 00000 41662

**10465/9165/8065 kHz, 02-01, 1600/1620/1640 UTC**  
02906 00001 00000 40652

**10726/11426/12226 kHz, 03-01, 1200/1220/1240 UTC**  
03617 00001 00000 37654

**14794/13994/12194 kHz, 04-01, 0910/0930/0950 UTC**  
05960 00001 00000 35663

**9317/8117/7517 kHz, 04-01, 1600/1620/1640 UTC**  
04042 00001 00000 32260

**11493/13393/13993 kHz, 06-01, 0800/0820/0840 UTC**  
03914 00001 00000 37654

**14977/13971/13371 kHz, 06-01, 9010/0930/0950 UTC**  
02612 00001 00000 35253

**9317/8117/7517 kHz, 06-01, 1600/1620/1640 UTC**  
07423 00001 00000 34661

**10921/12221/13521 kHz, 07-01, 1200/1220/1240 UTC**  
04787 00001 00000 40264

**10465/9165/8065 kHz, 07-01, 1600/1620/1640 UTC**  
05790 00001 00000 34666

**11493/13393/13993 kHz, 08-01, 0800/0820/0840 UTC**  
01621 00001 00000 34653

**14977/13971/13371 kHz, 08-01, 9010/0930/0950 UTC**  
09889 00001 00000 41671

**10726/11426/12226 kHz, 08-01, 1200/1220/1240 UTC**  
02505 00001 00000 36252

**10465/9165/8065 kHz, 09-01, 1600/1620/1640 UTC**

09917 00001 00000 41256

**10726/11426/12226 kHz, 10-01, 1200/1220/1240 UTC**

09443 00036 72943 02222 00275 94587 55257 59028 11557 41927  
71495 36995 13495 47021 18117 17736 14472 47185 62952 06958  
48116 67599 28913 76056 18455 49497 04507 23007 53042 39784  
64040 11874 12410 94682 18806 46383 32752 54713 00173

**14794/13994/12194 kHz, 11-01, 0910/0930/0950 UTC**

09266 00001 00000 35267

**9317/8117/7517 kHz, 11-01, 1600/1620/1640 UTC**

01583 00001 00000 35261

**11493/13393/13993 kHz, 13-01/15-01/20-01/22-01, 0800/0820/0840 UTC**

06889 00118 82970 48167 28485 79415 99088 32294 51168 62614  
18896 76732 01931 95797 11225 64941 24489 14886 97795 31092  
17717 89330 39333 12584 55281 34943 23390 89806 60046 20277  
14151 82196 15125 46013 64915 01399 71991 20423 82729 17914  
39358 72566 09077 45646 09379 58114 51730 83235 17728 06621  
27211 34171 85183 01045 64888 03659 93035 96156 45568 58478  
39953 51593 59072 68171 52926 08611 03394 42942 03422 30873  
43434 04212 09735 26240 47319 48221 88462 59803 56055 96964  
76269 23672 43442 76800 61120 75399 40072 22424 57883 61498  
33137 93686 55837 11946 62772 29592 19639 91226 42140 40450  
45144 67444 74125 78761 35980 17298 69157 53298 92127 49837  
95277 64404 98782 43334 90087 79503 38234 09443 82701 83986  
30323

**14977/13971/13371 kHz, 13-01/15-01, 9010/0930/0950 UTC**

07268 00120 25970 06054 85399 32388 35321 96622 29305 96296  
54963 85801 51646 82792 19743 32404 44561 86885 90630 78144  
17533 18943 66582 02685 31095 47492 79223 09454 01709 15984  
79782 64430 54799 65696 90040 15728 01510 40523 76085 15353  
04484 77121 06218 64713 43080 86131 41814 52506 01301 01187  
68085 68760 62041 06402 34199 46609 91033 66455 73083 47970  
85094 38939 68938 97557 64823 93674 41857 40206 25118 51087  
39405 33627 27984 83006 62875 96918 00140 65734 36508 12855  
43705 04469 64208 31356 27134 36212 95300 28931 19152 08531  
66760 22329 53381 84377 86775 24018 93032 63375 21958 52680  
52382 25848 03239 19933 70835 85435 61851 01520 92626 13982  
08476 12559 18295 73290 32261 52359 99216 06835 35531 10633  
07547 61405 65666

**10921/12221/13521 kHz, 14-01/19-01/26-01, 1200/1220/1240 UTC**

08012 00156 66644 28592 84746 39507 98184 34841 58811 91088  
83179 20517 16743 69813 48321 12852 61517 70827 84462 15803  
50083 08368 28618 26230 30922 88241 23008 43845 03307 78181  
96195 85984 05768 64998 32382 03953 88619 11748 78712 90252  
68698 53617 12705 22658 28334 74915 79771 61329 70699 99740  
57932 78798 45805 67040 67742 07048 97791 59824 39661 94559  
86157 65954 36320 36082 85174 93336 78336 87858 15057 26407  
23137 84504 95901 73855 31880 66788 97459 46460 65753 40888  
04360 92472 37670 59262 43105 30930 92753 22457 90679 59298  
31585 73999 02164 22010 87839 23669 62843 50236 83288 47736  
21348 51244 99968 16186 09749 33012 14247 62229 75936 16346  
02967 55418 61126 91669 33752 17061 76670 64300 74810 75806  
97504 41440 93655 03015 63348 28957 43934 64575 21952 77022  
81305 70872 64031 45802 60786 41850 88979 88989 61040 51493  
56717 08627 56250 57602 52222 32425 85011 52683 28895 75209  
52630 09142 78923 43643 48369 98996 73472 27762 10203

**10465/9165/8065 kHz, 14-01/16-01, 1600/1620/1640 UTC**

00170 00204 01429 58982 33170 09872 77318 41629 64637 93913  
96641 89644 77795 94292 14712 36886 26380 51282 06482 68788  
38250 26978 38485 66035 02291 81895 82050 73770 75020 53814  
23511 39586 42105 63520 13718 60087 02872 13726 45392 46054  
85953 80440 37293 42696 52912 45619 93059 34515 38289 79373  
44841 60543 05621 52184 91333 83037 23267 12891 02813 44483  
08992 85838 74652 20162 05160 98229 51183 40257 37174 44369  
93648 93851 94777 70098 38446 73829 20544 64654 73538 77760  
97092 69150 40543 26169 19582 40052 54562 09039 18603 31623  
45943 40968 81969 15072 89744 42467 06497 71963 31330 42223  
41391 25640 51268 51871 17909 05944 66605 65592 68016 02523  
66031 39750 80205 45937 42310 48251 70491 28241 38703 24715  
06374 83154 08382 31290 49792 63415 80309 77047 30737 13414  
72044 85130 04260 74917 44338 80068 77001 85017 65409 98212  
21304 82986 81666 91483 98365 08657 04596 31388 99038 31050  
29138 91609 84750 65255 49472 91897 67614 33851 56443 37647  
12783 20523 38938 43542 56763 85389 88163 60926 10960 52642  
27237 43121 84542 84536 59765 09383 76728 99296 58585 30297  
12878 05240 43363 08070 87037 95991 75545 22740 00197 48835  
09816 75772 32630 68388 60549 75960 71948 19366 83348 83239  
47220 13127 02922 08190 63471 29787 47417

**10726/11426/12226 kHz, 15-01/17-01, 1200/1220/1240 UTC**

00164 00216 56655 76775 55818 85353 53562 83011 71026 73470  
87830 52471 41518 62465 26951 92025 70383 39314 10236 85184  
85766 92270 95243 21732 75857 71459 92271 47513 17406 68838  
46614 71357 77124 12596 38218 45680 38705 28192 90014 85592  
61637 61988 38948 60638 77856 54427 88289 13593 95575 63959  
24649 61297 81566 30286 92752 89361 07720 23277 93343 42571  
88717 64213 44429 80929 55336 04631 58914 21494 14367 24308  
31440 72277 37858 53412 69819 51169 11291 99553 54545 40844  
56125 92089 42872 36512 46491 85162 18574 81177 77217 71769  
97734 12337 15594 13358 12216 59979 56802 81877 07902 97856  
28174 65827 10563 23330 04396 24231 25081 93907 88979 55751  
07689 68732 77367 58278 39631 51209 55805 70536 72907 22705  
11313 14815 00727 72023 73744 23770 44562 45972 15578 21166  
15706 33222 73090 24613 17849 88299 44045 51806 14066 77290  
94246 07573 15797 29273 14772 04413 33071 59994 61230 23333  
45092 71501 70283 89319 41504 75588 97093 89205 20908 19457  
57714 82306 37371 25728 88285 22525 77880 53623 35911 28818  
92118 44494 39795 86692 48261 00309 70862 00094 86008 39408  
48172 71455 59901 30739 63328 21338 37369 28223 26967 02273  
03166 88739 89302 24403 72961 40715 74029 72994 72960 73777  
88838 11666 45950 26211 06469 46948 68871 00526 56312 88886  
95939 33047 58667 81445 00920 57278 79661 88836 10177

**14794/13994/12194 kHz, 16-01/18-01, 0910/0930/0950 UTC**

08287 00120 87213 18980 00033 51018 56157 70433 74126 99364  
45526 55794 64486 18050 38739 81805 59471 71759 35556 15678  
92858 66440 51051 70038 31815 98393 23106 02029 00383 83352  
68762 71769 05065 26078 01027 51534 50744 72955 00797 46927  
71631 48914 59254 28016 84748 24775 51267 67417 49502 47917  
61866 26710 54563 84525 35828 25523 95495 96746 64444 45335  
66136 17529 13079 92357 09145 45974 77924 04745 86674 63777  
73319 39757 23663 98985 63867 69145 81797 93238 53640 10089  
54353 77975 39335 24945 85692 58132 36491 60851 35709 08146  
18180 88537 07647 19332 85289 54149 43039 77425 24094 95800  
28860 39781 30595 43014 80248 55125 54161 15381 92196 91504  
29471 06115 89515 86793 15640 51994 99427 42405 12857 91924  
40689 00440 36011



**9317/8117/7517 kHz, 18-01, 1600/1620/1640 UTC**

08849 00162 10555 87500 86304 28130 78759 37225 03928 80207  
86135 79471 80412 34028 88498 90937 95517 72052 21286 97628  
64342 21448 49127 73951 44952 60923 99343 32629 32840 72708  
36219 75723 01734 71595 60451 35683 70759 99960 10859 27291  
57893 23600 48977 57948 08743 60129 99911 72693 17481 21547  
75677 17167 85261 41564 86010 02531 15128 76628 65437 75751  
77227 46912 59796 42659 71962 84294 60556 37515 81209 88947  
67265 18767 18393 92640 72427 22814 20893 19029 99051 21172  
23389 56076 33739 87664 18831 18098 33550 76621 34384 79505  
61354 87354 95157 89031 75292 24387 25458 36171 19221 67529  
59932 16548 98986 07135 78694 10253 61878 64972 61581 28983  
73009 20039 36929 02331 18175 00591 96221 39811 48049 88268  
90054 67077 05776 94253 06385 34926 50342 10893 48443 98438  
13849 36396 42615 83708 40740 47141 27941 93708 87086 92411  
06519 35934 31462 95359 98846 45594 78109 09173 49323 64171  
65456 56888 00785 84039 87047 38145 40666 74737 91358 68226  
94236 00619 73502 98613 21634

**14977/13971/13371 kHz, 20-01/22-01/27-01/29-01, 9010/0930/0950 UTC**

07297 00086 68433 44648 70471 92597 77727 46469 88148 27595  
33581 31672 59226 17889 93093 56337 50708 85931 20792 04383  
05335 54167 69372 36821 84015 55199 10614 39914 07257 91467  
82489 42116 93528 87015 86108 27300 28232 09203 32064 90692  
29593 87233 30163 60717 56062 39500 56896 22761 69211 75912  
95093 07723 67653 19533 62549 35059 42431 22997 44927 98922  
418344 06749 9475 97292 17616 36602 91320 81405 61543 54918  
16831 14360 24607 42474 79579 64199 99724 84184 08834 24932  
18770 62348 30685 22961 11166 03571 94681 37682 50112

**9317/8117/7517 kHz, 20-01, 1600/1620/1640 UTC**

07832 00001 00000 36262

**10921/12221/13521 kHz, 21-01/26-01, 1200/1220/1240 UTC**

06612 00112 60693 99862 77590 87808 71763 14683 72047 46557  
76975 91990 87246 75122 80763 73453 22779 99290 24239 98562  
80670 12760 66854 88986 19208 79567 43684 52235 97713 87569  
62989 63811 86022 92220 42427 97904 31254 75521 50994 79931  
75267 04624 77345 78921 27028 06401 38553 04046 68707 52397  
74043 04131 96359 56284 03004 69097 58687 71306 62397 59394  
36011 20784 16620 42021 86681 92793 89132 12693 12199 50175  
36375 57725 49100 36916 82013 08985 21779 17804 78302 28545  
49823 38553 69846 91582 25045 32665 13921 03280 79545 68795  
05735 48037 63972 39219 60000 89189 34764 53460 02858 21828  
46416 14679 27174 67553 63896 51523 01881 67569 99440 23143  
14190 22319 02863 21034 45673

**10465/9165/8065 kHz, 21-01, 1600/1620/1640 UTC**

02558 00001 00000 37657

**10726/11426/12226 kHz, 22-01/24-01, 1200/1220/1240 UTC**

09333 00188 48433 88437 61057 41879 73123 60500 61322 62665  
23076 09071 38956 47293 20199 18180 78761 88231 82625 01039  
30494 47752 37615 77825 72344 27318 79811 56409 29694 32700  
43456 11043 27861 89110 92758 58881 71904 26241 92342 11819  
58737 32855 17064 50555 83061 71482 67593 37270 09861 38484  
79214 37320 33020 67297 15333 68025 26687 56033 67685 22671  
36934 50996 20205 63435 57430 66946 78366 37835 65263 84264  
05803 98573 71343 41574 94339 09203 73129 24426 38084 22281  
79966 61633 91943 04060 18962 21954 01420 52229 19123 73018  
23445 51579 77446 14080 83647 34260 01340 50592 99137 58824  
00478 12897 98870 76549 76609 52758 02817 23038 64272 32588  
11787 85990 62722 76853 15367 07155 59229 75352 64999 41080

90524 27166 75833 29464 94029 22882 60672 07573 09848 34221  
56298 19909 10263 73758 11108 72400 07766 27316 81648 56170  
28531 38168 35479 50996 49474 10197 16780 40584 92231 66173  
78178 36869 73174 19509 93795 94153 76869 51544 53864 67555  
26678 96511 39115 05295 57728 73348 17015 01960 43053 39742  
29763 42666 84162 35460 17153 37851 38080 20753 55647 57270  
99826 57982 76319 40168 54781 58178 08237 27384 07995 90392  
02216

**14794/13994/12194 kHz, 23-01/25-01, 0910/0930/0950 UTC**

00112 00066 93827 48652 27053 77288 87884 04496 21072 05671  
07245 87287 12927 90860 93158 92887 75210 99461 21089 46098  
81414 73742 53159 24592 48854 74659 87408 85760 92317 43695  
18898 58594 17265 69592 11108 56254 36463 37498 25153 08232  
94311 21545 09101 03156 79005 29309 22011 90424 04893 28945  
70601 46967 95130 12033 34711 94648 74206 10179 40092 50696  
83078 87800 97079 27527 20351 99502 16251 97426 74364

**10465/9165/8065 kHz, 23-01, 1600/1620/1640 UTC**

04313 00001 00000 34255

**9317/8117/7517 kHz, 25-01, 1600/1620/1640 UTC**

03709 00001 00000 41253

**11493/13393/13993 kHz, 27-01/29-01, 0800/0820/0840 UTC**

00173 00100 18237 71771 53072 78510 12011 06501 08610 68220  
23355 68274 85127 82598 79587 64799 93171 10494 43194 54012  
45977 18699 61601 26649 18655 25105 10515 18227 38947 92661  
45573 64972 73166 74554 63956 93179 87863 83625 77887 08722  
16813 84428 60111 18728 29701 17553 52043 88670 67843 66621  
28670 04566 45709 49390 08272 49871 27300 29423 11548 69861  
17655 30377 63626 14213 41388 33454 70104 72683 59727 90770  
85555 21595 95695 31431 54880 55700 63504 28454 81915 10014  
02183 40759 61514 65500 16424 83051 51944 73508 98103 50750  
88813 83658 07917 44806 67347 57118 84566 19325 71661 54072  
64560 79044 76511

**10921/12221/13521 kHz, 28-01, 1200/1220/1240 UTC**

00505 00082 09868 96067 08673 10526 61449 50851 07020 88983  
54952 97009 90666 72655 15718 59105 46044 64702 53384 93236  
57657 17942 93037 87945 53051 72752 41468 60080 41237 08457  
87026 91921 71571 46172 81217 83890 18200 36137 01660 35671  
51705 35531 23600 03526 72471 74717 11643 86765 31516 69054  
48139 64515 40948 53727 64993 07668 43900 58671 90861 88140  
58105 58694 37189 28015 59666 83088 56739 62408 97941 09035  
57828 00980 36624 98967 08896 80978 99604 18980 22354 04694  
17876 95515 63459 48482 60467

**10465/9165/8065 kHz, 28-01/30-01, 1600/1620/1640 UTC**

00190 00222 89574 59414 19621 64294 58118 68886 60839 39719  
34058 66366 51089 28120 02816 55764 76604 99167 06168 68217  
95935 57812 91395 21421 22281 15618 96257 11897 90174 32378  
11658 24411 37932 63306 80696 00329 12347 17130 54101 03243  
67905 54696 03414 46159 97501 72348 43476 13186 06792 85548  
97011 10426 02641 53424 43046 23993 29225 61568 43689 63550  
06803 30822 14447 64611 90453 84582 13083 78001 23065 93717  
95096 94530 38154 74951 11632 62312 11055 93467 59761 65593  
47964 72220 99191 05873 84213 60016 56621 22470 71086 89994  
14633 38940 65792 62937 71444 06500 43570 87134 73413 17584  
13070 19247 83109 96601 46386 44536 15250 19593 41573 58862  
94651 45622 03959 28639 29287 93946 52505 85953 13262 91730  
54572 02154 95643 32270 93100 38870 36406 25033 96818 05668  
96498 81375 57031 17923 83742 19631 51200 60332 11788 48047

38317 50787 47388 32917 96964 95639 30655 65959 62222 15266  
42271 84815 59025 62385 62908 79690 21260 17686 75829 94187  
65997 00757 63169 40282 63180 29044 98308 63725 05823 79694  
79478 82598 53467 85700 41034 14268 13981 22416 05462 97649  
43732 02992 54876 52862 22241 08148 83728 42876 30145 57513  
91689 46807 20183 35859 62146 82961 86926 11770 97126 18798  
50805 72488 83790 30199 99331 44652 68910 76583 20798 83865  
99089 24936 03096 28860 83513 82896 55735 96118 45569 61530  
94523 15694 69886 64931 47136

**10726/11426/12226 kHz, 29-01/31-01, 1200/1220/1240 UTC**

08728 00064 49728 87411 80754 74003 49055 50147 07821 23545  
06142 42226 81687 93677 18372 76922 07138 26031 86399 71328  
30900 37912 44647 94503 94845 27029 20654 01833 21065 68957  
32502 59172 71664 38123 91076 91742 24071 47991 98197 60939  
14086 54705 56592 57262 30484 01388 14980 04277 89515 94805  
62455 34995 80778 14263 91684 82305 85662 92243 60889 38982  
40960 99081 87626 01523 35642 57115 61365

**14794/13994/12194 kHz, 30-01, 0910/0930/0950 UTC**

07716 00001 00000 37660

***XPB1***

14769, 14369, 13969, 13369, 12169, 11169 kHz on 04-01 at 1100, 1110, 1120, 1130, 1140, 1150 UTC  
14769, 14369, 13969, 13369, 12169, 11169 kHz on 06-01 at 1100, 1110, 1120, 1130, 1140, 1150 UTC  
14769, 14369, 13969, 13369, 12169, 11169 kHz on 11-01 at 1100, 1110, 1120, 1130, 1140, 1150 UTC  
14769, 14369, 13969, 13369, 12169, 11169 kHz on 13-01 at 1100, 1110, 1120, 1130, 1140, 1150 UTC  
14769, 14369, 13969, 13369, 12169, 11169 kHz on 18-01 at 1100, 1110, 1120, 1130, 1140, 1150 UTC  
14769, 14369, 13969, 13369, 12169, 11169 kHz on 20-01 at 1100, 1110, 1120, 1130, 1140, 1150 UTC  
14769, 14369, 13969, 13369, 12169, 11169 kHz on 25-01 at 1100, 1110, 1120, 1130, 1140, 1150 UTC  
14769, 14369, 13969, 13369, 12169, 11169 kHz on 27-01 at 1100, 1110, 1120, 1130, 1140, 1150 UTC

7771, 7471, 6771, 5771, 5171, 4771 kHz on 05-01 at 2000, 2010, 2020, 2030, 2040, 2050 kHz  
7771, 7471, 6771, 5771, 5171, 4771 kHz on 07-01 at 2000, 2010, 2020, 2030, 2040, 2050 kHz  
7771, 7471, 6771, 5771, 5171, 4771 kHz on 12-01 at 2000, 2010, 2020, 2030, 2040, 2050 kHz  
7771, 7471, 6771, 5771, 5171, 4771 kHz on 14-01 at 2000, 2010, 2020, 2030, 2040, 2050 kHz  
7771, 7471, 6771, 5771, 5171, 4771 kHz on 19-01 at 2000, 2010, 2020, 2030, 2040, 2050 kHz  
7771, 7471, 6771, 5771, 5171, 4771 kHz on 21-01 at 2000, 2010, 2020, 2030, 2040, 2050 kHz  
7771, 7471, 6771, 5771, 5171, 4771 kHz on 26-01 at 2000, 2010, 2020, 2030, 2040, 2050 kHz  
7771, 7471, 6771, 5771, 5171, 4771 kHz on 28-01 at 2000, 2010, 2020, 2030, 2040, 2050 kHz

***Polish intelligence***

**E11 family digital transmission modes.**

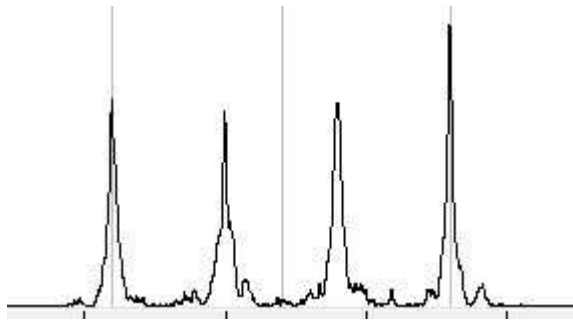
**FSK transmissions**

F03a FSK-2 100Bd/200Hz cf + 600Hz  
F03b FSK-2 200Bd/400Hz  
F03c FSK-2 400Bd/960Hz  
F03d FSK-2 200Bd/400Hz  
F03e FSK-2 200Bd/800Hz  
F03f FSK-2 400Bd/800Hz ACF 992  
F03g FSK-4 100Bd/200Hz  
F03h FSK-4 200Bd/400Hz  
F03i FSK-2 100Bd/800Hz  
F03j FSK-4 100Bd/400Hz  
F03k FSK-2 400Bd/800Hz ACF 896  
F03l FSK-2 100Bd/200Hz cf +700Hz

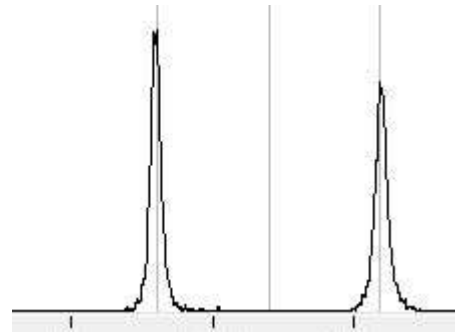
**PSK transmissions**

P03a BPSK 62.5Bd  
P03b QPSK 62.5Bd  
P03c BPSK 125Bd  
P03d QPSK 125Bd  
P03e QPSK 100Bd  
P03f QPSK 200Bd  
P03g BPSK 50Bd  
P03h BPSK 100Bd  
P03i BPSK 62.5Bd

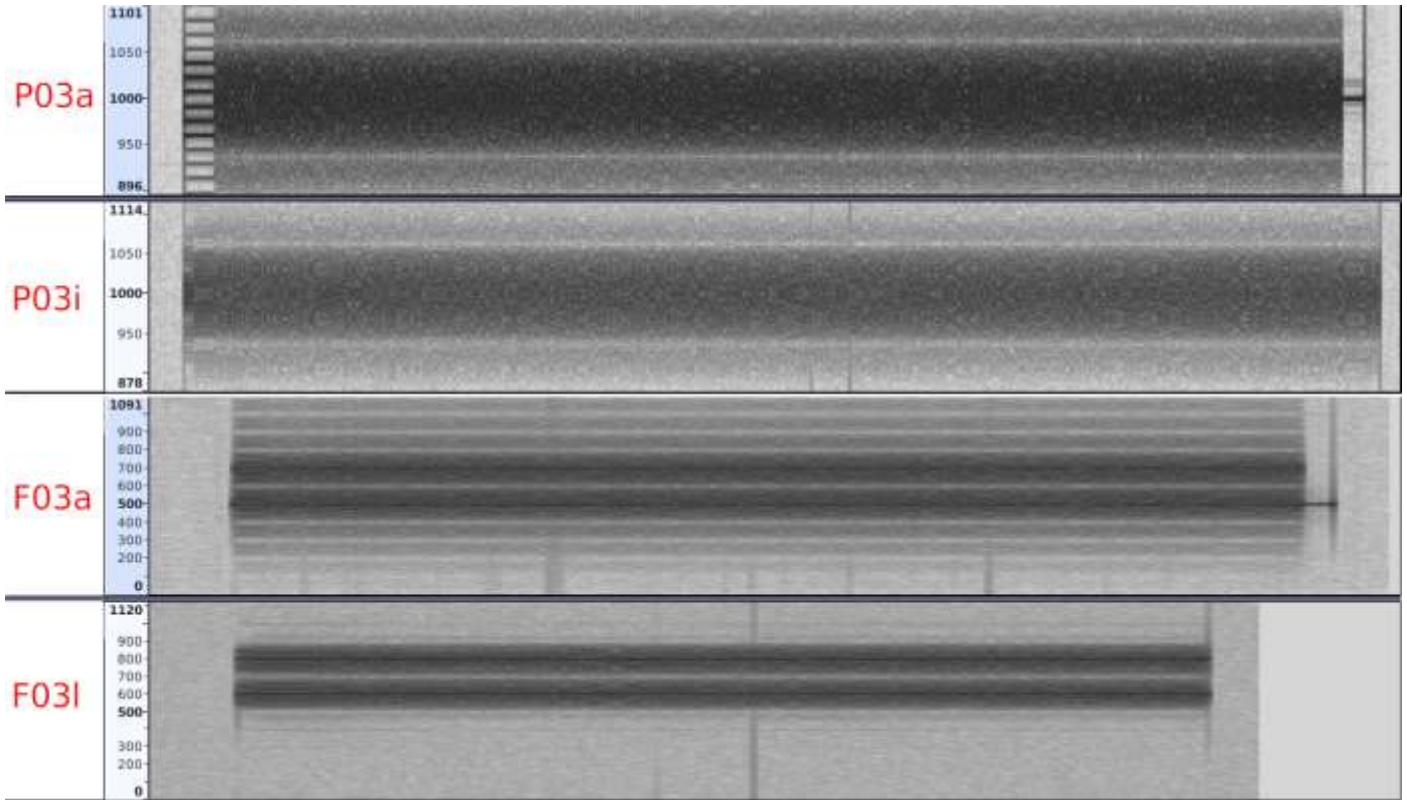
Note that the new variants F03l and P03i are very similar to F03a and P03a.



FSK 4



FSK 2



Picture by Danix

## DIPLOMATIC STATIONS

### Egyptian diplomatic stations

18030 kHz, 01-01, 0932 UTC, SITOR-A 100/170. Egyptian embassy Niamey

20 1 1 130 / YFASR FAJ ... LH 1 / / 02

=====

JG : GSKJS

KDS : KDJFKQOH

====

HTSKHGK DPSKMHWJ :-

KDSWJ KAUKD KDKOJKD OG SLJ 1 02 20 / / 1

KDXKMF KDLKFM

KDJZHFV OMM KPWGF UKSD OFXS XTKUR OMM KPWGF UKSD JGKLDLDR

2 - - 3 - - - - - 212

- - - - - 1 213 - - -

-----

KDKQJKDS 3 -- - - 3 - - -- -  
KQJKDS OMMKDYFASKH KDXKMFH ) 3 ( NDKNH  
KQJKDS OMM KDYFASKH KDLKFMF ) ( NDKNH 3  
@ YSKGKH KDKOJKD KDXKMFH DS 212 .  
- HS 1 QKGY 1 HBX 312 .  
- HS

**6789.7 kHz, 03-01, 1845 UTC, SITOR-A 100/170 and CODAN**

99910: MFA Cairo msg to 11102: Egyptian embassy Paris

**9045 kHz, 08-01, 1903 UTC, SITOR-A 100/170**

71: MFA Cairo wkg 66601: Egyptian embassy Washington.

FROM : 71 / TO : WASHINGTON  
TIME & DATE: 20:36, WEDNESDAY, JANUARY 08, 2020  
NUMBER OF GROUPS: 160  
URGENT

**9055 kHz, 08-01, 1918 UTC, SITOR-A 100/170**

MFA Cairo clg 00001: Egyptian embassy Algiers

**9066 kHz, 08-01, 1913 UTC, Codan-16**

MFA Cairo wkg 11102: Egyptian embassy Paris

**5116.7 kHz, 12-01, 1645 UTC, SITOR-A 100/170**

MFA Cairo. Messages In 4th Shift Arabic-80 mode to unid embassy

**6777.7 kHz, 22-01, 1949 UTC, SITOR-A 100/170**

MFA Cairo clg TVVC: Egyptian embassy Baghdad

**9157.7 kHz, 26-01, 1400 UTC, SITOR-A 100/170**

71: Egyptian Military Intelligence, Cairo msg to Egyptian embassy Islamabad

FROM : 71  
TO : ISLAMABAD  
TIME DATE: 15:23, SUNDAY, JANUARY 26, 2020  
NUMBER OF GROUPS : 223  
URGENT

D2B D6547 B5CDF 8D70B 63BD7 864CE AFBDE AC6A9  
DB01&4D 4A20A ABE35 D8A60 03B6D 66F8 5A77D A88FD  
A5313 3CFEN POC303E EGLDGLHBF5E15 82387 38500 D7CD8 6A22D OCC9B 78CE3  
D3DCE B63/981 EE4EF CEFC0 207DE 237B9 53310 70CB1 F467A B1A0C  
568E1 A2B4B 14F6D 31D9B 57B9?FMPB691 50839 213F8 5460 17FE8  
2357D 9490D AFAEC AA609 B4B47,,517 110CB DD4E4 KGOXHF76E  
DE95 1767F 6F3AQC30A 1E3BF 3E0B 5B82F AE542 9C674 C973D D65AB  
C6712 19D63 3BC2F76A 096A2 5CA74 300E6 435D1 7B487 B91F0 7493  
42E12 AYQ OYOTI PWREA 040D9 A71AAC CEIY YRCCE C083D A45EE 4583E  
6BCC6\$66 C07D3 7C1D9 7AB34 49D50 04B05 D8F9E B52AC C2F52 91306  
1BE0C 5EBE7 40665 336 02B09 7J84BF6 3C14A 3898A 61004 56339 5A3DC  
FAF16 1EB2 FB7D1 0C6E1 7 D15C6 :- 364EB 481BA E8745 B845C A5914 95F34  
E9F96 EADAC TE5 ?-2 AA1AD 5776F 575EBWMOD BCAF E A767(&#:7-860 73F06  
AC91D 5DE11 5D6A6 10183 E569A 50713 88B98 5D704 CD044 F7EF0 EEE39  
12179 4871C 66971 3UD 15AD8 5B5BB 7B87 1809A 8452F CC698 EB2E5 49F42  
E6879 E588A FBBF2 CA 2DF0B 74CFC 95021 90733 FD00 5BD06 E1CBF BCC0E  
E8A5B YF WF6D8 0201B D247C B2FEB 7887D 1D158 3FC12 45DC7  
B7AB8 A4E30 66027 0E4CB 907B9 6C1D7 1B28C DEA94 842AA 574ED  
CD773 F9A3C A3540 23CAB 3CAFA AC3B3 31324 D294 A7EF4  
83CAC 7D6E0 6820B E504B AE2E3 54A74 B79E2 7A7A2 3E6F5 8FD63  
6BA30 9F387 59911 499  
NNN  
KPHOMMMMM JG QMSM HUXD

FROM : 71  
TO : ISLAMABAD  
TIME & DATE: 15:23, SUNDAY, JANUARY 26, 2020  
NUMBER OF GROUPS: 223  
URGENT

PQP52 DB200 D6547 B5CDF 8D70B 63BD7 864CE AFBDE AC6A9  
DB011 4D66D 4A20A ABE35 D8A60 03B6D 66230 4A77D A88FD  
A5313 3CFEN PC303 FE515 82387 38500 D7CD8 6A22D OCC9B  
78CE3 D3DCE b6381 EE4EF CEFC0 207DE 237B0 70CB1 F467A B1A0C  
568E1 A2B4B 14F6D 31D9B 57B98 3B691 50839 213F8 5460B 17FE8  
2357D 9490D AFAEC AA609 BTQU QQPCB DD4E4 A8 1F76E  
4DE7F 6F3A4 1C30A E3BF 31CBA D6E0B 5B82F AE542 9C67D  
C7C14 B6947 C973D D65AB C6712 19D63 3BC22 3F76A A2 5CA74  
95E0E 435D1 7B487 B90 F2E12 A0661 0243A 040D9  
A71E6 0CE86 64CCE C083D A45EE 4583E 6:6 32108 CDCGC1D9  
7AB34 4950 04B05 D8F9E B52F52 91306 1BE0C 5EBE7 40665  
320E6 02B09 87C8A EC14==\$(?YQPPR TYEEO TA3DC NMP  
QE0B2 FD1 0C6E1 120C7 D15C6 '\$? BA E8745 C  
A5914 95F34 E9F96 EADAC B15E5 05BA1AD 5776F 575AE 01EB  
BCAFE A7672 220C7 D19C0 73F06 AC91D 5DE11 5D6A6 10183 E569A  
50713 8 5D704 CD044 F7EF0 EEE39 12179 4871C 66::5347D  
155B5BB 7B8B7 1A 8452F CGPL2E5 49F42 E3588A  
FBBF2 FACCA 2DF9MFC 95021 90733 FD0E0 5BD1CBF BCC0E  
E8A5B FE100 2F6D201B D247C B2FEB 7887D 1D158 3FC12 45D  
A4E30 66027 0E/4? 907B9 6C1D7 28C DEA94 842AA 574ED B7AB8  
A4E30 66027 0E4CB 907B9 6C1D7 1B28C DEA94 842AA 574ED  
CD773 F9A3C A3540 23CAB 3CAFA AC3B3 31324 9D294 A7EF4  
83CAC 7D6E0 6820B E504B AE2E3 54A74 B79E2 7A7A2 3E6F5  
8FD63 6BA30 9F387 59911 499

NNNNNN  
UIIONNKFFUIIHKJ WMH KPHKMS

## UTILITY ROUND-UP

### Propaganda

#### Russian-Ukrainian radio war

Foul and obscene language, waterfall text, and parts of nationalist propaganda radio and tv programs can be heard on various frequencies in the HAM bands. Daily during daytime (0500-1800 UTC) on 7055 kHz LSB and, less frequently, 7050, 7058 and 7060 kHz LSB. During the evening they regularly use 3 MHz frequencies like 3731 kHz. The transmissions started in 2014 following Russia's involvement in the crisis in eastern Ukraine. The transmissions come from both sides, from Russia and Ukraine. Often on top of each other. Officially these guys are HAM operators but it is thought that the Russians are backed by security agencies. The same is said about the Ukrainian operators. So far there is no evidence that this is true.

The crisis in Ukraine is caused by a power struggle between pro European Union parties and pro Russia parties. Many people in eastern Ukraine are ethnic Russians. In 2014 these Russian backed separatists took over official buildings like city halls and police stations throughout eastern Ukraine. They want to be part of Russia. In March 2014, the crisis exploded when Russian special forces occupied Ukraine's Crimean peninsula. The military conflict between Ukrainian military and Russian-backed separatists in eastern Ukraine still continues.



**General information**

Country name	Ukrayina (Ukraine)
Capital	Kyiv (Kiev)
Provinces	Cherkasy, Chernihiv, Chernivtsi, Dnipropetrovs'k (Dnipro), Donetsk, Ivano-Frankivs'k, Kharkiv, Kherson, Khmel'nyts'kyy, Kirovohrad (Kropyvnyts'kyy), Kyiv, Luhans'k, L'viv, Mykolayiv, Odesa, Poltava, Rivne, Sumy, Ternopil', Vinnytsya, Volyn' (Luts'k), Zakarpattya (Uzhhorod), Zaporizhzhya, Zhytomyr
Autonomous republic	Crimea or Avtonomna Respublika Krym (Simferopol')
Municipalities	Kyiv, Sevastopol'
Military forces	Armed Forces of Ukraine (Zbroyni Syly Ukrayiny, ZSU): Ground Forces (Sukhoputni Viys'ka), Naval Forces (Viys'kovo-Mors'ki Syly, VMS), Air Forces (Povitryani Syly, PS), Air Assault Forces (Desantno-shturmovi Viyska, DShV); Ministry of Internal Affairs: National Guard of Ukraine, State Border Guard Service of Ukraine (includes Maritime Border Guard)
Intelligence agencies	Служба безпеки України / Sluzhba bezpeki Ukraïni Security Service of Ukraine <a href="https://ssu.gov.ua/en/">https://ssu.gov.ua/en/</a>  Служба зовнішньої розвідки України / Sluzba zovnishn'oyi rozvidky Ukrayiny ( SZR) The Foreign Intelligence Service of Ukraine <a href="https://fisu.gov.ua/en">https://fisu.gov.ua/en</a>  Головне управління розвідки Міністерства оборони України / Holovne upravlinnya rozvidky Ministerstva oborony Ukrayiny Main Directorate of Intelligence of the Ministry of Defence of Ukraine <a href="http://gur.mil.gov.ua/en/">http://gur.mil.gov.ua/en/</a>

**Logs**

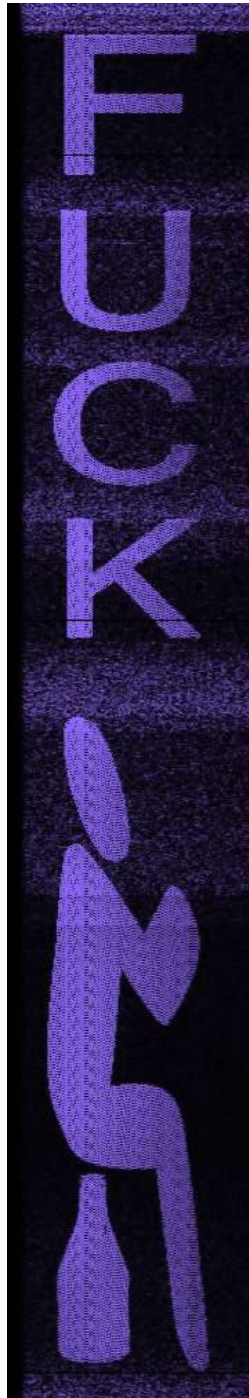
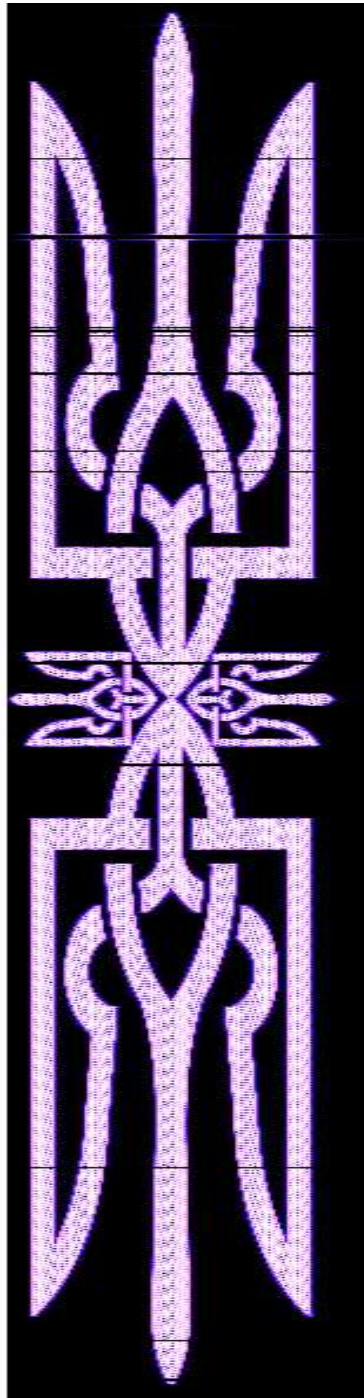
7055 kHz, 08-01, 0813 UTC  
 7050 kHz, 08-01, 1322 UTC  
 7055 kHz, 08-01, 1322 UTC  
 7050 kHz, 09-01, 1048 UTC \*)  
 7055 kHz, 09-01, 1049 UTC \*)  
 7050 kHz, 10-01, 1720 UTC Obscene waterfall text  
 7050 kHz, 10-01, 1050 UTC  
 7055 kHz, 10-01, 1050 UTC  
 7055 kHz, 15-01, 0828 UTC  
 7055 kHz, 16-01, 0643 UTC  
 7055 kHz, 16-01, 1056 UTC  
 7055 kHz, 22-01, 0825 UTC  
 7050 kHz, 23-01, 1029 UTC  
 7055 kHz, 23-01, 1029 UTC  
 7055 kHz, 24-01, 0725 UTC  
 7055 kHz, 28-01, 1330 UTC Obscene waterfall text  
 7058 kHz, 28-01, 1346 UTC

7055 kHz, 29-01, 0823 UTC  
 7055 kHz, 30-01, 1044 UTC  
 7055 kHz, 31-01, 0624 UTC

\*) recordings and waterfall text  
<http://www.numbersoddities.nl/2020-01-09-1049utc-7050khz.mp3>  
<http://www.numbersoddities.nl/2020-01-09-1048utc-7055khz.mp3>  
<http://numbersoddities.nl/2020-01-09-7055khz-waterfalltext.mp3>

The recordings include obscene language mostly from Ukraine towards Moscow this time. You can hear phrases like these: Some are mentioned hereafter. Note that both sides do the same. Moskalyaku na gilyaku (Send Moscovites to the knives) Yebat' priamo v sraku (Fuck you in the ass)

More recordings can be found on our website  
<http://numbersoddities.nl/various.html>







Related websites and information

<http://khpg.org/en/index.php?id=1532985118>

[https://www.ksk.edu.ee/wp-content/uploads/2017/02/Report\\_infoops\\_08.02.2017.pdf](https://www.ksk.edu.ee/wp-content/uploads/2017/02/Report_infoops_08.02.2017.pdf)

<https://www.ozy.com/fast-forward/the-propaganda-war-now-broadcasting-in-eastern-ukraine/86316/>

<https://www.bbc.com/news/blogs-trending-41915295>

# US Joint Chief of Staff Emergency Action Messages and Foxtrot Messages

**Frequencies: 4724, 8992, 11175, 15016 kHz.**

**11175 kHz, 27-01, 1410 UTC**

Skybird, Skybird, Skybird. This is Fox-71. Break. Harvard Zulu time 1405. I am approximately thirty nautical miles offshore in international airspace.

Last caller, last caller this is Skybird, Skibird. Triple one seven five. Say again your last, over (no reply)

**11175 kHz, 27-01, 1416 UTC**

Skybird, Skybird, Bunker-71. Break. Brother Zulu time 1416. Thirty miles offshore in international airspace.

Last caller, last caller this is Skybird, Skybird. Please say again callsign, over (no reply)

Date	UTC	Callsign	Details
02-01	0723	Fish Bay	30 chr EAM DSBMVE 2ASQWVULCS32YEMQY2NLUGIZ
02-01	0736	Fish Bay	30 chr EAM DSASTU MUJMJ7DPI6YBDDZVULE47Q62
02-01	1446	Fish Bay	30 chr EAM DSKGUB 2S5YHTUO3BGKVP5FHHG3NJFE
02-01	2333	Fish Bay	30 chr EAM DS62JT FO3TUMVOAIUTWHHXO2WZYA5T
03-01	1531	Advocate	30 chr EAM DSRQJW OXBU3LP536GILLRB2B7L2OWB
03-01	1630	Advocate	30 chr EAM DSRQJW OXBU3LP536GILLRB2B7L2OWB
03-01	1803	Advocate	30 chr EAM for Tile-13 6GYGVV GZMETHWBWWZLWVXETFLQ4I2
03-01	1834	Advocate	30 chr EAM DS3TLJ G4AUOIYX7YURFV4EX4IAGNF
03-01	2332	Advocate	30 chr EAM DSQEQD RLOXAL2BBCEXJ5N46MSML6D7
04-01	0132	Big Deal	30 chr EAM DSRGFR WFCI6JK54QUR63J7MQXROTWS
04-01	0631	Big Deal	30 chr EAM DSQ3QZ LOBTRZDW6GRX7OE2O35FSGQN
04-01	0910	Big Deal	30 chr EAM DSGRDS ERPPXL4IEZTVBOU2NN3SJ4NI
04-01	1633	Big Deal	30 chr EAM DSIYEP CU4K2DRWG4XVTSXSDVWIBGLA
04-01	1659	Big Deal	30 chr EAM DSFL4G 7NSL4UOBQJC4SHPLD2HBA47U
04-01	1703	Big Deal	30 chr EAM DS3LGB BJK3IJKPJ5JNPVJFG3LASO35
04-01	1707	Big Deal	30 chr EAM DSDDKV 63LSFR7VHEEI24LBMJHQPEU
04-01	1710	Big Deal	30 chr EAM DSIYEP CU4K2DRWG4XVTSXSDVWIBGLA
05-01	0132	Wreckless	30 chr EAM DSKIKV DE32PZSQZI7VGEM7V324QYV5
05-01	0612	Wreckless	30 chr EAM DSTU26 QWUU2R4YS43IKMZNRBCGEPZL
05-01	0615	Wreckless	30 chr EAM DSAMX5 SHQNCCASC5SLO4OLWKCAPWO
05-01	0620	Wreckless	30 chr EAM DSHRJN ADSBA6B4VVACYNBVWXJNML62
05-01	0629	Wreckless	30 chr EAM DSHRJN ADSBA6B4VVACYNBVWXJNML62
05-01	0631	Wreckless	30 chr EAM DSAMX5 SHQNCCASC5SLO4OLWKCAPWO
05-01	0633	Wreckless	30 chr EAM DSTU26 QWUU2R4YS43IKMZNRBCGEPZL
05-01	0641	Wreckless	30 chr EAM DS6HLZ A3WSOVS3OZEW3QG3PBADEW4B
05-01	0651	Wreckless	30 chr EAM DSUHCJ SOKNZ7VUSR26HQNWSBKBG375
05-01	0700	Wreckless	30 chr EAM DSBGRD BRF3IMVCSSXWN4YCMDQ26LSG
05-01	0704	Wreckless	30 chr EAM DSBGRD BRF3IMVCSSXWN4YCMDQ26LSG
05-01	0707	Wreckless	30 chr EAM DSUHCJ SOKNZ7VUSR26HQNWSBKBG375
05-01	0709	Wreckless	30 chr EAM DS6HLZ A3WSOVS3OZEW3QG3PBADEW4B
05-01	0719	Wreckless	30 chr EAM DS3D6S GIYHK6ZD4BQRS627AVXFNQCI
05-01	0723	Wreckless	30 chr EAM DSTGPZ 3WYGZJJGL4SSA474NWZEAJSV
05-01	0731	Wreckless	30 chr EAM DSTGPZ 3WYGZJJGL4SSA474NWZEAJSV
05-01	0733	Wreckless	30 chr EAM DS3D6S GIYHK6ZD4BQRS627AVXFNQCI
05-01	0800	Wreckless	30 chr EAM DSTGPZ 3WYGZJJGL4SSA474NWZEAJSV
05-01	0803	Wreckless	30 chr EAM DS3D6S GIYHK6ZD4BQRS627AVXFNQCI
05-01	0834	Wreckless	30 chr EAM DSTGPZ 3WYGZJJGL4SSA474NWZEAJSV
05-01	0836	Wreckless	30 chr EAM DS3D6S GIYHK6ZD4BQRS627AVXFNQCI
05-01	0900	Wreckless	30 chr EAM DSTGPZ 3WYGZJJGL4SSA474NWZEAJSV
05-01	0903	Wreckless	30 chr EAM DS3D6S GIYHK6ZD4BQRS627AVXFNQCI
05-01	1602	Wreckless	30 chr EAM for Crude 6GBS6G EGDKMQPV45A4JVP5L5TD7WW
05-01	1616	Wreckless	30 chr EAM for Crude 6GYWJU QI7YRMDU73I4ELT3PJGJFBHM
05-01	1632	Wreckless	30 chr EAM for Crude 6GW5OE 3E36MRBHLQP5APL6T3DCPIQ
05-01	1732	Wreckless	30 chr EAM DSUJOS ZCKW5LIWV3SJ6P5ZGF4DLKEG
05-01	1904	Wreckless	30 chr EAM for Crude 6GE6H6 MZEZIMTKT2F2SCNMHUIIFEC7

05-01	1916	Wreckless	30 chr EAM for Crude 6GY5LW EGVFXFR6JXGYZBEBYCGFD63U
06-01	0654	?	30 chr EAM DSTOZ3 6WL4V4BXOGATSWMM3BNYVRBX
06-01	0701	?	30 chr EAM DSTOZ3 6WL4V4BXOGATSWMM3BNYVRBX
06-01	0701	?	30 chr EAM DSJFNS BYZK62TC63KXBBIKESRKYCDF
07-01	0112	Blow Fuse	30 chr EAM 6GAJXC 7KKK7CYMDYXXTBQ5AEZTOSHV
07-01	0117	Blow Fuse	30 chr EAM 6G2SZR VLC7TDWM637ABYPN266WWBY
07-01	0542	Blow Fuse	30 chr EAM DSV5TW IG777RXAGKLB RN7CA526RGDS
07-01	0545	Blow Fuse	30 chr EAM DS6CCI K7Y7SV7EIPLT??TO5X7YICXH very poor signal
07-01	0620	Blow Fuse	30 chr EAM DS4VC2 R34YXEJQ7VQIMMRRBRJ7UM4
07-01	0623	Blow Fuse	30 chr EAM DSV7G4 EXNV4L2EICYO BWNS43SONYIU
07-01	1614	Blow Fuse	30 chr EAM DS2IE4 YGXIUBAD7S62PFB6OYPKD52Y
07-01	1618	Blow Fuse	30 chr EAM DS6FA5 7JCCDEZSPCCUDTYSGDPEYXT3
07-01	1700	Blow Fuse	30 chr EAM CFDQO 6AXGBO2MT2NJWO4ZHMWJZY7H
07-01	1825	Blow Fuse	30 chr EAM for Gold?-35 6GH235 SVECPTVGG7HNO6PSFARERQG3
07-01	1853	Blow Fuse	30 chr EAM CFL6EC NV6KNDPF3TQMHWBTBJEZSCQUH barely audible
07-01	1906	Blow Fuse	30 chr EAM CFL6EC NV6KNDPF3TQMHWBTBJEZSCQUH barely audible
08-01	1535	Night Fall	37 chr EAM 6GEPHK E7VHKCW WOD6NIRUO3QD6Z6TGVY3NTVV
08-01	1727	Night Fall	30 chr EAM CFLA2T MRU2DITSUDWICB6WZII43A6C
08-01	1732	Night Fall	30 chr EAM CFKYVL RYTM2XAKOQ5YKJHJTOSU2HI
09-01	0627	Aloe Vera	30 chr EAM CFXZ6Y P47EXNUCKNINFLFKESXLRVTH
09-01	0700	Aloe Vera	30 chr EAM CFXZ6Y P47EXNUCKNINFLFKESXLRVTH
09-01	0713	Aloe Vera	30 chr EAM CFQHAR LMH6RETF4QWXIF5WG3KUL2VZ
09-01	0727	Aloe Vera	30 chr EAM CFUZH LVWBZC3Z3UBYW56ONVOLW7SX
09-01	0730	Aloe Vera	30 chr EAM CFQHAR LMH6RETF4QWXIF5WG3KUL2VZ
09-01	0732	Aloe Vera	30 chr EAM CFXZ6Y P47EXNUCKNINFLFKESXLRVTH
09-01	1910	Aloe Vera	30 chr EAM CFGDDK LYOTA5EFOKA5JMLLBDWS4QV
09-01	1920	Aloe Vera	30 chr EAM CF6DJL ZESQAHAETFQ57XI3WLVI27P
09-01	1930	Aloe Vera	30 chr EAM CFMOZH XEAURQ3Z74PZ7EALGN4KGI7Y
09-01	2048	Aloe Vera	30 chr EAM for Live? for Nine 6GGBSC D6O2F7QF7PYEVPSCORKHJZQI
09-01	2117	Aloe Vera	30 chr EAM CFRF27 OEPQKHMKY24NCLUTJ4WJHQ5C
10-01	0733	Bankbook	30 chr EAM CFWG27 T7FVFP3QVOVT62KH4RGAJQ3
10-01	0800	Bankbook	30 chr EAM CFWG27 T7FVFP3QVOVT62KH4RGAJQ3
10-01	0812	Bankbook	30 chr EAM CF4L2Y DS724ORD7L4RB2DRPXKDNQVO
10-01	0913	Bankbook	54 chr EAM 3D2OP7 PLUFHDN4WGF5PTH4CUITDDSFFQSDLQQUNUNNNN7CBEF6SPL
10-01	1358	Bankbook	30 chr EAM for Paper Birch, for Big Ben 6G7VTR FPAYWREEZ4VJG2KCIHK6ORCC
10-01	1426	Bankbook	37 chr EAM 6GV BHW HSBLBHPBVC7XMPYELDU7VQU5UPVIYQ
10-01	1439	Bankbook	30 chr EAM CFITG4 7FE6ORX7UBBO3ZPK75W2EQPR
10-01	1442	Bankbook	30 chr EAM CFORV2 DTG7QFYEBYTLXJG5RVPQTVJ4
10-01	1451	Bankbook	30 chr EAM CFYC6L V4JJVDXADHVRQCM7WP4AJ6L3
10-01	1459	Bankbook	30 chr EAM CFYC6L V4JJVDXADHVRQCM7WP4AJ6L3
10-01	1503	Bankbook	30 chr EAM CFYC6L V4JJVDXADHVRQCM7WP4AJ6L3
10-01	1505	Bankbook	30 chr EAM CFORV2 DTG7QFYEBYTLXJG5RVPQTVJ4
10-01	1508	Bankbook	30 chr EAM CFITG4 7FE6ORX7UBBO3ZPK75W2EQPR
10-01	1549	Bankbook	30 chr EAM for Paper Birch, for Big Ben 6GDUZP P7IHAMVVVKUY6VM7NWKVHXIDQ
10-01	2133	Bankbook	30 chr EAM CFLX3G 3CKWBOFOGJSYJ2VJWLTWOFXE
10-01	2333	Bankbook	30 chr EAM CFTXYR LOJ7UNX5HPAABGPVA5S6X2OF
11-01	0534	Snowplow	30 chr EAM CFYHOD KPZFYDTR43PCB6A2BAAIFLGV
11-01	0641	Snowplow	30 chr EAM CFANCO EXYREZPQNEGUXLQ3F76G3ZRT
11-01	0700	Snowplow	30 chr EAM CF7B7A 74AX4FRAE6S3MFZR4ROBU24J
11-01	0702	Snowplow	30 chr EAM CFANCO EXYREZPQNEGUXLQ3F76G3ZRT
11-01	0704	Snowplow	30 chr EAM CFYHOD KPZFYDTR43PCB6A2BAAIFLGV
11-01	0707	Snowplow	30 chr EAM CFML42 JO5T73EHTSNK7GKBHDKOU7XQ
11-01	0709	Snowplow	30 chr EAM CF4G2X G7AIOYGRQQ5XVPVLUHKBLHU3
11-01	0730	Snowplow	30 chr EAM CFYHOD KPZFYDTR43PCB6A2BAAIFLGV
11-01	0732	Snowplow	30 chr EAM CFANCO EXYREZPQNEGUXLQ3F76G3ZRT
11-01	0734	Snowplow	30 chr EAM CF7B7A 74AX4FRAE6S3MFZR4ROBU24J
11-01	0737	Snowplow	30 chr EAM CFML42 JO5T73EHTSNK7GKBHDKOU7XQ
11-01	0739	Snowplow	30 chr EAM CF4G2X G7AIOYGRQQ5XVPVLUHKBLHU3
11-01	0745	Snowplow	30 chr EAM CFJNKB EIDTI7XROX7YOZGSC6AODQK
11-01	0751	Snowplow	30 chr EAM CFDPCW H4MVQO2ICBWN57NKMEUPIHR7
11-01	1547	Snowplow	30 chr EAM CFA6NN VUPU7QU6SQ2BRJEB37JHN7IE
11-01	1600	Snowplow	30 chr EAM CFUOS7 OXHNID6HRGALMFJITAML7XS4

11-01	1603	Snowplow	30 chr EAM for Honkytonk 6GFXW2 WE2LTHMPS2J2XN5BJG6ABRKZ
11-01	1608	Snowplow	30 chr EAM CFUOS7 OXHNID6HRGALMFJITAML7XS4
11-01	1611	Snowplow	30 chr EAM CFA6NN VUPU7QU6SQ2BRJEB37JHN7IE
11-01	1630	Snowplow	30 chr EAM CFUOS7 OXHNID6HRGALMFJITAML7XS4
11-01	1632	Snowplow	30 chr EAM CFA6NN VUPU7QU6SQ2BRJEB37JHN7IE
11-01	1646	Snowplow	30 chr EAM for Honkytonk 6GD4BR M2NEJ36ZIS7VWY5IXP6TV CIV
11-01	1657	Snowplow	30 chr EAM for Honkytonk 6GZEKQ USB6FQUIFUT5WDDZMPN2WWI5
11-01	1713	Snowplow	30 chr EAM for Honkytonk 6G7CJG HRPEQOC3OJUEJIMJGZ4WJEQH
11-01	1743	Snowplow	30 chr EAM for Honkytonk 6GWS6Z 5MD2IWB3RZKLFSLIYYQLR SO
11-01	1812	Snowplow	30 chr EAM CFXDJE T6FFJNTD4IKHMDEF3V26K3LY
11-01	2335	Snowplow	30 chr EAM CFXG4V Y7S4CWL NQG2ZH2LWOXASJGHV
12-01	0714	Checkroom	30 chr EAM CFQR3K ZRW?6VC6W4HAJ6GZNV7URRVW barely audible
12-01	1630	Checkroom	30 chr EAM for Honkytonk 6GKUIQ ULQ2VZFPRL4LBXP2PU4EH5KW
12-01	1643	Checkroom	30 chr EAM for Honkytonk 6GJCZD NBRHECKNCHLKG7REQYEKBEYQ
12-01	1657	Checkroom	30 chr EAM for Honkytonk 6GEF4Z PKECP2QILT GSEB2TKESFHVY5
12-01	1711	Checkroom	30 chr EAM for Honkytonk 6GQENY SP2VSYVHCEFC2JQ7CWW3D3FC
12-01	1734	Checkroom	30 chr EAM CF6PBU 5NTR5PEY067PRKGCZNFAG7SX
12-01	1748	Checkroom	30 chr EAM for Honkytonk 6GSPWA RZHJHMN66EOCYXO23ZK265CB
12-01	2047	Checkroom	30 chr EAM CFHUG6 YWAK743LSZPK27MIGICTVD4O
13-01	0133	Extention	30 chr EAM CFESUI MRZR7WV2UKX5UGLVWAYO4W6
13-01	0549	Extention	30 chr EAM CFD3C6 RYL7LRZPHHS4EETT5TS7FOCJ
13-01	0602	Extention	30 chr EAM CFS624 4T2P3QY24Y6RYY56N3QCUNKI
13-01	0653	Extention	30 chr EAM CFNR64 D77YPIENFETXW5J47UYBWZNA
13-01	0658	Extention	30 chr EAM CFK4J2 CSNKRTZT33JHUG75SDV4WN52
13-01	0702	Extention	30 chr EAM CFK4J2 CSNKRTZT33JHUG75SDV4WN52
13-01	0704	Extention	30 chr EAM CFYL6R 3UCZDEW5CYK6IGEGKSZW6TQS
13-01	0707	Extention	30 chr EAM CFS56E SJFRMQRTIAQTDNAI5GSNDG XK
13-01	1238	Extention	37 chr EAM 6GRTXJ SHCUMU4LSPK3O GOBIOASFFU7IYFT5FI
13-01	1246	Extention	30 chr EAM for Sir-73 6GQS2S GG7KYS DAPBDYK7JFN SON3SNL
13-01	1353	Extention	30 chr EAM 6G6LCT DSIL4RGPJSNBDNHMMZVDPDAV
13-01	1434	Extention	30 chr EAM CFQDZZ U7UYFPX2JVABSUY5WZ7LXIUD
13-01	1506	Extention	30 chr EAM CF5COY 2GK4TE7DKLDH64RR TNSOEDYU
13-01	1536	Extention	30 chr EAM CFHFTZ 6OABZ6RW6HVKX67VCPM ZCKJD
13-01	1605	Extention	30 chr EAM CFKQKY 2H7UTVNE4FK32FDZPNRFUSKN
13-01	1903	Extention	30 chr EAM CFOC6E HA44T2C3MD57B52O4IO7ZXTS
14-01	0636	Auger Bit	30 chr EAM CFDUXQ 3Z6E2GCG6XHBG4EE2LJYFCPN
14-01	0659	Auger Bit	30 chr EAM CFZWDA E3FZAU4OG722R3W4DSFA4BVG
14-01	0701	Auger Bit	30 chr EAM CFDUXQ 3Z6E2GCG6XHBG4EE2LJYFCPN
14-01	0718	Auger Bit	30 chr EAM CFODX5 36WITUPZ6NAHQY3QM2RUQGDL Disregard this transmission. Mainsail, out
14-01	0721	Auger Bit	30 chr EAM CF7M2F PSUVEBQ4JJX77C6BA2S3JOLY
14-01	0725	Auger Bit	30 chr EAM CFODX5 36WITUPZ6NAHQY3QM2RUQGDL
14-01	0730	Auger Bit	30 chr EAM CF7M2F PSUVEBQ4JJX77C6BA2S3JOLY
14-01	0732	Auger Bit	30 chr EAM CFODX5 36WITUPZ6NAHQY3QM2RUQGDL
14-01	0735	Auger Bit	30 chr EAM CFZWDA E3FZAU4OG722R3W4DSFA4BVG
14-01	1305	Auger Bit	30 chr EAM for Cousin, for Popular 6GW3GN RSXO3F7XWDENJ5DJX5FVR6OE
14-01	1313	Auger Bit	37 chr EAM 6GXU3A 5625UTPDN3437RRHC5W4HOPHX4KDUH7
14-01	1348	Auger Bit	30 chr EAM CFAQQU LE43ROXFH7FYNJTHFBA5X3DS
14-01	1354	Auger Bit	30 chr EAM CF7WX7 VJ7QZH2OG6FGN5WCEN3TQF2X
14-01	1359	Auger Bit	30 chr EAM CF7WX7 VJ7QZH2OG6FGN5WCEN3TQF2X
14-01	1404	Auger Bit	30 chr EAM CFBIKJ M434JTG24UIZRI OFNPNJEZPR
14-01	1410	Auger Bit	30 chr EAM CFCRH X ZWYKJCNKHDP66P4HY2DJ54SQ
14-01	1413	Auger Bit	30 chr EAM CFCXP3 RFCKIDTU2PAHRUYZF4PXYHG
14-01	1817	Auger Bit	30 chr EAM for Outwit 6GCBNX 37A34BQQ376XJDYCIPOUDYVA
14-01	1840	Auger Bit	30 chr EAM for Thorny 6GQ2FN OBURGWZT55LFLNFGGX3MAR7T
14-01	1847	Auger Bit	30 chr EAM for Thorny 6GQ2FN OBURGWZT55LFLNFGGX3MAR7T
14-01	1923	Auger Bit	37 chr EAM 6GOVCS 6TSPFLAHQD2XBMNC3G4T4R BV3HMXFVX
14-01	2215	Auger Bit	30 chr EAM 6GICTJ VZECUBEQWLSQHD2J7KICPP4E
14-01	2233	Auger Bit	30 chr EAM for Thorny 6GJLIO 7TL5QH BKOU MUA5MHHQZDEAW6
14-01	2251	Auger Bit	30 chr EAM for Thorny 6GWLZS IGAVK7YMSRM6FNJ JT63TJHRH
14-01	2307	Auger Bit	30 chr EAM for Thorny 6GGASL RAGTSW52QRYNTGYQ5EJWHN5S
15-01	1343	Cathedral	30 chr EAM for Perform 6GDV5O OBDOIOB7MMHE42XDDZ4M3QZH

15-01	1605	Cathedral	30 chr EAM for Bow UIWQWH Z7IZ24PCNWKU4ENJO7BA25I3
15-01	1617	Cathedral	30 chr EAM for Bow UI62FP UJU663RJR4QE35CFIQDMLVYK
15-01	1633	Cathedral	30 chr EAM for Bow UI3QQP 3ISGVHDB6VUOINY6JCSAXMVJ
15-01	1853	Cathedral	30 chr EAM for Bow UINM7V TCNSX2B75RI627OTJ3YQMQRH
15-01	1903	Cathedral	30 chr EAM for Bow UIDNWV J7YC72TM7OA26Q6XYTVN7KLF
15-01	1915	Cathedral	30 chr EAM for Perform UIIIRR VCXRKDVM7MBDJKEV5UMYXOU3
15-01	1936	Cathedral	30 chr EAM for Perform UIBBCV 2FT2LKM2UY4V75LAA7E3T6TD
15-01	2117	Cathedral	30 chr EAM CFCLAE IPR3OFGEDKC7YNSWBVIQENUP
15-01	2225	Cathedral	30 chr EAM CF5D7W 4HYEO4EHAEHKYD3B5VUHVMTX
15-01	2303	Cathedral	30 chr EAM for Perform UIEYZW T6Q44RVRMND3RVERJYAOVW55
15-01	2318	Cathedral	30 chr EAM for Perform UIDJ7F C4KNBS4LZIBYSG5P4WPSCN67
15-01	2333	Cathedral	30 chr EAM CFVL2K XJNRGHUG7L6HOL27CJHLUEP2
16-01	0134	Extradite	30 chr EAM CFFRTY LKQWJWWV7NP2XW7E22LVXC3J
16-01	1247	Extradite	30 chr EAM for Bush Glory UIVCNL FX5RZTCFMC42BGCNDIGSVC7D
16-01	1306	Extradite	30 chr EAM for Bush Glory UIJBBC 7M46RQQUVYQUUIHF6OHRM4Q7
16-01	1336	Extradite	30 chr EAM for Bush Glory UIFQ27 MAGBZACN2BD5LGLVWCNVVZOK
16-01	1426	Extradite	30 chr EAM CF3OUN 7KP5A4742C4NVATWKD3NKA2R
16-01	1429	Extradite	30 chr EAM CFGWXF AAYNCQQVVZ735UQ727K5V2GB
16-01	1432	Extradite	30 chr EAM CFLTYQ PJLNBG2QPR3HTGFOXNCRDFQ7
16-01	1435	Extradite	30 chr EAM for Perform UIVOMN 7ERL6TIWSIQWP67A4BPH5TAN
16-01	1451	Extradite	30 chr EAM CFNGMS I6KAWPIUFYXH7S67I2EKJTRH
16-01	1453	Extradite	30 chr EAM for Perform UI6YK4 N6QUVMS4KMEZEMHSGB6UEGKD
16-01	1551	Extradite	30 chr EAM UIIE2A QOF343QGEHV3JO3SCDCIRHW
16-01	1640	Extradite	30 chr EAM CFNCUQ ESFVHUEUTSRMU44EVA724EPT
16-01	1643	Extradite	30 chr EAM CF6CLQ CZ54DCKCALRP25OZVXTAY2WL
16-01	1702	Extradite	30 chr EAM CFO7KC STCIPVPTKI5FNAUO4WN5RLJ2
16-01	1838	Extradite	30 chr EAM for Perform UIBDXG FXQ6IVOFFV7PFMVUTBPAGS73
16-01	2046	Extradite	30 chr EAM for Sonia? UIDQHI VBGZRF3MFKFYDSNSGF7UVLDH
16-01	2117	Extradite	30 chr EAM CFQY2W YHIWIC6GJKMA6LKA5CVFQ2PH
16-01	2133	Extradite	30 chr EAM CFSK3I OTD4LSYWXRLVELVXGHHAJST2
16-01	2238	Extradite	30 chr EAM CFFMKT XB535A4TUU3YRVYRUUQXD7UC
16-01	2240	Extradite	30 chr EAM CF737E HCNZRJLFGHQGFCEBUOS3RZA
16-01	2243	Extradite	30 chr EAM CF4WJX ACOXGREXF4JLNGH2GZQEZDKY
16-01	2303	Extradite	30 chr EAM CF623R 3ZLZQ4GJ5JJSU67M5VFP65DR
16-01	2316	Extradite	30 chr EAM CFJ3ZD 26AOI7C7F53O2F63WXNOQPYH
16-01	2318	Extradite	30 chr EAM CFDJHY BDY5DOSCBV3WSBHILVBXSIKT
16-01	2332	Extradite	30 chr EAM CFDJHY BDY5DOSCBV3WSBHILVBXSIKT
16-01	2334	Extradite	30 chr EAM CFJ3ZD 26AOI7C7F53O2F63WXNOQPYH
16-01	2336	Extradite	30 chr EAM CF623R 3ZLZQ4GJ5JJSU67M5VFP65DR
16-01	2355	Extradite	30 chr EAM CFFS7L L2PKKYCZ37IISFQMGXS2QUP
16-01	2357	Extradite	30 chr EAM CFNVEY WD32BRAXJ2BSSDOFMR2WHQF4
17-01	0219	Wool Suit	30 chr EAM CF2GGU WISJZWW3TBWOLKIYKXHINTQJ
17-01	1605	Wool Suit	49 chr EAM UICQNP RNOAURDDKWVOZ3SEUYTKI4CAAFDLS4BQNW7HN5KCGC
17-01	1759	Wool Suit	30 chr EAM CFQJTE 7KYAP3ORJ7XTWV3OS2FIYZJS
17-01	1922	Wool Suit	30 chr EAM CFBHGR SRCOMFYZI3URX3BWOKG6WTVU
17-01	2209	Wool Suit	30 chr EAM CF3ASW 3C2WZJQLS4QYOQW4KRXY3OHQ
17-01	2212	Wool Suit	30 chr EAM CFWBSG QSIR6BFWSTIZPY5DLHCDSXKG
17-01	2215	Wool Suit	30 chr EAM CFTW4X XJGZLONZ12XHDLI7W5F4RSV2
17-01	2223	Wool Suit	30 chr EAM CFN7KL I2E6KWHN5CAS6MBGJWGTGHAC5
17-01	2230	Wool Suit	30 chr EAM CF2VTF ORRHKB2R3CIILSZIG6QTJ3FV
17-01	2233	Wool Suit	30 chr EAM CFN7KL I2E6KWHN5CAS6MBGJWGTGHAC5
17-01	2236	Wool Suit	30 chr EAM CFTW4X XJGZLONZ12XHDLI7W5F4RSV2
17-01	2238	Wool Suit	30 chr EAM CFWBSG QSIR6BFWSTIZPY5DLHCDSXKG
17-01	2241	Wool Suit	30 chr EAM CF3ASW 3C2WZJQLS4QYOQW4KRXY3OHQ
17-01	2334	Wool Suit	30 chr EAM CFQMIC PY3Y4EXBT37PE25FEZFNVDLO
18-01	0912	Warm Glow	30 chr EAM UIHXJ7 HUKDY262IHI4G6S7KRNZR6B3
18-01	0921	Warm Glow	30 chr EAM CFDIUA 224BBUJWMWSCS7JE67TIKVYW
18-01	0927	Warm Glow	30 chr EAM CFZFSS 3EQ7WVJY7HIWJZQT47FZSUR
19-01	1431	Royal Ark	30 chr EAM CFLZ2F GFSXMARAEAE33V7N5EZ4IR3
19-01	1513	Royal Ark	30 chr EAM CFEPMG KNZT2NOWNKHOGFQ55HZD7C3V
19-01	1558	Royal Ark	30 chr EAM CFOOJK SC7EBDE4DO27CAI26LXTU4YH
19-01	1609	Royal Ark	30 chr EAM CFRETR 2CLXZTBEAKRTRIFYAXBYO4UX

19-01	1634	Royal Ark	37 chr EAM UIJAE2 6EGCEVYPKIRR7SNHQLVFLY2Z445MSDJ
19-01	1706	Royal Ark	37 chr EAM UIXW3W 7X5YEEUZO3FAWQAIRQAR346AK6IULQF
19-01	1733	Royal Ark	30 chr EAM CFUYBB M27CDBOAOXKGOJLHYJHBJDV3
19-01	1947	Royal Ark	132 chr EAM 3DA6A6 6J6PSCWKONO2X6SK7SETNBXYRNUZY4V6G7JNRGGGSNMKKKGMVVVVHTXJZU55UO7TN6N66YYY Y5CBX7ZISS6EDQ3QOOQWWWWA2A3RYUBRUWJ3ZJTZCHHHH7RO3J4F64
19-01	2056	Royal Ark	30 chr EAM CFH7LY 44Q247SKJPUDM7SB5NHYGZN2
19-01	2117	Royal Ark	30 chr EAM CFMHSA P7BOBK3ITE7ALLV2RAYZUJQC
19-01	2212	Royal Ark	30 chr EAM CFYVEF R6KIVBIWVBYQD5NHQBHWX2P
20-01	0038	Ambrosia	30 chr EAM CFO2HZ T4S7WQ6CVUUBNIDAPWIF7UH
20-01	0140	Ambrosia	30 chr EAM CFAMUO 4OTZGUL5YCHQ3CUCVFNY7RAI
20-01	0202	Ambrosia	30 chr EAM CFTRY4 JXGAIZWMFAKGL3D2LET6EI4F
20-01	1546	Ambrosia	30 chr EAM CFP4UN JYVB6BFK3AEKJPRMT4KLO7CY
20-01	1559	Ambrosia	30 chr EAM CFP4UN JYVB6BFK3AEKJPRMT4KLO7CY
20-01	1606	Ambrosia	30 chr EAM CFSZZI SWTMABGKGA6ZA7E2E6VXQT5S
20-01	2227	Ambrosia	30 chr EAM EQPTWY ZBMNBUXFACKR2M54N6[BY47F
21-01	0236	Grapevine	30 chr EAM EQRYDY TCRDNZGVW2PYYPTDTJPK3LOY
21-01	0526	Grapevine	30 chr EAM EQQZUY 2FER4TKHYX3QXKPLDABVTYWE
21-01	0550	Grapevine	30 chr EAM EQE4ZU 6HX65VPEZLUZKK36TNTALHUV
21-01	0552	Grapevine	30 chr EAM EQETYO FI66CAA2RAQCRR6NTPVEIF2K
21-01	0555	Grapevine	30 chr EAM EQHKY3 6WYV27WAZHNUM4NPFPCW7XBF
21-01	0601	Grapevine	30 chr EAM EQ6ZHX WWDLWC255LPCSYH6MLOPNY3S
21-01	0903	Grapevine	51 chr EAM UIBKYX TW7SQDRK43ZR6UNKC3Z422ZZ4343CXAJKJZHASJR73A2K
21-01	0907	Grapevine	55 chr EAM UIP4R7 EIHZNOK2DVSFZAFBSBQDVVJFQCDVFNXVP74UET4ENG77LIC3
21-01	1020	Grapevine	30 chr EAM EQD7VY ZPP2BAPYLW3UCQ3JMM3O6NFP
21-01	1232	Grapevine	30 chr EAM EQLTHE (nothing else)
21-01	1601	Grapevine	56 chr EAM UI2K3N FWDXHXY73VOSSPCQ3RUCTZDMJUO4JWCJNE2TZBX4IIVTWCOAE5
21-01	1621	Grapevine	30 chr EAM UISEFW SK5NLNR5PK3JX4ZVYM76FJVD
21-01	1636	Grapevine	30 chr EAM EQP42G A3OHCOMK6RDNKIR44P7CESWN
21-01	1646	Grapevine	30 chr EAM EQCWAS VKZVEETGKSNENIBQAJFYSLLR
21-01	1650	Grapevine	44 chr EAM UIS7LN PWJHJUEMBCKESDJPZJABCKEGZL2WSTVSEPBIGH
21-01	1659	Grapevine	30 chr EAM EQCWAS VKZVEETGKSNENIBEAJFYSL3R
21-01	1712	Grapevine	30 chr EAM EQ2AKS V24JX6OYEXRWS3Z6QVLOUHYS
21-01	1725	Grapevine	30 chr EAM EQ3HSB UWTXYHL24XBSRAQRTPJGWZLI
21-01	1728	Grapevine	30 chr EAM EQOKU3 FKC6RTSU74JUARWHVAWULE6X
21-01	1731	Grapevine	30 chr EAM EQVNPQ 27KNE6LPVHOZYCPWPUONZWKX
21-01	1734	Grapevine	30 chr EAM EQKOBQ CFRWPHNKUUUAJAEWLIHSNR4LT
21-01	1737	Grapevine	30 chr EAM EQCWAS VKZVEETGKSNENIBEAJFYSL3R
21-01	1818	Grapevine	30 chr EAM for Arma-22 UIN5XT TKJRDBAOTV47LQGPF3C2MUWB
21-01	1850	Grapevine	30 chr EAM EQDNXK V63TFBFN3K2RVCBJRUNC7IHA
21-01	1934	Grapevine	148 chr EAM 3DYQVI 2L2GKC2GWH2RACNJHN3XOHYJIWLVFZKWEN7NKN25KKTZSSKNNNNNUBTTIJYYH3QQEG4YQKKKK D7WJ7E4JUNEWU42I47YEH6YHUFVAVLSPKG2222HIQRW7XBT27XPLA2LT2MIWWW664DMZ3J
21-01	2008	Grapevine	148 chr EAM 3DYQVI 2L2GKC2GWH2RACNJHN3XOHYJIWLVFZKWEN7NKN25KKTZSSKNNNNNUBTTIJYYH3QQEG4YQKKKK D7WJ7E4JUNEW (stopped)
21-01	2015	Grapevine	148 chr EAM 3DYQVI 2L2GKC2GWH2RACNJHN3XOHYJIWLVFZKWEN7NKN25KKTZSSKNNNNNUBTTIJYYH3QQEG4YQKKKK D7WJ7E4JUNEWU42I47YEH6YHUFVAVLSPKG2222HIQRW7XBT27XPLA2LT2MIWWW664DMZ3J
21-01	2031	Grapevine	148 chr EAM 3DYQVI 2L2GKC2GWH2RACNJHN3XOHYJIWLVFZKWEN7NKN25KKTZSSKNNNNNUBTTIJYYH3QQEG4YQKKKK D7WJ7E4JUNEWU42I47YEH6YHUFVAVLSPKG2222HIQRW7XBT27XPLA2LT2MIWWW664DMZ3J
21-01	2101	Grapevine	148 chr EAM 3DYQVI 2L2GKC2GWH2RACNJHN3XOHYJIWLVFZKWEN7NKN25KKTZSSKNNNNNUBTTIJYYH3QQEG4YQKKKK D7WJ7E4JUNEWU42I47YEH6YHUFVAVLSPKG2222HIQRW7XBT27XPLA2LT2MIWWW664DMZ3J
22-01	0104	Describe	30 chr EAM for Shackelford UIXQI6 KTG3NREZ6PU2ZL6GVCLT6S2J
22-01	0117	Describe	30 chr EAM UIMG4D 4AQHYUOM5O7NXXZTI67X4YG6
22-01	1542	Describe	30 chr EAM EQEA4J QCABVO7NLUTVYKKJWWYRGWLC
22-01	1548	Describe	30 chr EAM EQTAGG YL4GRWDNFXWFDX2KI64F3GI
22-01	1554	Describe	30 chr EAM EQUP3B QC7EI7LZTUBFTLGWLI4R7JO
22-01	1600	Describe	30 chr EAM EQUP3B QC7EI7LZTUBFTLGWLI4R7JO
22-01	1603	Describe	30 chr EAM EQTAGG YL4GRWDNFXWFDX2KI64F3GI

22-01	1732	Describe	30 chr EAM for Shackelford UIPQTW TWCKCAVY4W4L56FYXMDUH5VN
22-01	1804	Describe	42 chr EAM UIE5HF 3F5FTNDDOIRZLLTGT2ETGZH5CAGEWJ4ZATIO
22-01	1823	Describe	30 chr EAM for Shackelford UIWD6Y 7G2EY6W4KGV3XXZFSQHVFTZ
22-01	1852	Describe	30 chr EAM EQJZFN D2AM6HVSECUSSK3AWK2BCIUF
22-01	1936	Describe	30 chr EAM for Shackelford UIKXSE DIZC5IXPWRO5HZOAF3NFGRM
22-01	2316	Describe	30 chr EAM EQLWEU 2AGW6WHYOVCZ5AAZOPUHIQZT
22-01	2326	Describe	30 chr EAM EQSAR7 DRPKZR4MZTU325CSSWZGSDJA
23-01	0256	Localize	30 chr EAM EQGBQD KSRGJ3TQ4NFWZ27JQ6EO7XGY
23-01	1234	Localize	51 chr EAM UIODDP L2EJJOFECUN5L6H2PLICULCGADCU6GXGARIHIYGFQIO35
23-01	1238	Localize	55 chr EAM UIL2LT YIJMBM42PLIA3ZUVPD4PLMZMVHPLYXCBJJD4TVGNDJYVV4SZY
23-01	1332	Localize	30 chr EAM EQZL7L XXFHC6M6PKO43E4E6MUJCSIE
24-01	1021	New Time	54 chr EAM 4EQ3IL BRMCFVC7R7A7T35XFJOFNNW3EVBQOQ76UUFFFFQURCLPEC4
24-01	1501	New Time	30 chr EAM EQXIUQ Q37QPVO4F67SO47WNJLKC432
24-01	1550	New Time	30 chr EAM EQRIRM 47CAQUQIHPV6GE5NFJ67NQZP
24-01	1554	New Time	30 chr EAM EQEYBN UYZCIE3QGS42P7L4BGYOUQRJ
24-01	1600	New Time	30 chr EAM EQEYBN UYZCIE3QGS42P7L4BGYOUQRJ
24-01	1602	New Time	30 chr EAM EQRIRM 47CAQUQIHPV6GE5NFJ67NQZP
24-01	1605	New Time	30 chr EAM EQXIUQ Q37QPVO4F67SO47WNJLKC432
24-01	1608	New Time	30 chr EAM EQOEPK UYQBRCZUJFPQVBI7LW4SJYIL
24-01	1611	New Time	30 chr EAM EQNOHN PULW2OOWJVGO6KZAPSW6Q
24-01	1630	New Time	30 chr EAM EQNOHN PULW2OOWJVGO6KZAPSW6Q
24-01	1632	New Time	30 chr EAM EQOEPK UYQBRCZUJFPQVBI7LW4SJYIL
24-01	1635	New Time	30 chr EAM EQEYBN UYZCIE3QGS42P7L4BGYOUQRJ
25-01	0651	Tailbone	30 chr EAM EQWJ27 VDWHKCZONHJQ5T4WJBE7QT24
25-01	0659	Tailbone	30 chr EAM EQNLZU HQO7AOVNYASZVBMGXJCG7K6L
25-01	1525	Tailbone	30 chr EAM EQBEKU OJ6QLVAMBMANXJ6EZ3SH4V
25-01	1535	Tailbone	30 chr EAM EQ2E7C D6RD6SQUF2P6QBUBVJW2UZGHY
25-01	1550	Tailbone	30 chr EAM EQZP6S DXMLLYZP4EZZT6SNEV4CU37A
25-01	1556	Tailbone	30 chr EAM EQF4NS unreadable
25-01	2117	Tailbone	30 chr EAM EQWBEJ 7KPQL4GZJVFYSCOGD2ELNOGF
25-01	2332	Tailbone	30 chr EAM EQUHXR IVDQZV6L3DZEM2KUTBXTB7F3
26-01	1440	Activate	30 chr EAM EQ4KEY GNT2DPXSHKCNWIT3GOKRVYOU
26-01	1530	Activate	30 chr EAM EQ4KEY GNT2DPXSHKCNWIT3GOKRVYOU
26-01	1833	Activate	30 chr EAM EQHYNA JXCCPEKSU2XQCGUJ4LBUPQL6
27-01	0908	Pleasure	51 chr EAM UI3VGX 4RLSUPYSPSURCCNO3R5PSUPFJVPSBUFBQOXKFTEFFDNV (barely readable)
27-01	0914	Pleasure	55 chr EAM UINC3M UTSBH4DXIDNZM6FVB32ID7EVOXIDDDVOB5YTLJR73A222Z7DJ (barely readable)
27-01	1353	Pleasure	30 chr EAM for Adlib UIC46V ERM2AJBDQS6MXLECALKWRLGU
27-01	1434	Pleasure	30 chr EAM EQ5IMC UBVSALLTQCF6USADNLFZGK2I
27-01	1507	Pleasure	30 chr EAM EQFGSJ PSHTLOQQUMGSLVAUMEB5IVFU
27-01	1539	Pleasure	30 chr EAM EQXMVD C75JW7CMES4R422D5KWNXA7O
27-01	1604	Pleasure	30 chr EAM EQ4U2R J3NEZB63O4ZR67UWSDHQP6YK
27-01	2053	Pleasure	30 chr EAM EQQFN7 EQLERWUBPUTTVHLDEG7P6YLS
28-01	1350	Brunette	30 chr EAM for Acorn UIVSUY G723ARDJL436EXYHBUOXK6FP
28-01	1411	Brunette	30 chr EAM for Acorn UIVFOP HGTWF4GLXJV5NWSXZXD64ZZM
28-01	1434	Brunette	30 chr EAM for Acorn UI6DNU OSRDMLFO2CXNWAGAUNLSHPNO
28-01	1807	Brunette	37 chr EAM UID4EZ OLM7B5Z6URIG3KQBH7Z2SMFB7COACPJ
28-01	1817	Brunette	30 chr EAM for Pollen-64 UIGTVC NIDN5SDJ4DDYG4GMH3PUJHYI
28-01	1846	Brunette	30 chr EAM EQUMAS CMZELEKNOFW52XUT6SF5PA7B
28-01	1923	Brunette	30 chr EAM for Acorn UIT3W3 CI3HK3QANJE4BS4PCY6HLUY
28-01	2243	Brunette	30 chr EAM for Acorn UIEFAD AQ2WNVMH4XO6E6XOF3ZSGYD
28-01	2248	Brunette	30 chr EAM for Acorn UIEFAD AQ2WNVMH4XO6E6XOF3ZSGYD
28-01	2257	Brunette	30 chr EAM for Acorn UIHUVK 7L2DJA7PLPP2XPWSJPYBONN
29-01	0902	Dysthymic	51 chr EAM UIIXM7 EIC2ZEGG6BBRIB4SMOV6NA7WRE6BQJWRBWQTDIET4ENGG
29-01	0906	Dysthymic	55 chr EAM UIAHMM 22KSNOAYTI3E6FJW5RQTIQMPWPTIHVPWDA7LTGFQIO3VWV7IP
29-01	0913	Dysthymic	55 chr EAM UIAHMM 22KSNOAYTI3E6FJW5RQTIQMPWPTIHVPWDA7LTGFQIO3VWV7IP
29-01	1232	Dysthymic	30 chr EAM EQNGEE 6ULW3MCK6DTRYLP5OM3CZFTX
29-01	1237	Dysthymic	30 chr EAM EQNGEE 6ULW3MCK6DTRYLP5OM3CZFTX
29-01	1431	Dysthymic	30 chr EAM EQHUDS DBZT6EXL6KDL2FOWVZFD7B3Z
29-01	1625	Dysthymic	30 chr EAM for Milk Machine UIAAFN G2CBWG2XBOMHZMHWBDMX4MJM
29-01	1753	Dysthymic	30 chr EAM for milk Machine UI2OVBSRGD5TLARV3MPACAY45WJEM2

29-01	1909	Dysthymic	30 chr EAM for Milk Machine UIFPHH BAAQL6GWLOYULY7MKEPHDHPU
29-01	1923	Dysthymic	30 chr EAM for Milk Machine UIVMTJ FUKD4G2MXAJ65ODBO5C4T6VM
29-01	2136	Dysthymic	30 chr EAM for Milk Machine UICDE3 OM2ULXLTQLF2DW2DGZAYSZKJ
30-01	1536	Pine Rope	30 chr EAM EQL5FS 4P36VPBOIWFG2XMPA6MSQZJU
30-01	1936	Pine Rope	30 chr EAM EQNWN E JIREYJZDR5SNHHDJK3PGBRJ7
30-01	2007	Pine Rope	30 chr EAM EQ4M3D 6KP4OZZYIWXXIK2INLNMKDBC
30-01	2017	Pine Rope	30 chr EAM EQFE6Z FRJ22ZKVRQP7LOCJU6JGDQCL
30-01	2029	Pine Rope	30 chr EAM EQFE6Z FRJ22ZKVRQP7LOCJU6JGDQCL
30-01	2048	Pine Rope	30 chr EAM for ???-67 UI3KU7 FUOSC53MKF3WI63Y7WDTTCO5
30-01	2059	Pine Rope	30 chr EAM EQFE6Z FRJ22ZKVRQP7LOCJU6JGDQCL
30-01	2059	Pine Rope	30 chr EAM EQZYPZ OZOAY6U22KJYD35VCQBNJLDR
30-01	2130	Pine Rope	30 chr EAM EQFE6Z FRJ22ZKVRQP7LOCJU6JGDQCL
30-01	2159	Pine Rope	30 chr EAM EQFE6Z FRJ22ZKVRQP7LOCJU6JGDQCL
30-01	2249	Pine Rope	59 chr EAM UIOKJU FYRH7G5X2WMQPQS3A2S53FRSWV7OF72HKPE52VXJT76HYPQQX226C
30-01	2254	Pine Rope	37 chr EAM UIVG4R NM6UX7WECODB4WCPNDZ2Q6EEKJELODV
31-01	0412	Paid Off	30 chr EAM EQ5YXW OJF3TVGVFTV4JOVAOLRXSHG2
31-01	1104	Paid Off	30 chr EAM for Crowd Pleaser UIO3QA SVV2I7D44NZTM6HCOJ3KYPXF
31-01	1116	Paid Off	30 chr EAM for Crowd Pleaser UIPRKT LJJISTSMB2F5LONGYV72FMYH
31-01	1130	Paid Off	30 chr EAM for Crowd Pleaser UI47RM 7Z4TG47GM25OADG7TYGPRIPM
31-01	1244	Paid Off	30 chr EAM for Crowd Pleaser UIMBUA RUCTK7MRMUNAVIIOSNHXBOLV
31-01	1259	Paid Off	30 chr EAM for Crowd Pleaser UIGMBF Y2DR4MWSYWFYSYJIE3FNST3BG
31-01	1546	Paid Off	30 chr EAM EQ2JRX NVW2MLJJNO4VPWMBEGWVHZ6J
31-01	1600	Paid Off	30 chr EAM EQ2JRX NVW2MLJJNO4VPWMBEGWVHZ6J
31-01	1603	Paid Off	30 chr EAM EQLBBH LK73RC3UXESDVCAPYDQZHITM
31-01	1615	Paid Off	30 chr EAM EQZ42F CAT2JJHWXQVPI3XPKSCIB46N
31-01	1629	Paid Off	30 chr EAM EQGEOT 7ZODZGZWRQQLVRWDB3YUBHVD
31-01	1632	Paid Off	30 chr EAM EQZ42F CAT2JJHWXQVPI3XPKSCIB46N
31-01	1634	Paid Off	30 chr EAM EQLBBH LK73RC3UXESDVCAPYDQZHITM
31-01	2222	Paid Off	30 chr EAM EQOCVZ EICCBXJV66E6HF24KBCAFDHI
31-01	2225	Paid Off	30 chr EAM EQVAVK SESS343M7T4RXBT63NWILTPD
31-01	2232	Paid Off	30 chr EAM EQMHJE 6CLJ7UVOOOA7SNJJXV3JODBX
31-01	2237	Paid Off	30 chr EAM EQMHJE 6CLJ7UVOOOA7SNJJXV3JODBX
31-01	2342	Paid Off	30 chr EAM EQSMTO HJW3W32GR7YYX4WQ4S6X75XM
31-01	2345	Paid Off	30 chr EAM EQSMTO HJW3W32GR7YYX4WQ4S6X75XM
31-01	2350	Paid Off	30 chr EAM EQOMPH RVND3JQV2AVPUDDZ4O6ETCUV

## RUSSIAN MILITARY TRANSCRIPTS

Excerpts from messages submitted by AB, DK2OM, Gwr, WP3, F5JBR, JU, JPL

RAF volmet on 5450 kHz was disturbed by a long idling FSK 50/200 signal of the Russian navy in Sevastopol.

Logged on 04-12 by DK2OM





## Strategic messages

5373 kHz, 06-01, 1213 UTC	XXX XXX ONG4 ONG4 08057 ZhRECOSHtAT 2704 0713 K
8508//14411 kHz, 09-01, 1115 UTC	RDL: XXX XXX WEGI WEGI 37558 20942 SYROZAEM 4118 4557
8508//14411 kHz, 09-01, 1229 UTC	RDL: XXX XXX WEGI WEGI 81661 55274 TKAÖOSPIÖ 0682 0798 07678
7678 kHz, 09-01, 1119 UTC	XXX XXX MFT5 MFT5 48494 INDOBXEF 9085 3728
5373 kHz, 10-01, 1015 UTC	XXX XXX ONG4 ONG4 31820 MALEWAN'E 0266 6775 K
5373 kHz, 10-01, 1034 UTC	XXX XXX ONG4 ONG4 01857 NEOBRATIMYJ 6758 4601 K
5373 kHz, 15-01, 1001 UTC	XXX XXX ONG4 ONG4 00983 KWITOKAIK 8684 7182 K
5431 kHz, 15-01, 1230 UTC	XXX XXX DAHJ DAHJ 46960 ZAMAL'OWANYJ 6012 K
4983 kHz, 20-01, 1130 UTC	XXX XXX WEGI WEGI 72868 SEJFOSGON 2736 1870 K *)
7422 kHz, 23-01, 0950 UTC	RIT: Navy HQ Severomorsk: XXX XXX VD9B VD9B 26416 STENOGRAP 6956 5926 K
7422 kHz, 23-01, 1018 UTC	RIT: Navy HQ Severomorsk: XXX XXX VD9B VD9B 15373 SARAJNYJ 1251 1063 K
7422 kHz, 23-01, 1033 UTC	RIT: Navy HQ Severomorsk: XXX XXX VD9B VD9B 28819 NATELXNYJ 8985 3418 K
7422 kHz, 23-01, 1036 UTC	RIT: Navy HQ Severomorsk: XXX XXX RLO RLO ELASTIÖNYJ 01 1310 320 090 1328 K
7422 kHz, 23-01, 1040 UTC	RIT: Navy HQ Severomorsk: XXX XXX VD9B VD9B 28074 KATET 8395 1598 K
7422 kHz, 23-01, 1309 UTC	RIT: Navy HQ Severomorsk: XXX XXX VD9B VD9B 46055 OJKUME 8344 0316 K
7422 kHz, 23-01, 1320 UTC	RIT: Navy HQ Severomorsk: XXX XXX VD9B VD9B 09959 PORIK 0616 8331 K
3273 kHz, 26-01, 0845 UTC	XXX H8AC 8QLO 7UID 06149 29741 32973 POHERNYJ 8981 7296 K
6881 kHz, 27-01, 0753 UTC	XXX VPX7 12469 DOSXE 7705 7334 K
5759 kHz, 27-01, 0757 UTC	XXX VPX7 12469 DOSXE 7705 7334 K
5793 kHz, 27-01, 0800 UTC	XXX WEGI 83689 RUSOWOLOSJ 9377 2369 K
5456 kHz, 30-01, 1000 UTC	XXX XXX C1OB C1OB 43495 SPEKULYaCIYa 3298 7572 UGRYZENIE 8727 5371 PROMEZHNOST' 3316 7046 RYaDOSBYT 8463 4298 K
5386 kHz, 30-01, 1013 UTC	XXX XX WLHN WLHN 55328 20032 13071 BUMAZhEChKA 5285 0667 K
5363 kHz, 30-01, 1107 UTC	XXX XXX ONG4 ONG4 89281 KOKOFAWN 0128 2992 K
8114 kHz, 31-01, 1032 UTC	XXX XXX 69BV 69BV 02575 DVINOZUEK 7559 1294
8114 kHz, 31-01, 1036 UTC	XXX XXX CSWY CSWY 8761 PRIPARNYJ 6530 8132

\*) Morse sounds like an old telephone ringer

<http://priyom.org/media/240970/wegi-4983cw,0120-1130z-msg-bygwraspe.ogg>

## Monolith stations

### S28 Buzzer - Western Military District

9250 kHz, 26-01, 0854 UTC	Buzzer channel marker. Harmonic of 4625 kHz
9250 kHz, 31-01, 0901 UTC	Buzzer channel marker. Harmonic of 4625 kHz

### S30 Pip - Southern Military District

5448 kHz, 06-01, 1328 UTC	ShchT30, CIHS, Z7PM, S7ZhG, Z'1B, CI9V, ZhSK4, HZ5T, 5FSShch, 8MUO
5448 kHz, 10-01, 1004 UTC	8S1Shch 86510 ZYeRNOVKA 1883 2883
5448 kHz, 10-01, 1025 UTC	8S1Shch 39194 KYeRSANTIT 5972 3568
5448 kHz, 10-01, 1206 UTC	61HZh ZBIL L7O5 V'Z' NLCYe LI27 V2MZ SB7Z 'O6P Y8VM
5448 kHz, 10-01, 1227 UTC	8S1Shch Proverka vyzova 4321 1234 <sup>1)</sup>
5448 kHz, 15-01, 0600 UTC	8S1Shch SOCIOLOG 9679
5448 kHz, 15-01, 0953 UTC	8S1Shch 86367 LOMOZUDA 1705 4501
5448 kHz, 15-01, 1056 UTC	ShchT30 CIHS Z7PM S7ZhG Z'1b CI9V ZhSK4 HZ5T 5FSShch 8MUO
5448 kHz, 15-01, 1200 UTC	8S1Shch 11752 97342 ZAIROGRUZ 1160 9813 BAZOMAK 9359 3354 No follow-on message from S32, ONG4 or N'ZhJ
5448 kHz, 20-01, 1026 UTC	8S1Shch 77076 NAKLYeP 7522 2550
6922 kHz, 06-01, 1205 UTC	8S1Shch 89514 NYePRYeMYeNNYJ 3882 5998
5448 kHz, 29-01, 1157 UTC	8S1Shch KOTOPUH 105 <sup>2)</sup>
3756 kHz, 29-01, 1412 UTC	F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS

<sup>1)</sup> The proverka vyzova (call check) message was sent across the Southern Circular Network.

<sup>2)</sup> This message was sent by S30, S32 and N"ZhI

30-01: Big training day for Southern district from the looks of it, most of the Pip messages were read on 5448 USB by a female operator while a male operator read at the same time on 6922 USB, though they do usually simulcast between 5448 and a choice of

6913/6922/7056/7124 I've never witnessed two separate operators doing it – you even ask the female operator ask “gotov?” (“ready?”) before they start reading the 1007z message. (Source: Gwarpse)

5448 kHz, 30-01, 0923 UTC 8S1Shch 89686 ZhLOBOKROT 9613 5316. Female operator  
6922 kHz, 30-01, 0923 UTC 8S1Shch 89686 ZhLOBOKROT 9613 5316. Male operator  
5448 kHz, 30-01, 0929 UTC 8S1Shch 46463 JOTOGROG 2943 9732. Female operator  
6922 kHz, 30-01, 0929 UTC 8S1Shch 46463 JOTOGROG 2943 9732. Male operator  
5448 kHz, 30-01, 0941 UTC 8S1Shch 11484 KOBYeLYeK 3652 0637. Female operator  
6922 kHz, 30-01, 0941 UTC 8S1Shch 11484 KOBYeLYeK 3652 0637. Male operator  
5448 kHz, 30-01, 0947 UTC 8S1Shch 38931 BANTORAJ 9179 7136. Female operator  
6922 kHz, 30-01, 0947 UTC 8S1Shch 38931 BANTORAJ 9179 7136. Male operator  
5448 kHz, 30-01, 0947 UTC 8S1Shch 29129 KOLONIALIZM 7839 0752. Female operator  
6922 kHz, 30-01, 0947 UTC 8S1Shch 29129 KOLONIALIZM 7839 0752. Male operator  
5448 kHz, 30-01, 1314 UTC 8S1Shch 22635 VUKOSAK 9162 9816  
5448 kHz, 30-01, 1119 UTC 8S1Shch 50103 MYeTYeN'Ye 4303 5812. Female operator  
6922 kHz, 30-01, 1119 UTC 8S1Shch 50103 MYeTYeN'Ye 4303 5812. Male operator  
5448 kHz, 30-01, 1239 UTC 8S1Shch 20677 NORDOSYeT 3463 4933. Female operator  
6922 kHz, 30-01, 1239 UTC 8S1Shch 20677 NORDOSYeT 3463 4933. Male operator

### S32 Squeaky Wheel - Southern Military District

5473 kHz, 06-01, 1210 UTC Al'fa-45 82601 NYeUSTANNYJ 8796 4311 (CW XXX version on 5360 kHz)  
5473 kHz, 10-01, 1030 UTC Al'fa-45 78299 MATChOLYaZG 2495 8270  
5473 kHz, 10-01, 1009 UTC Al'fa-45 50808 KAYuKOKOSVh 4019 2802  
5473 kHz, 10-01, 1232 UTC Al'fa-45 Proverka vyzova 4321 1234 <sup>1)</sup>  
3828 kHz, 15-01, 0603 UTC Al'fa-45 SOCIOLOG 9679  
5473 kHz, 15-01, 0959 UTC Al'fa-45 81692 NYeRAZ'YeMNYJ 5063 8603  
5473 kHz, 20-01, 1031 UTC Al'fa-45 43335 MASHYeROChKA 8497 7768  
5473 kHz, 28-01, 1320 UTC Stazher-29, Leggina-38, Chulyob-60, Dzhigit-46, Fontan-34, Ruzh'e-26, Burka-37, Nevka-26  
<http://priyom.org/media/241338/s32-5473usb-20200127-1321z-dlya-bygwraspe.ogg>  
5473 kHz, 29-01, 1202 UTC Al'fa-45 KOTOPUH 105 <sup>2)</sup>

<sup>1)</sup> The proverka vyzova (call check) message was sent across the Southern Circular Network.

<sup>2)</sup> This message was sent by S30, S32 and N"ZhI

### 30-01: Big training day for Southern district

5473 kHz, 30-01, 0928 UTC Al'fa-45 65807 GLOBOID 7845 3256  
5473 kHz, 30-01, 0933 UTC Al'fa-45 32445 ZhRYeCOShTAT 2589 9874  
5473 kHz, 30-01, 0944 UTC Al'fa-45 58792 OBYeSCYeN'YeN'Ye 1124 9975  
5473 kHz, 30-01, 0951 UTC Al'fa-45 02812 ZUBRYeNIYe 1221 6549  
5473 kHz, 30-01, 1012 UTC Al'fa-45 42439 MOROShKA 5775 7151  
5473 kHz, 30-01, 1123 UTC Al'fa-45 44175 BASKOHVAT 5748 9952  
5473 kHz, 30-01, 1243 UTC Al'fa-45 15072 MYeHOBRYaK 4778 8446  
5473 kHz, 30-01, 1317 UTC Al'fa-45 62798 BOBOPOL 4931 4625

### Vega-33 / N'ZhJ - Southern Military District

5372 kHz, 06-01, 1227 UTC N'ZhJ 83690 NAMORDNIK 7828 2826  
5372 kHz, 10-01, 1032 UTC N'ZhJ 40924 MARTOSRAM 2864 3798  
5372 kHz, 10-01, 1048 UTC N'ZhJ 69105 KUBODON 2199 3084  
5372 kHz, 10-01, 1250 UTC N'ZhJ Proverka vyzova 4321 1234 <sup>1)</sup>  
5372 kHz, 15-01, 1015 UTC N'ZhJ 81564 GRUMOLIN' 6070 6300  
5372 kHz, 20-01, 1050 UTC N'ZhJ 48120 LOGOSIM 6250 7189  
5372 kHz, 29-01, 1220 UTC N'ZhJ KOTOPUH 105 <sup>2)</sup>

<sup>1)</sup> The proverka vyzova (call check) message was sent across the Southern Circular Network.

<sup>2)</sup> This message was sent by S30, S32 and N"ZhI

### 30-01: Big training day for Southern district

5372 kHz, 30-01, 0954 UTC N'ZhJ ??886 KOLOV'YuN 0810 8009  
5372 kHz, 30-01, 0954 UTC N'ZhJ 14814 BORNVOGIB 1286 8620

5372 kHz, 30-01, 1144 UTC N'ZhJ 70530 ZhYeSTKIJ 6570 9187  
5372 kHz, 30-01, 1303 UTC N'ZhJ 27503 IMIDORUR 7301 6544  
5372 kHz, 30-01, 1341 UTC N'ZhJ 42494 KRYePOPLAC 8154 6633

### Baron-78 - Southern Military District

Besides some morse, S30, S32 and Vega-33/N'Zhl, Gwarpse also logged interesting other comms from the Southern District. He also heard a radio check on 1 Jan from the Pip and also from Baron-78 (4940u day/3850u night)

#### 3850 kHz, 06-01, 1411 UTC

Tros-28 Ya Baron-78 - Proverka svyazi, priyom

#### 4940 kHz, 13-01, 1009 UTC

Baron-78 96762 CIANPLAV 6590 1467

#### 3850 kHz, 15-01, 1600 UTC

Tros-28 Ya Baron-78 Baklan 38230 MYeROChKA 9516 6644 vremya 19 00 priyom

Baron-78 channel marker was on 4881 between 1030z and 1600z instead of usual day freq 3850.

It also usually switches to night frequency around 1400z, not 1600z.

#### 4940 kHz, 20-01, 1423 UTC

(Baron-78) 1-10 test count

#### 3850 kHz, 23-01, 0415 UTC

Tros-28 Ya Baron-78. Vozdukh Baklan. Ob'yavlena Komanda 125. Vremya signala 0700. Polucheny dolozhit'. Priyom.

Translation:

Tros-28 I am Baron-78. Vozduh Baklan. Command 125 announced. Signal time 7 hours 00 minutes. Received to report, over.

Recording: <http://priyom.org/media/241165/baron78-3850usb,0123-041501z-msg-recovered.ogg>

#### 3850 kHz, 28-01, 1402 UTC

Tros-28 Ya Baron-78 Baklan 06695 MYeROCHKA 9516 6644

Same message as January 15th but with different header group

## Russian military voice transmissions

RMv – Russian Military

#### 7060 kHz, 01-01, 0822 UTC, i.p.

...YO ORZhDO TsKNKhSh RPROCh OKhShchUA AYuYaML PBYaKP PPTOV FMVYaZh PYaPVT Razdel

47 328 1 1100 473 Razdel 071 Razdel

11919 02375 37228 38823 70421 65376 07960 61203 96172 34494

19386 70988 40704 89205 84780 27180 24777 89909 41558 11511

82406 42112 18407 59305 74519 68861 01026

Priyom

#### 7060 kHz, 01-01, 0826 UTC

1 2 3 4 5 6 7 8 9 10

Retsept 04, ya Svistok 53. Primate radiogrammu. Priyom

Retsept 04, ya Svistok 53. Primate radiogrammu. Priyom

Svistok 53 746 26 1 1055 746 Razdel 071 Razdel

11919 27684 59134 40872 49770 50760 60092 67270 11345 44594

21472 48454 61521 82354 41700 75230 52207 92127 99211 16446

17748 29069 05608 55066 01024

Priyom

#### 5045 kHz, 21-01, 1415 UTC

Caplya, Caplya, Ya Znamya, primate radiogrammu. Signal 1844 signal 1844. 16 chasov 15 minut konec svyazi

Note that the time is not Moscow time but the Kaliningrad timezone.

[http://priyom.org/media/241027/znamya-5045usb,0121-1415z-for\\_caplya-bygwrspc.ogg](http://priyom.org/media/241027/znamya-5045usb,0121-1415z-for_caplya-bygwrspc.ogg)

Translation:

Caplia, Caplia, I am Znamya. Please receive a radiogram. Signal 1844 signal 1844. 16 hours 15 minutes. End of communication.

**5850 kHz, 27-01, 0702 UTC**

FARM-59 clg FARM-69, ATOM-72, KAM-04

RNV – Russian Navy

**4940.5 kHz, 08-01, 0838 UTC, LSB**

GARANTIYA: Baltic Fleet, 1st Guards Separate Communications Regiment

GARANTIYA (RIQ88) clg GORNILA (RAI63) Ccomms checks

**3818.5 kHz, 26-01, 1835 UTC, USB**

GVOZDIKA: Black Sea Fleet HQ, Sevastopol

GVOZDIKA (RCV) clg CHIBRIVA (RMNW) Comms checks

## **Russian military morse transmissions**

M32 - Russian Military CW Stations

**13971 kHz, 08-01, 0906 UTC, i.p.**

FSAS

ZZV K

VVVVVV ZZV K

ZSL ? K

NR 223 ')? K

NR 223 ')? K

NR 223 ZSL? K

ZZV K

ZKM? K

LKKKLLKMKMVLMMKMMMMMMVKKM

GMWMO

VVVVVVVVVV K

VVVVVV K

ZZD2 ZZD? K

ZZV ZSL? K

XXX ZKM? K

OK ZZU 11892 K

**12152 kHz, 16-01, 0815-0830 UTC**

607V DE SJHO K. 607V DE SJHO K

SJHO K SJHO QSG2? K

SJHO 38 20 16 1110 38 = 850

PPPPP LASUA ARFBS MAEHQ MWSNC MAEHQ MWSNC MAEHQ MWSNC NMHTD

JSFFT DOAQI EÖOIZh LHJHA LKÖSD DLFLÖ AWNTQ GDMWM ÄYPÄI

= 934 21 16 1113 934 = 850 =

12039 49694 90488 31282 68938 12870 5T526 88181 32114 60631

10564 48220 89013 29808 67463 11396 49051 92983 30639 16019 K

FLSQ DE SJCH EEEEE FLSQ DE SJHO K

SJHO QSG2? K

SJHO 063 23 16 1120 063 = 749 =

PPPPP CHNAR CKTOW UÖAOG BQM CB ÖAOG BQM CB UÖAOG BQM CB PAGQÖ LLÖBS

EFKMHD WZHHI 2IÖIH LLLVV DFOJ ÖLVQF WHAOI ÖJWPU CCJQK DMHML ÄYPWÄ

= 770 23 16 1121 770 = 749 =

1160 64346 11416 55348 11832 55764 12248 56179 12664 56595

13079 60149 10357 54289 98220 45281 92360 36293 83362 30433

77502 16021 K

M32a - Russian Navy

**5929 kHz, 26-01, 1002 UTC. RIT Sevromorsk wkg RLO**

QTC SML 178 34 26 1258 178 =

RADIOPROGNOZ 26010 63003 40001 00001 01218 30010 00002 01218 40011 00005 01218 50015 00006 01218 50014 00102 01218  
40010 00001 01824 30009 00002 01824 30010 00005 01824 40014 00006 01824 40012 00102 01824 30010 AR

**3356 kHz, 26-01, 1400 UTC**

RGR99 wkg REO4 RGR49 RGR87 RGR88 RGR89 RGR90 RGR91 RGR92 RGR93 RGR94 RGR95 RGR96 RGR97 RGR98

**3356 kHz, 27-01, 1400 UTC**

RGR99 wkg REO4 RGR49 RGR87 RGR88 RGR89 RGR90 RGR91 RGR92 RGR93 RGR94 RGR95 RGR96 RGR97 RGR98

**3395.5 kHz, 26-01, 1825 UTC. RMNW wkg RCV (**

QTC SML 394 18 26 2100 394 =

FOR RJE73 RJH45 =

26211 99446 10348 43998 00706 10030 40250 52021 70200 80000 22212 00070 29901 88000 80000 26015 =  
AR RMNW K

**3395.5 kHz, 27-01, 1814 UTC. RMNW wkg RCV**

QTC SML 312 18 27 2100 312 =

FOR RJE73 RJH45 =

27181 99442 10382 43998 01606 10060 40220 56021 70200 80000 02232 00070 29902 88000 80000 27015 =  
AR RMNW K

**3395.5 kHz, 28-01, 1842 UTC. RMNW wkg RCV**

QTC SML FOR RJE73 RJH45 =

28181 99437 10393 43/97 91408 10100 40141 56020 72155 22232 00090 29902 88000 80000 28014 =  
AR RMNW K

M32b - Russian Naval Air Transport

**8816 kHz, 03-01, 0712 UTC**

RJC38 RJF94 DE 75025 QTO 0700 QRD XLWF XLMD QBD 0600 QRE 0920 K

QQL ULPE 0755 QBG 250 K - QAY XLPB (ULPB?) 0817 QBD 0430 QRE XLWF 0910 K

QQM XLWF 0906 SK

**8816 kHz, 03-01, 0722 UTC**

RJF94 RJC38 DE 30684 QTO 0705 QRD XLWF XLMD QRE 1005 QBD 0500 K

QQL ULPE 0818 QBD 0400 QBG 6400 K

QAY XLPB 0905 QBD 0300 QRE XLWF 0955 K

QQM XLWF 0955 SK

**8816 kHz, 03-01, 0800 UTC**

RJF94 DE RJC38 RPT FM 75025 K

**8816 kHz, 03-01, 0800 UTC**

RJC38 DE RJF94 RPT FM 75025 QQL ULPE 0756 QBG 250 K

**8816 kHz, 03-01, 1051 UTC**

RJC38 RJF94 DE 75025 QTO 1040 QRD URKE XLWF QBD 0600 QR 1340 K

QTR 1200 QTH 15245 13929 QBG 250 K

QTR 1255 QTH 14742 14115 QRE URKE 1330 K

QQM URKE 1330 SK

**8816 kHz, 03-01, 1110 UTC**

RJC38 RJF94 DE 30684 QTO 1105 QRD XRKE XLWF QRE 1445 QBD 0500 K

QTH 15583 13786 QTR 1210 QBD 0400 QBG 6100 K

QTH 15143 14011 QTR 1310 QBD 0300 QBG 6400 K

QQL XRRM 1403 QBD 0200 QRE XRKE 1445 K

QQM XRKE 1455 SK

**8816 kHz, 08-01, 0705 UTC**

RJC38 RJF94 DE 75025 QQL ULPE 0659 QBG 230 K  
QQL ULWC 0759 QBD 0400 QRE XUMO 0845 K  
QQM XUMO 0849 SK

**8816 kHz, 08-01, 1018 UTC**

RJC38 RJF94 DE 75025 QTO 1012 QRD XRFB XUMO QBD 0600 QRE 1310 K  
QTR 1105 QTH 15137 14014 QBG 250 K  
QTR 1205 QTH 14652 13845 QRE XRFB 1300 K  
QQM XRFB 1305 SK

**8816 kHz, 09-01, 0855 UTC**

RJF94 RJC38 DE 08126 QTO 0845 QRD XRFA XLMD QRE 1445 QBD 0900 K  
QTH 16456 13429 QTR 0944 QBG 7600 K  
QTH 16003 13728 QTR 1045 QBG 7900 K  
QTH 15453 13804 QTR 1148 QBD 0500 K  
QQL XUOI 1245 QBD 0400 K  
QTH 14604 13754 QTR 1346 QBD 0300 QRE XRFA 1430

**8816 kHz, 09-01, 1415 UTC**

RJC94 (!) DE 84103 QTO 1400 QRD XLWF XRKE QBD 0430 K  
QTH 15016 14059 QBD 0330 K  
QTH 15613 13800 QBD 0230 K

**8816 kHz, 09-01, 1422 UTC**

RJF94 DE 84100 QTO 1405 QRD XLWF XRKE QRE 1715 QBD 0530 K  
QTH 15046 14052 QBD 0420 K  
QTH 15713 13801 QBD 0320 K

**8816 kHz, 09-01, 1535 UTC**

RJC38 RJF94 DE 75025 QTO 1527 QRD XUMO XRFA QBD 0600 QRE 1815 K  
QTR 1626 QTH 14642 13840 QBG 260 K  
QTH 15133 14048 QRE XUMO 1835 K  
QTR 1626 QTH 14642 13840 QBG 260 K  
QTR 1738 QTH 15133 14048 QRE XUMO 1835 K

**8816 kHz, 09-01, 2012 UTC**

RJC38 RJF94 DE 75025 QTO 2000 QRD XLMD XUMO QBD 0600 QRE 2300 K  
QAY ULWC 2100 QBG 260 K

**8816 kHz, 10-01, 0720 UTC**

RJC38 RJF94 DE 30684 QQL ULPE 0717 QBD 0330 QBG 5500 K  
QTH 16112 13223 QTR 0815 QBD 0230 QRE XLLV 0845 K  
QQM XLLV 0845 SK

**8816 kHz, 10-01, 0730 UTC**

RJF94 RJC38 DE 08126 QTO 0715 QRD XRKE XRFA QRE 0810 QBD 0500 K  
QQM XRKE 0822 SK

**8816 kHz, 10-01, 0957 UTC**

RJC38 RJF94 DE 30684 QTO 0945 QRD XLWF XLLV QRE 1115 QBD 0500 K  
QQM XLWF 1105 SK

**8816 kHz, 10-01, 1043 UTC**

RJF94 RJC38 DE 08126 QTO 1030 QRD XLWF XRKE QRE 1400 QBD 0700 K  
QTH 14925 14122 QTR 1130 QBG 6100 K  
QTH 15312 13839 QTR 1233 QBG 6100 K  
QTH 15702 13759 QTR 1326 QBD 0330 K  
QQM XLWF 1401 SK

**8816 kHz, 10-01, 1426 UTC**

RJC38 RJF94 DE 30684 QTO 1410 QRD XLMD XLWF QRE 1730 QBD 0500 K  
QAY XLPB 1512 QBD 0400 QBG 5500 K  
QQL ULPE 1607 QBD 0300 K  
QQM XLMD ..SK

**8816 kHz, 10-01, 1530 UTC**

RJF94 RJC38 DE 08126 QTO 1519 QRD XLMD XLWF QRE 1750 QBD 0730 K  
QTH 16324 13538 QTR 1613 QBG 6700 K  
QQM XLMD

**8816 kHz, 13-01, 0723 UTC**

RJC38 RJF94 DE 75017 QTO 0713 QRD URKE XLMD QBD 0800 QRE 1330 K  
QQL ULPE 0805 QBG 210 K  
QQL ULWC 0905 QBD 0600 K  
QAY XUWE 1011 QBG 230 K  
QAY URRP 1115 QBD 0400 QRE URKE 1140 K  
QQM URKE 1138 SK

**8816 kHz, 13-01, 1311 UTC**

RJC38 RJF94 DE 75017 QTO 1301 QRD XLWF URKE XLWF URKE QBD 0700 QRE 1530 K  
QTR 1404 QTH 15015 14051 QBG 240 K  
QTR 1504 QTH 15454 13811 QRE XLWF 1605 K  
QQM XLWF 1602 SK

**8816 kHz, 21-01, 0818 UTC**

RJF94 RJC38 DE 08125 QQM XLAA 0816 SK

**8816 kHz, 21-01, 0858 UTC**

RJC38 RJF94 DE 30684 QTO 0845 QRD XUYK XODS QRE 1245 QBD 0500 K  
QTH 17721 17819 QTR 0945 QBG 6100 K  
QTH 17441 16919 QTR 1146 QBG 6100 K  
COR QTH 17441 16919 QTR 1046 QBG 6100 K  
QTH 17124 16232 QTR 1152 QBD 0200 QRE XUYK 1315 K  
QTH 16833 16345 QTR 1245 QBD 0110 K  
QQM XUYK 1315 SK

**8816 kHz, 21-01, 0938 UTC**

RJF94 RJC38 DE 08125 QTO 0928 QRD XLWF XLAA QRE 1050 QBD 0500 K  
QQM XLWF 1045 SK

**8816 kHz, 21-01, 1454 UTC**

RJC38 RJF94 DE 30684 QTO 1443 QRD XLMD XLYK QRE 1910 QBD 0530 K  
QTH 16745 1560. QTR 1546 QBG 6100 K

M32c - Russian Air Force
--------------------------

**2737 kHz, 06-01, 1840 UTC. REA4 weather bulletin:**

REA4 REA4 = 06170 99900 05160 20069 85998 83103 11006 21027 70322 88010 = REA4 K

## LOGS SECTION

The logs are sorted on code, date and time

Code	Freq	Date	UTC	Day	Veld0	mode	ctrb
---	4770	3-1	2141	Fri	Alarm channel marker	USB	(AB)
---	7055	8-1	0813	Wed	Russian-Ukrainian radio war	LSB	(AB)
---	7055	8-1	1322	Wed	Russian-Ukrainian radio war	LSB	(AB)
---	7050	8-1	1322	Wed	Russian-Ukrainian radio war	LSB	(AB)
---	7055	9-1	1050	Thu	Russian-Ukrainian radio war	LSB	(AB)
---	7050	9-1	1050	Thu	Russian-Ukrainian radio war	LSB	(AB)
---	5372	10-1	1032	Fri	N'ZhJ 40924 MARTOSRAM 2864 3798	USB	(Gwr)
---	5372	10-1	1048	Fri	N'ZhJ 69105 KUBODON 2199 3084	USB	(Gwr)
---	7050	10-1	1050	Fri	Russian-Ukrainian radio war	LSB	(AB)
---	7055	10-1	1050	Fri	Russian-Ukrainian radio war	LSB	(AB)
---	5372	10-1	1250	Fri	N'ZhJ Proverka vyzova 4321 1234	USB	(Gwr)
---	7050	10-1	1720	Fri	Russian-Ukrainian radio war. Obscene waterfall text	LSB	(AB)
---	4940	13-1	1009	Mon	Baron-78 96762 CIANPLAV 6590 1467	USB	(Gwr)
---	7055	15-1	0828	Wed	Russian-Ukrainian radio war	LSB	(AB)
---	5372	15-1	1015	Wed	N'ZhJ 81564 GRUMOLIN' 6070 6300	USB	(Gwr)
---	3850	15-1	1600	Wed	Tros-28 Ya Baron-78 Baklan 38230 MYeROChKA 9516 6644 vremya 19 00 priyom	USB	(Gwr)
---	7055	16-1	0643	Thu	Russian-Ukrainian radio war	LSB	(AB)
---	7055	16-1	1056	Thu	Russian-Ukrainian radio war	LSB	(AB)
---	5372	20-1	1050	Mon	N'ZhJ 48120 LOGOSIM 6250 7189	USB	(Gwr)
---	4940	20-1	1423	Mon	(Baron-78) 1-10 test count	USB	(Gwr)
---	7055	22-1	0825	Wed	Russian-Ukrainian radio war	LSB	(AB)
---	3850	23-1	0415	Thu	Tros-28 Ya Baron-78. Vozdukh Baklan. Ob"yavlena Komanda 125. Vremya signala 0700. Polucheny dolozhit'. Priyom.	USB	(Gwr/Arg)
---	7055	23-1	1029	Thu	Russian-Ukrainian radio war	LSB	(AB)
---	7050	23-1	1029	Thu	Russian-Ukrainian radio war	LSB	(AB)
---	7055	24-1	0725	Fri	Russian-Ukrainian radio war	LSB	(AB)
---	7055	24-1	1400	Fri	Russian-Ukrainian radio war	LSB	(AB)
---	5473	28-1	1320	Tue	Stazher-29, Leggina-38, Chulyob-60, Dzhigit-46, Fontan-34, Ruzh'e-26, Burka-37, Nevka-26	USB	(Gwr)
---	3850	28-1	1402	Tue	Tros-28 Ya Baron-78 - Baklan - 06695 MYeROCHKA 9516 6644	USB	(Gwr)
---	7055	28-1	1730	Tue	Russian-Ukrainian radio war. Obscene waterfall text	LSB	(AB)
---	7058	28-1	1746	Tue	Russian-Ukrainian radio war	LSB	(AB)
---	4770	28-1	2049	Tue	Alarm channel marker	USB	(AB)
---	7055	29-1	0823	Wed	Russian-Ukrainian radio war	LSB	(AB)
---	5372	29-1	1220	Wed	N'ZhJ KOTOPUH 105	USB	(Gwr)
---	5372	30-1	0954	Thu	N'ZhJ ??886 KOLOV'YuN 0810 8009	USB	(Gwr)
---	5372	30-1	0954	Thu	N'ZhJ 14814 BORNOVGIB 1286 8620	USB	(Gwr)
---	7055	30-1	1044	Thu	Russian-Ukrainian radio war	LSB	(AB)
---	5372	30-1	1144	Thu	N'ZhJ 70530 ZhYeSTKIJ 6570 9187	USB	(Gwr)
---	5372	30-1	1303	Thu	N'ZhJ 27503 IMIDORUR 7301 6544	USB	(Gwr)
---	5372	30-1	1341	Thu	N'ZhJ 42494 KRYePOPLAC 8154 6633	USB	(Gwr)



---	7055	31-1	0624	Fri	Russian-Ukrainian radio war	LSB	(AB)
DPRK	12588	6-1	0603	Mon	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	12222	7-1	1321	Tue	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	12203	28-1	1304	Tue	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
DPRK	11840	31-1	0630	Fri	North Korean diplo i.p.	DPRK-ARQ 600 LSB	(AB)
E06	13945	2-1	0600	Thu	139 702 53 36597 05919 36325 ... 06929 43861 58177 702 53 00000	USB	(AB-RUS)
E06	16350	2-1	0700	Thu	139 702 53 36597 05919 36325 ... 06929 43861 58177 702 53 00000	USB	(AB-RUS)
E06	4836	2-1	2030	Thu	321 835 45 12435 76426 05698 ... 12346 73416 32442 835 45 00000 Windows shut down sound	USB	(AB)
E06	13945	3-1	0600	Fri	139 702 53 36597 05919 36325 ... 06929 43861 58177 702 53 00000	USB	(AB-RUS/HFD-RUS)
E06	16350	3-1	0700	Fri	139 702 53 36597 05919 36325 ... 06929 43861 58177 702 53 00000	USB	(AB-RUS/HFD-RUS)
E06	4760	3-1	2130	Fri	472 836 45 12435 76426 05698 ... 12346 73416 32442 836 45 00000 Windows sound. Windows shut down sound	USB	(AB)
E06	9349	13-1	0210	Mon	537 460 33 46072 ...	USB	(HFD)
E06	13413	13-1	0310	Mon	537 460 33 46072 ...	USB	(HFD)
E06	13945	16-1	0600	Thu	139 478 52 91874 11683 61046 ... 35324 38834 98595 478 52 00000	USB	(AB-RUS)
E06	16350	16-1	0700	Thu	139 478 52 91874 11683 61046 ... 35324 38834 98595 478 52 00000	USB	(AB-RUS)
E06	4836	16-1	2030	Thu	321 836 42 45671 65736 96930 ... 57693 48690 03856 836 42 00000 Windows XP shutdown sound	USB	(AB)
E06	14911	17-1	0306	Fri	i.p.	USB	(HFD)
E06	13945	17-1	0600	Fri	139 478 52 91874 11683 61046 ... 35324 38834 98595 478 52 00000	USB	(AB-RUS)
E06	16350	17-1	0700	Fri	139 478 52 91874 11683 61046 ... 35324 38834 98595 478 52 00000	USB	(AB-RUS)
E06	4760	17-1	2129	Fri	472 836 45 12435 76426 05698 ... 12346 73416 32442 836 45 00000	USB	(AB-RUS)
E06b	10755	21-1	1430	Tue	975 975 975 74123 (R) 183 183 38 38 84033 95467 27441 69842 ... 38586 62800 69070 183 183 38 38 00000	USB	(ES-HOL)
E07	6963	1-1	1800	Wed	987 987 987 1 9952 121 9952 121 94932 19840 44164 ... 28347 48419 45457 000 000	USB	(AB/HFD)
E07	5863	1-1	1820	Wed	987 987 987 1 9952 121 9952 121 94932 19840 44164 ... 28347 48419 45457 000 000	USB	(AB/HFD)
E07	4763	1-1	1840	Wed	987 987 987 1 9952 121 9952 121 94932 19840 44164 ... 28347 48419 45457 000 000	USB	(AB/HFD)
E07	6776	1-1	2000	Wed	770 770 770 000	USB	(AB/HFD)
E07	5767	1-1	2020	Wed	770 770 770 000	USB	(AB/HFD)
E07	11593	2-1	1400	Thu	916 916 916 000	USB	(MPJ/HFD)
E07	10293	2-1	1420	Thu	916 916 916 000	USB	(MPJ/HFD)
E07	14472	3-1	0700	Fri	492 492 492 000	USB	(AB-RUS)
E07	14972	3-1	0720	Fri	492 492 492 000	USB	(AB-RUS)
E07	13523	3-1	1100	Fri	516 516 516 000	USB	(AB/HFD)
E07	12123	3-1	1120	Fri	516 516 516 000	USB	(AB/HFD)
E07	10323	4-1	1400	Sat	310 310 310 000	USB	(AB)
E07	10232	4-1	1400	Sat	310 310 310 000	USB	(HFD)
E07	11593	4-1	1410	Sat	916 916 916 000	USB	(AB)
E07	9123	4-1	1420	Sat	310 310 310 000	USB	(HFD)
E07	9123	4-1	1420	Sat	310 310 310 000	USB	(AB)
E07	10293	4-1	1430	Sat	916 916 916 000	USB	(AB)
E07	6963	5-1	1800	Sun	987 987 987 000	USB	(AB)
E07	5863	5-1	1820	Sun	987 987 987 000	USB	(AB)
E07	6776	6-1	2000	Mon	770 770 770 000	USB	(AB)
E07	5767	6-1	2020	Mon	770 770 770 000	USB	(AB)
E07	14472	7-1	0700	Tue	492 492 492 000	USB	(AB-RUS)
E07	14972	7-1	0720	Tue	492 492 492 000	USB	(AB-RUS)
E07	13523	7-1	1100	Tue	516 516 516 000	USB	(AB)
E07	12123	7-1	1120	Tue	516 516 516 000	USB	(AB)

E07	6963	8-1	1800	Wed	987 987 987 000	USB	(AB/MPJ)
E07	5863	8-1	1820	Wed	987 987 987 000	USB	(AB/MPJ)
E07	6776	8-1	2000	Wed	770 770 770 000	USB	(AB/MPJ)
E07	5767	8-1	2020	Wed	770 770 770 000	USB	(AB)
E07	11593	9-1	1400	Thu	916 916 916 000	USB	(AB/MPJ)
E07	10293	9-1	1420	Thu	916 916 916 000	USB	(AB/MPJ)
E07	14472	10-1	0700	Fri	492 492 492 1 479 151 479 151 42105 25590 51432 ... 55464 93721 99904 000 000	USB	(AB-RUS/HFD)
E07	14972	10-1	0720	Fri	492 492 492 1 479 151 479 151 42105 25590 51432 ... 55464 93721 99904 000 000	USB	(AB/HFD)
E07	16272	10-1	0740	Fri	492 492 492 1 479 151 479 151 42105 25590 51432 ... 55464 93721 99904 000 000	USB	(AB/HFD)
E07	13523	10-1	1100	Fri	516 516 516 000	USB	(AB/RL)
E07	12123	10-1	1120	Fri	516 516 516 000	USB	(AB/RL)
E07	10323	11-1	1400	Sat	310 310 310 000	USB	(AB/MPJ)
E07	11593	11-1	1410	Sat	916 916 916 000	USB	(AB/MPJ)
E07	9123	11-1	1420	Sat	310 310 310 000	USB	(AB/MPJ)
E07	10293	11-1	1430	Sat	916 916 916 000	USB	(AB/MPJ)
E07	9326	12-1	0700	Sun	345 345 345 000	USB	(AB/HFD)
E07	10426	12-1	0720	Sun	345 345 345 000	USB	(AB/HFD)
E07	6963	12-1	1800	Sun	987 987 987 000	USB	(AB)
E07	5863	12-1	1820	Sun	987 987 987 000	USB	(AB)
E07	6776	13-1	2000	Mon	770 770 770 000	USB	(AB/MPJ)
E07	5767	13-1	2020	Mon	770 770 770 000	USB	(AB/MPJ)
E07	14472	14-1	0700	Tue	492 492 492 000	USB	(AB)
E07	14972	14-1	0720	Tue	492 492 492 000	USB	(AB)
E07	13523	14-1	1100	Tue	516 516 516 1 9905 68 9905 68 84249 40356 92939 ... 71548 67494 51287 000 000	USB	(AB/MPJ)
E07	12123	14-1	1120	Tue	516 516 516 1 9905 68 9905 68 84249 40356 92939 ... 71548 67494 51287 000 000	USB	(AB/MPJ)
E07	10623	14-1	1140	Tue	516 516 516 1 9905 68 9905 68 84249 40356 92939 ... 71548 67494 51287 000 000	USB	(AB/MPJ)
E07	6963	15-1	1800	Wed	987 987 987 000	USB	(AB)
E07	5863	15-1	1820	Wed	987 987 987 000	USB	(AB)
E07	6776	15-1	2000	Wed	770 770 770 000	USB	(AB)
E07	5767	15-1	2020	Wed	770 770 770 000	USB	(AB)
E07	11593	16-1	1400	Thu	916 916 916 000	USB	(AB)
E07	10293	16-1	1420	Thu	916 916 916 000	USB	(AB)
E07	14472	17-1	0700	Fri	492 492 492 000	USB	(AB-RUS)
E07	14972	17-1	0720	Fri	492 492 492 000	USB	(AB)
E07	13523	17-1	1100	Fri	516 516 516 1 9905 68 9905 68 84249 40356 92939 ... 71548 67494 51287 000 000	USB	(AB)
E07	12123	17-1	1120	Fri	516 516 516 1 9905 68 9905 68 84249 40356 92939 ... 71548 67494 51287 000 000	USB	(AB)
E07	10623	17-1	1140	Fri	516 516 516 1 9905 68 9905 68 84249 40356 92939 ... 71548 67494 51287 000 000	USB	(AB)
E07	10323	18-1	1400	Sat	310 310 310 000	USB	(AB/MPJ)
E07	11593	18-1	1410	Sat	916 916 916 000	USB	(AB/MPJ)
E07	9123	18-1	1420	Sat	310 310 310 000	USB	(AB/MPJ)
E07	10293	18-1	1430	Sat	916 916 916 000	USB	(AB/MPJ)
E07	9326	19-1	0700	Sun	345 345 345 000	USB	(AB)
E07	10426	19-1	0720	Sun	345 345 345 000	USB	(AB)
E07	6963	19-1	1800	Sun	987 987 987 000	USB	(AB/MPJ)
E07	5863	19-1	1820	Sun	987 987 987 000	USB	(AB/MPJ)
E07	6776	20-1	2000	Mon	770 770 770 000	USB	(AB)

E07	5767	20-1	2020	Mon	770 770 770 000	USB	(AB)
E07	13523	21-1	1100	Tue	516 516 516 000	USB	(AB)
E07	12123	21-1	1120	Tue	516 516 516 000	USB	(AB)
E07	6963	22-1	1800	Wed	987 987 987 000	USB	(AB)
E07	5863	22-1	1820	Wed	987 987 987 000	USB	(AB)
E07	6776	22-1	2000	Wed	770 770 770 000	USB	(AB/MPJ)
E07	5767	22-1	2020	Wed	770 770 770 000	USB	(AB/MPJ)
E07	11593	23-1	1400	Thu	916 916 916 000	USB	(AB/MPJ)
E07	10293	23-1	1420	Thu	916 916 916 000	USB	(AB/MPJ)
E07	14472	24-1	0700	Fri	492 492 492 1 9157 122 9157 122 40920 26151 14067 ... 69719 41631 52608 000 000	USB	(AB-RUS)
E07	14972	24-1	0720	Fri	492 492 492 1 9157 122 9157 122 40920 26151 14067 ... 69719 41631 52608 000 000	USB	(AB-RUS)
E07	16272	24-1	0740	Fri	492 492 492 1 9157 122 9157 122 40920 26151 14067 ... 69719 41631 52608 000 000	USB	(AB)
E07	13523	24-1	1100	Fri	516 516 516 000	USB	(AB)
E07	12123	24-1	1120	Fri	516 516 516 000	USB	(AB)
E07	10323	25-1	1400	Sat	310 310 310 000	USB	(AB/MPJ)
E07	11593	25-1	1410	Sat	916 916 916 000	USB	(MPJ)
E07	9123	25-1	1420	Sat	310 310 310 000	USB	(AB/MPJ)
E07	10293	25-1	1430	Sat	916 916 916 000	USB	(MPJ)
E07	9326	26-1	0700	Sun	345 345 345 000	USB	(AB)
E07	10426	26-1	0720	Sun	345 345 345 000	USB	(AB)
E07	6963	26-1	1800	Sun	987 987 987 000	USB	(AB-RUS/MPJ)
E07	5863	26-1	1820	Sun	987 987 987 000	USB	(AB-RUS/MPJ)
E07	6776	27-1	2000	Mon	770 770 770 1 990 76 990 76 49913 46917 43570 ... 61318 44363 58543 000 000	USB	(AB)
E07	5767	27-1	2020	Mon	770 770 770 1 990 76 990 76 49913 46917 43570 ... 61318 44363 58543 000 000	USB	(AB)
E07	5067	27-1	2040	Mon	770 770 770 1 990 76 990 76 49913 46917 43570 ... 61318 44363 58543 000 000	USB	(AB)
E07	14472	28-1	0700	Tue	492 492 492 000	USB	(AB-RUS)
E07	14972	28-1	0720	Tue	492 492 492 000	USB	(AB-RUS)
E07	13523	28-1	1100	Tue	516 516 516 1 485 138 485 138 94997 36238 93727 ... 32660 95901 95360 000 000	USB	(AB)
E07	12123	28-1	1120	Tue	516 516 516 1 485 138 485 138 94997 36238 93727 ... 32660 95901 95360 000 000	USB	(AB)
E07	10623	28-1	1140	Tue	516 516 516 1 485 138 485 138 94997 36238 93727 ... 32660 95901 95360 000 000	USB	(AB)
E07	6963	29-1	1800	Wed	987 987 987 000	USB	(AB)
E07	5863	29-1	1820	Wed	987 987 987 000	USB	(AB/GHn)
E07	6776	29-1	2000	Wed	770 770 770 1 990 76 990 76 49913 46917 43570 ... 61318 44363 58543 000 000	USB	(AB/MPJ)
E07	5767	29-1	2020	Wed	770 770 770 1 990 76 990 76 49913 46917 43570 ... 61318 44363 58543 000 000	USB	(AB/MPJ/RL)
E07	5067	29-1	2040	Wed	770 770 770 1 990 76 990 76 49913 46917 43570 ... 61318 44363 58543 000 000	USB	(AB/MPJ/RL)
E07	11593	30-1	1400	Thu	916 916 916 1 2602 78 2602 78 14202 31975 65006 ... 44337 92487 08648 000 000	USB	(AB/RL/HOL)
E07	10293	30-1	1420	Thu	916 916 916 1 2602 78 2602 78 14202 31975 65006 ... 44337 92487 08648 000 000	USB	(AB/RL/HOL)
E07	9293	30-1	1440	Thu	916 916 916 1 2602 78 2602 78 14202 31975 65006 ... 44337 92487 08648 000 000	USB	(AB/RL-HOL)
E07	14472	31-1	0700	Fri	492 492 492 000	USB	(AB)
E07	14972	31-1	0720	Fri	492 492 492 000	USB	(AB)
E07	13523	31-1	1100	Fri	516 516 516 1 485 138 485 138 94997 36238 93727 ... 32660 95901 95360 000 000	USB	(AB)
E07	12123	31-1	1120	Fri	516 516 516 1 485 138 485 138 94997 36238 93727 ... 32660 95901 95360 000 000	USB	(AB/RL)
E07	10623	31-1	1140	Fri	516 516 516 1 485 138 485 138 94997 36238 93727 ... 32660 95901 95360 000 000	USB	(AB)
E07a	5877	1-1	2100	Wed	825 825 825 000	USB	(AB/RL)
E07a	5277	1-1	2120	Wed	825 825 825 000	USB	(AB/RL)
E07a	5111	2-1	0530	Thu	189 189 189 000	USB	(AB)

E07a	5811	2-1	0550	Thu	189 189 189 000	USB	(AB)
E07a	7632	3-1	1610	Fri	688 688 688 000	USB	(AB/HFD)
E07a	6832	3-1	1630	Fri	688 688 688 000	USB	(AB/HFD)
E07a	11123	4-1	0900	Sat	114 114 114 000	USB	(AB/RL)
E07a	12123	4-1	0920	Sat	114 114 114 000	USB	(AB/RL)
E07a	5877	8-1	2100	Wed	825 825 825 000	USB	(AB/RL)
E07a	5277	8-1	2120	Wed	825 825 825 000	USB	(AB/RL)
E07a	5111	9-1	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	9-1	0550	Thu	189 189 189 000	USB	(AB)
E07a	7632	10-1	1610	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	6832	10-1	1630	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	11123	11-1	0900	Sat	114 114 114 000	USB	(AB/RL/HFD)
E07a	12123	11-1	0920	Sat	114 114 114 000	USB	(AB/RL/HFD)
E07a	5877	15-1	2100	Wed	825 825 825 000	USB	(AB)
E07a	5277	15-1	2120	Wed	825 825 825 000	USB	(AB)
E07a	5111	16-1	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	16-1	0550	Thu	189 189 189 000	USB	(AB)
E07a	7632	17-1	1610	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	6832	17-1	1630	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	11123	18-1	0900	Sat	114 114 114 000	USB	(AB)
E07a	12123	18-1	0920	Sat	114 114 114 000	USB	(AB)
E07a	5877	22-1	2100	Wed	825 825 825 1 68470 9679 83 9679 83 12758 86300 04361 ... 41782 11798 89038 000 000	USB	(AB/RL)
E07a	5277	22-1	2120	Wed	825 825 825 1 68470 9679 83 9679 83 12758 86300 04361 ... 41782 11798 89038 000 000	USB	(AB/RL)
E07a	4577	22-1	2140	Wed	825 825 825 1 68470 9679 83 9679 83 12758 86300 04361 ... 41782 11798 89038 000 000	USB	(AB)
E07a	5111	23-1	0530	Thu	189 189 189 1 68470 9679 83 9679 83 12758 86300 04361 ... 41782 11798 89038 000 000	USB	(AB)
E07a	5811	23-1	0550	Thu	189 189 189 1 68470 9679 83 9679 83 12758 86300 04361 ... 41782 11798 89038 000 000	USB	(AB)
E07a	6911	23-1	0610	Thu	189 189 189 1 68470 9679 83 9679 83 12758 86300 04361 ... 41782 11798 89038 000 000	USB	(AB)
E07a	7632	24-1	1610	Fri	688 688 688 000	USB	(AB)
E07a	6832	24-1	1630	Fri	688 688 688 000	USB	(AB)
E07a	11123	25-1	0900	Sat	114 114 114 000	USB	(AB)
E07a	12123	25-1	0920	Sat	114 114 114 000	USB	(AB)
E07a	5877	29-1	2100	Wed	825 825 825 000	USB	(AB/RL)
E07a	5277	29-1	2120	Wed	825 825 825 000	USB	(AB/RL)
E07a	5111	30-1	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	30-1	0550	Thu	189 189 189 000	USB	(AB)
E07a	7632	31-1	1610	Fri	688 688 688 000	USB	(AB/MPJ)
E07a	6832	31-1	1630	Fri	688 688 688 000	USB	(AB/MPJ)
E11	14611	1-1	0820	Wed	133/00	USB	(AB)
E11	8597	1-1	0900	Wed	530/00	USB	(AB)
E11	5082	1-1	1625	Wed	974/00	USB	(AB)
E11	7840	2-1	0645	Thu	517/00	USB	(AB)
E11	5149	2-1	0820	Thu	435/00	USB	(AB)
E11	12089	2-1	0845	Thu	150/00	USB	(AB)
E11	7469	2-1	0930	Thu	278/00	USB	(AB)
E11	5409	2-1	1530	Thu	260/00	USB	(AB/MPJ)
E11	5779	2-1	1730	Thu	416/00	USB	(AB)

E11	6849	2-1	1900	Thu	64?/00 Unreadable	USB	(MPJ)
E11	6280	3-1	0435	Fri	352/00	USB	(AB)
E11	5149	3-1	0820	Fri	439/00	USB	(AB)
E11	8597	3-1	1000	Fri	304/00	USB	(AB)
E11	5082	3-1	1530	Fri	527/00	USB	(AB)
E11	6849	3-1	1650	Fri	920/00	USB	(AB)
E11	4505	4-1	0710	Sat	491/00	USB	(AB)
E11	13363	4-1	1345	Sat	919/00	USB	(AB)
E11	4505	5-1	0710	Sun	497/00	USB	(AB)
E11	5344	5-1	1605	Sun	238/00	USB	(AB)
E11	5082	5-1	1625	Sun	970/00	USB	(AB)
E11	6849	5-1	1650	Sun	920/00	USB	(AB)
E11	12924	5-1	1745	Sun	242/00	USB	(AB)
E11	11450	6-1	0640	Mon	949/00	USB	(AB)
E11	10213	6-1	0745	Mon	260/00	USB	(AB)
E11	7984	6-1	1045	Mon	696/00	USB	(AB)
E11	5082	6-1	1530	Mon	527/00	USB	(AB/MPJ)
E11	6849	6-1	1900	Mon	648/00	USB	(AB-POL)
E11	7840	7-1	0645	Tue	512/00	USB	(AB)
E11	6804	7-1	0700	Tue	571/00	USB	(AB)
E11	9130	7-1	0715	Tue	630/00	USB	(AB)
E11	14611	7-1	0820	Tue	130/00	USB	(AB)
E11	12089	7-1	0845	Tue	152/00	USB	(AB)
E11	8597	7-1	1000	Tue	308/00	USB	(AB)
E11	6433	7-1	1205	Tue	461/00	USB	(AB)
E11	13363	7-1	1345	Tue	912/00	USB	(AB/MPJ)
E11	10800	7-1	1645	Tue	Too weak to copy	USB	(AB)
E11	11450	8-1	0640	Wed	945/00	USB	(AB)
E11	17378	8-1	0745	Wed	340/00	USB	(AB-POL)
E11	14611	8-1	0820	Wed	136/00	USB	(AB-POL)
E11	7984	8-1	1045	Wed	698/00	USB	(AB)
E11	5082	8-1	1625	Wed	976/00	USB	(AB/GHn/MPJ)
E11	4505	8-1	1705	Wed	396/00	USB	(AB/MPJ)
E11	7840	9-1	0645	Thu	519/00	USB	(AB)
E11	13908	9-1	0745	Thu	229/00	USB	(Danix)
E11	5149	9-1	0820	Thu	430/00	USB	(AB)
E11	12089	9-1	0845	Thu	155/00	USB	(AB-POL)
E11	5409	9-1	1530	Thu	264/00	USB	(AB)
E11	6280	9-1	1700	Thu	333/00	USB	(RL)
E11	6849	9-1	1900	Thu	641/00	USB	(AB/MPJ)
E11	6804	10-1	0700	Fri	573/00	USB	(AB)
E11	9130	10-1	0715	Fri	634/00	USB	(AB)
E11	17378	10-1	0745	Fri	343/00	USB	(AB-POL/HFD)
E11	5149	10-1	0820	Fri	435/00	USB	(AB)
E11	15720	10-1	0830	Fri	188/00	USB	(Danix)
E11	5082	10-1	1530	Fri	528/00	USB	(AB)

E11	6849	10-1	1650	Fri	920/00	USB	(AB/MPJ)
E11	10487	10-1	1910	Fri	618/00	USB	(AB/MPJ)
E11	4909	11-1	0805	Sat	319/00	USB	(AB)
E11	13363	11-1	1345	Sat	918/00	USB	(AB/MPJ)
E11	4505	11-1	1705	Sat	390/00	USB	(AB)
E11	4909	11-1	1930	Sat	369/00	USB	(AB/MPJ)
E11	6280	12-1	0435	Sun	351/00	USB	(AB)
E11	4909	12-1	0805	Sun	312/00	USB	(AB)
E11	5082	12-1	1625	Sun	978/00	USB	(AB)
E11	6849	12-1	1650	Sun	922/00	USB	(AB)
E11	10487	12-1	1910	Sun	610/00	USB	(AB/MPJ)
E11	4909	12-1	1930	Sun	360/00	USB	(AB/MPJ/GHn)
E11	4909	13-1	0450	Mon	413/00	USB	(AB)
E11	11450	13-1	0640	Mon	944/00	USB	(AB)
E11	10213	13-1	0745	Mon	261/00	USB	(AB)
E11	8597	13-1	0900	Mon	530/00	USB	(AB)
E11	7984	13-1	1045	Mon	691/00	USB	(AB)
E11	5082	13-1	1530	Mon	524/00	USB	(AB)
E11	12924	13-1	1745	Mon	248/00	USB	(AB-POL/MPJ)
E11	6849	13-1	1900	Mon	648/00	USB	(AB-POL)
E11	6804	14-1	0700	Tue	577/00	USB	(AB)
E11	9130	14-1	0715	Tue	635/00	USB	(AB)
E11	12089	14-1	0845	Tue	150/00	USB	(AB)
E11	8597	14-1	1000	Tue	306/00	USB	(AB)
E11	5344	14-1	1605	Tue	231/00	USB	(AB)
E11	11450	15-1	0640	Wed	949/00	USB	(AB)
E11	17378	15-1	0745	Wed	346/00	USB	(AB-POL)
E11	8597	15-1	0900	Wed	536/00	USB	(AB)
E11	7469	15-1	0930	Wed	273/00	USB	(AB)
E11	7984	15-1	1045	Wed	690/00	USB	(AB)
E11	4505	15-1	1705	Wed	390/00	USB	(AB/Ghn/MPJ)
E11	5779	16-1	0315	Thu	258/00	USB	(AB)
E11	13908	16-1	0745	Thu	220/00	USB	(AB/HFD)
E11	12089	16-1	0845	Thu	156/00	USB	(AB)
E11	7469	16-1	0930	Thu	270/00	USB	(AB)
E11	5409	16-1	1530	Thu	267/00	USB	(AB)
E11	5779	16-1	1730	Thu	413/00	USB	(AB)
E11	6849	16-1	1900	Thu	640/00	USB	(AB)
E11	9130	17-1	0715	Fri	631/00	USB	(AB)
E11	8597	17-1	1000	Fri	305/00	USB	(AB)
E11	5082	17-1	1530	Fri	524/00	USB	(AB)
E11	10487	17-1	1910	Fri	610/00	USB	(AB)
E11	4505	18-1	0710	Sat	490/00	USB	(AB)
E11	4909	18-1	0805	Sat	315/00	USB	(AB)
E11	4505	18-1	1705	Sat	395/00	USB	(AB)
E11	4909	18-1	1930	Sat	368/00	USB	(MPJ)

E11	4505	19-1	0710	Sun	497/00	USB	(AB)
E11	4909	19-1	0805	Sun	313/00	USB	(AB)
E11	5344	19-1	1605	Sun	233/00	USB	(AB/GHn/MPJ)
E11	10487	19-1	1910	Sun	618/00	USB	(AB-POL/MPJ)
E11	4909	19-1	1930	Sun	365/00	USB	(AB/MPJ)
E11	4909	20-1	0450	Mon	414/00	USB	(AB)
E11	11450	20-1	0640	Mon	942/00	USB	(AB)
E11	8597	20-1	0900	Mon	530/00	USB	(AB)
E11	7984	20-1	1045	Mon	698/00	USB	(AB)
E11	12924	20-1	1745	Mon	245/00	USB	(AB-POL)
E11	6849	20-1	1900	Mon	647/00	USB	(AB-POL/MPJ)
E11	14611	21-1	0820	Tue	131/00	USB	(AB)
E11	12089	21-1	0845	Tue	159/00	USB	(AB)
E11	6433	21-1	1205	Tue	466/00	USB	(AB)
E11	13363	21-1	1345	Tue	914/00	USB	(AB-POL)
E11	5344	21-1	1605	Tue	231/00	USB	(AB)
E11	6280	21-1	1700	Tue	334/00	USB	(AB/MPJ)
E11	5779	22-1	0315	Wed	252/00	USB	(AB)
E11	11450	22-1	0640	Wed	944/00	USB	(AB)
E11	17378	22-1	0745	Wed	342/00	USB	(AB-POL)
E11	14611	22-1	0820	Wed	131/00	USB	(AB-POL)
E11	8597	22-1	0900	Wed	537/00	USB	(AB)
E11	7469	22-1	0930	Wed	273/00	USB	(AB)
E11	7984	22-1	1045	Wed	693/00	USB	(AB)
E11	6433	22-1	1205	Wed	469/00	USB	(AB)
E11	5082	22-1	1625	Wed	978/00	USB	(AB/MPJ)
E11	4505	22-1	1705	Wed	395/00	USB	(AB/MPJ)
E11	7840	23-1	0645	Thu	518/00	USB	(AB)
E11	5149	23-1	0820	Thu	435/00	USB	(AB)
E11	12089	23-1	0845	Thu	152/00	USB	(AB)
E11	7469	23-1	0930	Thu	279/00	USB	(AB)
E11	6280	23-1	1700	Thu	330/00	USB	(AB/MPJ)
E11	5779	23-1	1730	Thu	412/00	USB	(AB/MPJ)
E11	6849	23-1	1900	Thu	643/00	USB	(AB/MPJ)
E11	6280	24-1	0435	Fri	354/00	USB	(AB)
E11	6804	24-1	0700	Fri	577/00	USB	(AB)
E11	17378	24-1	0745	Fri	344/00	USB	(AB)
E11	5149	24-1	0820	Fri	432/00	USB	(AB)
E11	15720	24-1	0830	Fri	188/00	USB	(AB-POL)
E11	6849	24-1	1650	Fri	920/00	USB	(AB/MPJ)
E11	4505	25-1	0710	Sat	491/00	USB	(AB)
E11	4909	25-1	0805	Sat	313/00	USB	(AB)
E11	13363	25-1	1345	Sat	918/00	USB	(MPJ)
E11	4505	25-1	1705	Sat	393/00	USB	(AB/MPJ)
E11	4909	25-1	1930	Sat	365/00	USB	(AB/MPJ)
E11	4505	26-1	0710	Sun	490/00	USB	(AB)

E11	4909	26-1	0805	Sun	314/00	USB	(AB)
E11	5344	26-1	1605	Sun	236/00	USB	(AB/MPJ)
E11	5082	26-1	1625	Sun	970/00	USB	(AB/MPJ)
E11	6849	26-1	1650	Sun	927/00	USB	(AB/MPJ)
E11	12924	26-1	1745	Sun	246/00	USB	(MPJ-POL)
E11	10487	26-1	1910	Sun	Unreadable	USB	(AB-POL/MPJ-FIN)
E11	4909	26-1	1930	Sun	360/00	USB	(AB/MPJ)
E11	4909	27-1	0450	Mon	415/00	USB	(AB)
E11	11450	27-1	0640	Mon	942/00	USB	(AB)
E11	10213	27-1	0745	Mon	267/00	USB	(AB)
E11	8597	27-1	0900	Mon	533/00	USB	(AB)
E11	5082	27-1	1530	Mon	521/00	USB	(AB)
E11	12924	27-1	1745	Mon	240/00	USB	(AB)
E11	9130	28-1	0715	Tue	635/00	USB	(AB)
E11	13908	28-1	0745	Tue	229/00	USB	(AB-POL)
E11	14611	28-1	0820	Tue	134/00	USB	(AB)
E11	8597	28-1	1000	Tue	308/00	USB	(AB)
E11	6433	28-1	1205	Tue	466/00	USB	(AB)
E11	13363	28-1	1345	Tue	917/00	USB	(AB-POL)
E11	5344	28-1	1605	Tue	235/00	USB	(AB)
E11	6280	28-1	1700	Tue	337/00	USB	(AB)
E11	5779	29-1	0315	Wed	250/00	USB	(AB)
E11	17378	29-1	0745	Wed	348/00	USB	(AB-POL)
E11	14611	29-1	0820	Wed	135/00	USB	(AB)
E11	8597	29-1	0900	Wed	535/00	USB	(AB)
E11	7469	29-1	0930	Wed	270/00	USB	(AB)
E11	6433	29-1	1205	Wed	466/00	USB	(AB)
E11	5082	29-1	1625	Wed	976/00	USB	(AB/MPJ)
E11	4505	29-1	1705	Wed	390/00	USB	(AB/MPJ)
E11	5779	30-1	0315	Thu	251/00	USB	(AB)
E11	7840	30-1	0645	Thu	512/00	USB	(AB)
E11	13908	30-1	0745	Thu	223/00	USB	(AB-POL)
E11	5149	30-1	0820	Thu	432/00	USB	(AB)
E11	7469	30-1	0930	Thu	275/00	USB	(AB)
E11	5409	30-1	1530	Thu	267/00	USB	(AB/GHn/RL-HOL)
E11	6280	30-1	1700	Thu	331/00	USB	(AB)
E11	5779	30-1	1730	Thu	413/00	USB	(AB)
E11	6849	30-1	1900	Thu	643/00	USB	(AB)
E11	6280	31-1	0435	Fri	350/00	USB	(AB)
E11	17378	31-1	0745	Fri	347/00	USB	(AB)
E11	5149	31-1	0820	Fri	436/00 OUT	USB	(ES-HOL)
E11	5149	31-1	0820	Fri	436/00	USB	(AB)
E11	15720	31-1	0830	Fri	185/00	USB	(AB)
E11	8597	31-1	1000	Fri	306/00	USB	(AB)
E11	5082	31-1	1530	Fri	520/00	USB	(AB/MPJ)
E11	6849	31-1	1650	Fri	924/00	USB	(AB)



E11	10487	31-1	1910	Fri	611/00	USB	(MPJ)
E11a	17378	1-1	0745	Wed	340/39 Attention 07175 37508 17176 ... 53165 61295 61114 Attention (message repeated) Out	USB	(AB-POL)
E11a	4505	1-1	1705	Wed	391/35 Attention 36507 59377 94204 ... 58479 69631 36591 Attention (message repeated) Out	USB	(AB)
E11a	10487	3-1	1910	Fri	612/40 Attention 36821 72344 43607 94243 ... 50937 38032 01627 Attention (message repeated) Out	USB	(AB)
E11a	4909	4-1	0805	Sat	315/35 Attention 58177 76013 11905 ... 62742 78278 95332 Attention (message repeated) Out	USB	(AB)
E11a	4505	4-1	1705	Sat	391/35 Attention 36507 59377 94204 ... 58479 69631 36591 Attention (message repeated) Out	USB	(AB)
E11a	4909	4-1	1930	Sat	363/38 Attention 52163 05618 12051 ... 56263 22801 42810 Attention (message repeated) Out	USB	(AB)
E11a	4909	5-1	0805	Sun	315/35 Attention 58177 76013 11905 ... 62742 78278 95332 Attention (message repeated) Out	USB	(AB)
E11a	10487	5-1	1910	Sun	612/40 Attention 36821 72344 43607 94243 ... 50937 38032 01627 Attention (message repeated) Out	USB	(AB-POL)
E11a	4909	5-1	1930	Sun	363/38 Attention 52163 05618 12051 ... 56263 22801 42810 Attention (message repeated) Out	USB	(AB)
E11a	4909	6-1	0450	Mon	410/36 Attention 69806 48481 86948 ... 30525 05372 65252 Attention (message repeated) Out	USB	(AB)
E11a	8597	6-1	0900	Mon	532/36 Attention 86797 95859 43039 ... 47800 54673 60473 Attention (repeat message) Out	USB	(AB)
E11a	12924	6-1	1745	Mon	240/33 Attention 67090 46131 65784 ... 80086 43872 53204 Attention (message repeated) Out	USB	(AB/MPJ-HOL)
E11a	5344	7-1	1605	Tue	232/39 Attention 57993 57922 07656 ... 47039 82279 40878 Attention (message repeated) Out	USB	(AB)
E11a	8597	8-1	0900	Wed	532/36 Attention 86797 95859 43039 ... 47800 54673 60473 Attention (repeat message) Out	USB	(AB)
E11a	7469	8-1	0930	Wed	278/40 Attention 30507 39133 38616 ... 38598 82452 08239 Attention (message repeated) Out	USB	(AB)
E11a	7469	9-1	0930	Thu	278/40 Attention 30507 39133 38616 ... 38598 82452 08239 Attention (message repeated) Out	USB	(AB)
E11a	5779	9-1	1730	Thu	410/36 Attention 69806 48481 86948 ... 30525 05372 65252 Attention (message repeated) Out	USB	(AB/MPJ)
E11a	4505	11-1	0710	Sat	496/35 Attention 25992 32852 53755 ... 17699 09758 79312 Attention (message repeated) Out	USB	(AB)
E11a	4505	12-1	0710	Sun	496/35 Attention 25992 32852 53755 ... 17699 09758 79312 Attention (message repeated) Out	USB	(AB/ES-HOL/HFD)
E11a	5344	12-1	1605	Sun	232/39 Attention 57993 57922 07656 ... 47039 82279 40878 Attention (message repeated) Out	USB	(AB)
E11a	12924	12-1	1745	Sun	240/33 Attention 67090 46131 65784 ... 80086 43872 53204 Attention (message repeated) Out	USB	(AB/MPJ)
E11a	15720	13-1	0830	Mon	181/24 Attention 91614 50851 84885 ... 21697 61482 36728 Attention (message repeated) Out	USB	(AB-POL/HFD)
E11a	7840	14-1	0645	Tue	516/39 Attention 88158 07273 84297 ... 52735 18760 13182 Attention (message repeated) Out	USB	(AB)
E11a	14611	14-1	0820	Tue	135/35 Attention 36630 14669 35392 ... 01007 71038 93022 Attention (message repeated) Out	USB	(AB-POL)
E11a	6433	14-1	1205	Tue	463/39 Attention 75584 19073 78389 ... 86064 61245 20259 Attention (message repeated) Out	USB	(AB)
E11a	13363	14-1	1345	Tue	911/32 Attention 60830 09143 48819 ... 48478 24124 51908 Attention (message repeated) Out	USB	(AB-POL/MPJ)
E11a	6280	14-1	1700	Tue	334/40 Attention 69236 21485 06899 ... 43820 08807 02125 Attention (message repeated) Out	USB	(AB)
E11a	14611	15-1	0820	Wed	135/35 Attention 36630 14669 35392 ... 01007 71038 93022 Attention (message repeated) Out	USB	(AB-POL)
E11a	6433	15-1	1205	Wed	463/39 Attention 75584 19073 78389 ... 86064 61245 20259 Attention (message repeated) Out	USB	(AB-POL)
E11a	5082	15-1	1625	Wed	975/31 Attention 53435 89515 09415 ... 51045 93042 93574 Attention (message repeated) Out	USB	(AB/GHn/MPJ)
E11a	7840	16-1	0645	Thu	516/39 Attention 88158 07273 84297 ... 52735 18760 13182 Attention (message repeated) Out	USB	(AB)
E11a	5149	16-1	0820	Thu	435/31 Attention 06732 39928 50872 ... 82157 89763 01723 Attention (message repeated) Out	USB	(AB)
E11a	6280	16-1	1700	Thu	334/40 Attention 69236 21485 06899 ... 43820 08807 02125 Attention (message repeated) Out	USB	(AB/HFD)
E11a	5149	17-1	0820	Fri	435/31 Attention 06732 39928 50872 ... 82157 89763 01723 Attention (message repeated) Out	USB	(AB)
E11a	15720	17-1	0830	Fri	181/24 Attention 91614 50851 84885 ... 21697 61482 36728 Attention (message repeated) Out	USB	(AB-POL)
E11a	6849	17-1	1650	Fri	926/38 Attention 14164 49111 32821 ... 48205 82513 82427 Attention (message repeated) Out	USB	(AB)
E11a	13363	18-1	1345	Sat	911/32 Attention 60830 09143 48819 ... 48478 24124 51908 Attention (message repeated) Out	USB	(MPJ)
E11a	5082	19-1	1625	Sun	975/31 Attention 53435 89515 09415 ... 51045 93042 93574 Attention (message repeated) Out	USB	(AB/MPJ/GHn)
E11a	6849	19-1	1650	Sun	926/38 Attention 14164 49111 32821 ... 48205 82513 82427 Attention (message repeated) Out	USB	(AB/MPJ/GHn)
E11a	10213	20-1	0745	Mon	264/36 Attention 47591 20802 31756 ... 57942 02191 39047 Attention (message repeated) Out	USB	(AB)
E11a	5082	20-1	1530	Mon	525/32 Attention 43654 78986 35900 ... 69484 29612 99196 Attention (message repeated) Out	USB	(AB/MPJ)
E11a	13908	21-1	0745	Tue	225/34 Attention 78201 52203 37421 ... 36343 22560 24147 Attention (message repeated) out	USB	(AB-POL)
E11a	8597	21-1	1000	Tue	305/21 Attention 20118 31561 75705 ... 79365 87131 35744 Attention (message repeated) Out	USB	(AB)
E11a	13908	23-1	0745	Thu	225/34 Attention 78201 52203 37421 ... 36343 22560 24147 Attention (message repeated) out	USB	(AB-POL)
E11a	5409	23-1	1530	Thu	264/36 Attention 47591 20802 31756 ... 57942 02191 39047 Attention (message repeated) Out	USB	(MPJ)

E11a	9130	24-1	0715	Fri	634/36 Attention 27683 04534 37511 ... 15111 13006 87951 Attention (message repeated) Out	USB	(AB)
E11a	8597	24-1	1000	Fri	305/21 Attention 20118 31561 75705 ... 79365 87131 35744 Attention (message repeated) Out	USB	(AB)
E11a	5082	24-1	1530	Fri	525/32 Attention 43654 78986 35900 ... 69484 29612 99196 Attention (message repeated) Out	USB	(AB/MPJ)
E11a	7984	27-1	1045	Mon	692/33 Attention 91739 08062 81258 ... 02005 98676 32289 Attention (message repeated) Out	USB	(AB)
E11a	6849	27-1	1900	Mon	649/31 Attention 94993 11179 73632 ... 33737 58393 20325 Attention (message repeated) Out	USB	(AB)
E11a	6804	28-1	0700	Tue	570/36 Attention 78138 23204 15936 ... 22600 18808 30441 Attention (message repeated) Out	USB	(AB)
E11a	12089	28-1	0845	Tue	151/37 Attention 31259 41018 26188 ... 51905 62098 75557 Attention (message repeated) Out	USB	(AB)
E11a	11450	29-1	0640	Wed	948/36 Attention 13840 90132 19339 ... 26821 40644 71624 Attention (message repeated) Out	USB	(AB)
E11a	7984	29-1	1045	Wed	692/33 Attention 91739 08062 81259 ... 02005 98676 32289 Attention (message repeated) Out	USB	(AB)
E11a	6804	31-1	0700	Fri	570/36 Attention 78138 23204 15936 ... 22600 18808 30441 Attention (message repeated) Out	USB	(AB)
E17	10240	30-1	1411	Thu	i.p. 274 (Rpt) ... 274 (Rpt) 893 10 11171 64385 ..... 78927 34694 893 10 0 0 0 0 0	USB	(ES-HOL)
E17	10240	30-1	1520	Thu	274 (Rpt) 893 10 11171 64385 82707 ..... 78927 34694 893 10 0 0 0 0 0	USB	(ES-HOL)
E17z	11170	2-1	0800	Thu	217 859 6 69856 82541 98423 79033 15452 10002 859 6 00000	USB	(AB)
E17z	9820	2-1	0810	Thu	217 859 6 69856 82541 98423 79033 15452 10002 859 6 00000	USB	(AB)
E17z	11170	9-1	0800	Thu	217 859 6 69856 82541 98423 79033 15452 10002 859 6 00000	USB	(AB)
E17z	9820	9-1	0810	Thu	217 859 6 69856 82541 98423 79033 15452 10002 859 6 00000	USB	(AB)
E17z	11170	16-1	0800	Thu	217 946 5 88620 58069 61732 74537 57330 946 5 00000	USB	(AB)
E17z	9820	16-1	0810	Thu	217 946 5 88620 58069 61732 74537 57330 946 5 00000	USB	(AB)
E17z	11170	23-1	0800	Thu	217 946 5 88620 58069 61732 74537 57330 946 5 00000	USB	(AB-RUS)
E17z	9820	23-1	0810	Thu	217 946 5 88620 58069 61732 74537 57330 946 5 00000	USB	(AB)
E17z	11170	30-1	0800	Thu	217 217 217 00000	USB	(AB)
E17z	9820	30-1	0810	Thu	217 217 217 00000	USB	(AB)
EGY	18030	1-1	0932	Wed	Egyptian embassy Niamey 20 1 1 130 / YFASR FAJ ... L H 1 // 02 JG : GSKJS KDS : KDJKQOH HTSKHGK DPSKMHWJ	SITOR-A 100/170	(Danix)
EGY	6789.7	3-1	1845	Fri	99910: MFA Cairo msg to 11102: Egyptian embassy Paris	SITOR-A 100/170 / CODAN	(AB)
EGY	9045	8-1	1903	Wed	MFA Cairo wkg 66601: Egyptian embassy Washington. FROM: 71 TO: WASHINGTON TIME & DATE: 20:36, WED-NESDAY, JANUARY 08, 2020 NR OF GROUPS: 160 URGENT	SITOR-A 100/170	(Danix)
EGY	9066	8-1	1913	Wed	MFA Cairo wkg 11102: Egyptian embassy Paris	Codan-16	(Danix)
EGY	9055	8-1	1918	Wed	MFA Cairo clg 00001: Egyptian embassy Algiers	SITOR-A 100/170	(Danix)
EGY	5116.7	12-1	1645	Sun	MFA Cairo. Messages In 4th Shift Arabic-80 mode to unid embassy	SITOR-A 100/170	(EW)
EGY	6777.7	22-1	1949	Wed	MFA Cairo clg TVVC: Egyptian embassy Baghdad	SITOR-A 100/170	(AB)
EGY	9157.7	26-1	1400	Sun	71: Egyptian Military Intelligence, Cairo msg to Egyptian embassy Islamabad	SITOR-A 100/170	(AB)
F01	7629	1-1	1940	Wed	Russian diplo/intel. 5761 00000	FSK 200/500	(AB-RUS/HFD)
F01	6783	1-1	1950	Wed	Russian diplo/intel. 5761 00000	FSK 200/500	(AB/HFD)
F01	4034	1-1	2000	Wed	Russian diplo/intel. 5761 00000	FSK 200/500	(AB/HFD)
F01	11079	2-1	1015	Thu	Russian diplo/intel. Two messages. 92323 93495 79961 ... 55284 95027 31123 00000 and 40336 43297 51436 ... 65043 68943 32054 00000	FSK 200/500	(AB)
F01	9162	2-1	1025	Thu	Russian diplo/intel. Two messages. 92323 93495 79961 ... 55284 95027 31123 00000 and 40336 43297 51436 ... 65043 68943 32054 00000	FSK 200/500	(AB)
F01	7509	2-1	1035	Thu	Russian diplo/intel. Two messages. 92323 93495 79961 ... 55284 95027 31123 00000 and 40336 43297 51436 ... 65043 68943 32054 00000	FSK 200/500	(AB)
F01	11079	3-1	1015	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	9162	3-1	1025	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	7509	3-1	1035	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	11079	6-1	1015	Mon	Russian diplo/intel. 60221 15975 76323 ... 47810 02677 33407 00000	FSK 200/500	(AB)

F01	9162	6-1	1025	Mon	Russian diplo/intel. 60221 15975 76323 ... 47810 02677 33407 00000	FSK 200/500	(AB)
F01	7509	6-1	1035	Mon	Russian diplo/intel. 60221 15975 76323 ... 47810 02677 33407 00000	FSK 200/500	(AB)
F01	11079	7-1	1015	Tue	Russian diplo/intel. Two messages. 97584 18575 65450 ... 73911 52303 34075 00000 and 07298 20522 41370 ... 37478 33365 35093 00000	FSK 200/500	(AB)
F01	9162	7-1	1025	Tue	Russian diplo/intel. Two messages. 97584 18575 65450 ... 73911 52303 34075 00000 and 07298 20522 41370 ... 37478 33365 35093 00000	FSK 200/500	(AB)
F01	7509	7-1	1035	Tue	Russian diplo/intel. Two messages. 97584 18575 65450 ... 73911 52303 34075 00000 and 07298 20522 41370 ... 37478 33365 35093 00000	FSK 200/500	(AB)
F01	11079	8-1	1015	Wed	Russian diplo/intel. 01266 23811 19764 ... 85702 12045 36423 00000	FSK 200/500	(AB)
F01	9162	8-1	1025	Wed	Russian diplo/intel. 01266 23811 19764 ... 85702 12045 36423 00000	FSK 200/500	(AB)
F01	7509	8-1	1035	Wed	Russian diplo/intel. 01266 23811 19764 ... 85702 12045 36423 00000	FSK 200/500	(AB)
F01	11079	9-1	1015	Thu	Russian diplo/intel. Two messages. 55610 14801 77350 ... 89026 75142 37073 00000 and 45194 56419 82953 ... 83426 63211 38097 00000	FSK 200/500	(AB/HFD)
F01	9162	9-1	1025	Thu	Russian diplo/intel. Two messages. 55610 14801 77350 ... 89026 75142 37073 00000 and 45194 56419 82953 ... 83426 63211 38097 00000	FSK 200/500	(AB/HFD)
F01	7509	9-1	1035	Thu	Russian diplo/intel. Two messages. 55610 14801 77350 ... 89026 75142 37073 00000 and 45194 56419 82953 ... 83426 63211 38097 00000	FSK 200/500	(AB/HFD)
F01	11079	10-1	1015	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	9162	10-1	1025	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	7509	10-1	1035	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	17411	10-1	2230	Fri	Russian diplo/intel. Header: 11177 00116 75312 09002 02039	FSK 200/500	(Danix-USA)
F01	15956	10-1	2240	Fri	Russian diplo/intel. Header: 11177 00116 75312 09002 02039	FSK 200/500	(Danix-USA)
F01	11079	13-1	1015	Mon	Russian diplo/intel. 13780 83147 51407 ... 16018 44730 39411 00000	FSK 200/500	(AB)
F01	9162	13-1	1025	Mon	Russian diplo/intel. 13780 83147 51407 ... 16018 44730 39411 00000	FSK 200/500	(AB)
F01	7509	13-1	1035	Mon	Russian diplo/intel. 13780 83147 51407 ... 16018 44730 39411 00000	FSK 200/500	(AB-RUS)
F01	11079	14-1	1015	Tue	Russian diplo/intel. Two messages. 93069 90349 77573 ... 15571 03515 40057 00000 and 80166 03365 91010 ... 63015 95887 41109 00000	FSK 200/500	(AB)
F01	9162	14-1	1025	Tue	Russian diplo/intel. Two messages. 93069 90349 77573 ... 15571 03515 40057 00000 and 80166 03365 91010 ... 63015 95887 41109 00000	FSK 200/500	(AB)
F01	7509	14-1	1035	Tue	Russian diplo/intel. Two messages. 93069 90349 77573 ... 15571 03515 40057 00000 and 80166 03365 91010 ... 63015 95887 41109 00000	FSK 200/500	(AB-RUS)
F01	11079	15-1	1015	Wed	Russian diplo/intel. 87676 43960 34410 ... 89323 48617 42421 00000	FSK 200/500	(AB)
F01	9162	15-1	1025	Wed	Russian diplo/intel. 87676 43960 34410 ... 89323 48617 42421 00000	FSK 200/500	(AB)
F01	7509	15-1	1035	Wed	Russian diplo/intel. 87676 43960 34410 ... 89323 48617 42421 00000	FSK 200/500	(AB-RUS)
F01	11079	16-1	1015	Thu	Russian diplo/intel. Two messages.	FSK 200/500	(AB)
F01	9162	16-1	1025	Thu	Russian diplo/intel. Two messages.	FSK 200/500	(AB)
F01	7509	16-1	1035	Thu	Russian diplo/intel. Two messages.	FSK 200/500	(AB-RUS)
F01	11079	17-1	1015	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	9162	17-1	1025	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	7509	17-1	1035	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	17411	17-1	2230	Fri	Russian diplo/intel. 11177 00116 74125 16003 01229	FSK 200/1000	(Danix)
F01	15956	17-1	2240	Fri	Russian diplo/intel. 11177 00116 74125 16003 01229	FSK 200/1000	(Danix)
F01	11079	20-1	1015	Mon	Russian diplo/intel. 25205 84747 32813 ... 83003 44391 45435 00000	FSK 200/500	(AB)
F01	9162	20-1	1025	Mon	Russian diplo/intel. 25205 84747 32813 ... 83003 44391 45435 00000	FSK 200/500	(AB)
F01	7509	20-1	1035	Mon	Russian diplo/intel. 25205 84747 32813 ... 83003 44391 45435 00000	FSK 200/500	(AB-RUS)
F01	11079	21-1	1015	Tue	Russian diplo/intel. Two messages.	FSK 200/500	(AB)

F01	9162	21-1	1025	Tue	Russian diplo/intel. Two messages.	FSK 200/500	(AB)
F01	7509	21-1	1035	Tue	Russian diplo/intel. Two messages.	FSK 200/500	(AB)
F01	11079	22-1	1015	Wed	Russian diplo/intel. 96088 72955 32797 ... 77167 64373 48441 00000	FSK 200/500	(AB)
F01	9162	22-1	1025	Wed	Russian diplo/intel. 96088 72955 32797 ... 77167 64373 48441 00000	FSK 200/500	(AB)
F01	7509	22-1	1035	Wed	Russian diplo/intel. 96088 72955 32797 ... 77167 64373 48441 00000	FSK 200/500	(AB-RUS)
F01	11079	23-1	1015	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	9162	23-1	1025	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	7509	23-1	1035	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	11079	24-1	1015	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	9162	24-1	1025	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	7509	24-1	1035	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	11079	27-1	1015	Mon	Russian diplo/intel. 26802 04975 14567 ... 41500 33270 51435 00000	FSK 200/500	(AB)
F01	9162	27-1	1025	Mon	Russian diplo/intel. 26802 04975 14567 ... 41500 33270 51435 00000	FSK 200/500	(AB)
F01	7509	27-1	1035	Mon	Russian diplo/intel. 26802 04975 14567 ... 41500 33270 51435 00000	FSK 200/500	(AB)
F01	11079	28-1	1015	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	9162	28-1	1025	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	7509	28-1	1035	Tue	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	11079	29-1	1015	Wed	Russian diplo/intel. 18937 58413 18934 ... 49967 28695 54437 00000	FSK 200/500	(AB)
F01	9162	29-1	1025	Wed	Russian diplo/intel. 18937 58413 18934 ... 49967 28695 54437 00000	FSK 200/500	(AB)
F01	7509	29-1	1035	Wed	Russian diplo/intel. 18937 58413 18934 ... 49967 28695 54437 00000	FSK 200/500	(AB)
F01	11079	30-1	1005	Thu	Russian diplo/intel. Test: 646464644/&646464644646464646464646	FSK 200/500	(AB)
F01	11079	30-1	1015	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	9162	30-1	1025	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	7509	30-1	1035	Thu	Russian diplo/intel. Two messages	FSK 200/500	(AB)
F01	11079	31-1	1015	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	9162	31-1	1025	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	7509	31-1	1035	Fri	Russian diplo/intel. 5761 00000	FSK 200/500	(AB)
F01	17411	31-1	2230	Fri	Russian diplo/intel. Header: 11177 00116 92364 31005 01839	FSK 200/500	(Danix-USA)
F01	15956	31-1	2240	Fri	Russian diplo/intel. Header: 11177 00116 92364 31005 01839	FSK 200/500	(Danix-USA)
F03a	14656	1-1	0800	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	14656	1-1	0805	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13046	1-1	1330	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13046	1-1	1335	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	2-1	1830	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	2-1	1835	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13046	3-1	1330	Fri	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13046	3-1	1335	Fri	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	6-1	1830	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	6-1	1835	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	14656	7-1	0800	Tue	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	14656	7-1	0805	Tue	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6480	7-1	1800	Tue	Polish intel.	FSK-2 100Bd/200Hz	(MPJ)
F03a	6480	7-1	1805	Tue	Polish intel.	FSK-2 100Bd/200Hz	(MPJ)
F03a	13424	8-1	0630	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	8-1	0635	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13046	8-1	1330	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)

F03a	13046	8-1	1335	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	9-1	1830	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	9-1	1835	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	13-1	0630	Mon	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	13-1	0635	Mon	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	13-1	1830	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	13-1	1835	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	15-1	0630	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	15-1	0635	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13046	15-1	1330	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03a	13046	15-1	1335	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB/MPJ)
F03a	6906	16-1	1830	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	16-1	1835	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	20-1	0630	Mon	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	20-1	0635	Mon	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	20-1	1830	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	20-1	1835	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	14656	21-1	0800	Tue	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	14656	21-1	0805	Tue	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	22-1	0630	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	22-1	0635	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	14656	22-1	0800	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03a	14656	22-1	0805	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03a	13046	22-1	1330	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13046	22-1	1335	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	23-1	1830	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	23-1	1835	Thu	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	27-1	0630	Mon	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	27-1	0635	Mon	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	27-1	1830	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6906	27-1	1835	Mon	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	14656	28-1	0800	Tue	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	14656	28-1	0805	Tue	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6480	28-1	1800	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	6480	28-1	1805	Tue	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	29-1	0630	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	13424	29-1	0635	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03a	14656	29-1	0800	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03a	14656	29-1	0805	Wed	Polish Intel.	FSK-2 100Bd/200Hz	(AB-POL)
F03c	8800	3-1	0940	Fri	Polish intel.	FSK-2 400Bd/960Hz	(AB)
F03c	8800	3-1	0945	Fri	Polish intel.	FSK-2 400Bd/960Hz	(AB)
F03c	8800	6-1	0940	Mon	Polish intel.	FSK-2 400Bd/960Hz	(AB)
F03c	8800	6-1	0945	Mon	Polish intel.	FSK-2 400Bd/960Hz	(AB)
F03c	8800	13-1	0940	Mon	Polish intel.	FSK-2 400Bd/960Hz	(AB)
F03c	8800	13-1	0945	Mon	Polish intel.	FSK-2 400Bd/960Hz	(AB)
F03c	8800	20-1	0940	Mon	Polish intel.	FSK-2 400Bd/960Hz	(AB)

F03c	8800	20-1	0945	Mon	Polish intel.	FSK-2 400Bd/960Hz	(AB)
F03c	8800	27-1	0940	Mon	Polish intel.	FSK-2 400Bd/960Hz	(AB)
F03c	8800	27-1	0945	Mon	Polish intel.	FSK-2 400Bd/960Hz	(AB)
F03c	8800	31-1	0940	Fri	Polish intel.	FSK-2 400Bd/960Hz	(AB)
F03c	8800	31-1	0945	Fri	Polish intel.	FSK-2 400Bd/960Hz	(AB)
F03j	5946	2-1	0915	Thu	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	2-1	0920	Thu	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	6-1	1030	Mon	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	6-1	1035	Mon	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	8-1	0915	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	8-1	0920	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	8-1	1030	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	8-1	1035	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	9-1	0915	Thu	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	9-1	0920	Thu	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	13-1	1030	Mon	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	13-1	1035	Mon	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	15-1	0915	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	15-1	0920	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	15-1	1030	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	15-1	1035	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	16-1	0915	Thu	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	16-1	0920	Thu	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	20-1	1030	Mon	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	20-1	1035	Mon	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	22-1	0915	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	22-1	0920	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	22-1	1030	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	22-1	1035	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	23-1	0915	Thu	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	23-1	0920	Thu	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	27-1	1030	Mon	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	27-1	1035	Mon	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	29-1	0915	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	29-1	0920	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	29-1	1030	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	7837	29-1	1035	Wed	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	30-1	0915	Thu	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03j	5946	30-1	0920	Thu	Polish Intel.	FSK-4 100Bd/400Hz	(AB)
F03I	4909	2-1	0615	Thu	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03I	4909	2-1	0620	Thu	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03I	8680	3-1	0945	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	8680	3-1	0950	Fri	Polish intel.	FSK-2 100Bd/200Hz	(AB)
F03I	13424	6-1	0630	Mon	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03I	13424	6-1	0635	Mon	Polish Intel.	FSK-2 100Bd/200Hz	(AB)
F03I	4909	7-1	0615	Tue	Polish Intel.	FSK-2 100Bd/200Hz	(AB)

F03I	4909	7-1	0620	Tue	Polish Intel.		FSK-2 100Bd/200Hz	(AB)
F03I	4909	9-1	0615	Thu	Polish Intel.		FSK-2 100Bd/200Hz	(AB)
F03I	4909	9-1	0620	Thu	Polish Intel.		FSK-2 100Bd/200Hz	(AB)
F03I	4909	14-1	0615	Tue	Polish Intel.		FSK-2 100Bd/200Hz	(AB)
F03I	4909	14-1	0620	Tue	Polish Intel.		FSK-2 100Bd/200Hz	(AB)
F03I	4909	16-1	0615	Thu	Polish Intel.		FSK-2 100Bd/200Hz	(AB)
F03I	4909	16-1	0620	Thu	Polish Intel.		FSK-2 100Bd/200Hz	(AB)
F03I	4909	28-1	0615	Tue	Polish Intel.		FSK-2 100Bd/200Hz	(AB)
F03I	4909	28-1	0620	Tue	Polish Intel.		FSK-2 100Bd/200Hz	(AB)
F03I	4909	30-1	0615	Thu	Polish Intel.		FSK-2 100Bd/200Hz	(AB)
F03I	4909	30-1	0620	Thu	Polish Intel.		FSK-2 100Bd/200Hz	(AB)
F06	10294	1-1	0710	Wed	Russian diplo/intel. Header: 11166 70202 35946 31067 02759		FSK 200/1000	(AB)
F06	8068	1-1	0720	Wed	Russian diplo/intel. Header: 11166 70202 35946 31067 02759		FSK 200/1000	(AB)
F06	12154	1-1	1200	Wed	Russian diplo/intel. Header: 11166 70202 35946 31067 02759		FSK 200/1000	(AB)
F06	10158	1-1	1210	Wed	Russian diplo/intel. Header: 11166 70202 35946 31067 02759		FSK 200/1000	(AB)
F06	8023	1-1	1220	Wed	Russian diplo/intel. Header: 11166 70202 35946 31067 02759		FSK 200/1000	(AB)
F06	12177	2-1	0700	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 13589 30068 01879 and 11166 70202 56981 30069 02089		FSK 200/1000	(AB)
F06	10294	2-1	0710	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 13589 30068 01879 and 11166 70202 56981 30069 02089		FSK 200/1000	(AB)
F06	8068	2-1	0720	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 13589 30068 01879 and 11166 70202 56981 30069 02089		FSK 200/1000	(AB)
F06	8038	2-1	0800	Thu	Russian diplo/intel. 11166 70048 74123 02001 00049 00000 00000 00000 00000		FSK 200/1000	(AB)
F06	7417	2-1	0810	Thu	Russian diplo/intel. 11166 70048 74123 02001 00049 00000 00000 00000 00000		FSK 200/1000	(AB)
F06	5825	2-1	0820	Thu	Russian diplo/intel. 11166 70048 74123 02001 00049 00000 00000 00000 00000		FSK 200/1000	(AB)
F06	12154	2-1	1200	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 13589 30068 01879 and 11166 70202 56981 30069 02089		FSK 200/1000	(AB)
F06	10158	2-1	1210	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 13589 30068 01879 and 11166 70202 56981 30069 02089		FSK 200/1000	(AB)
F06	8023	2-1	1220	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 13589 30068 01879 and 11166 70202 56981 30069 02089		FSK 200/1000	(AB)
F06	12186	2-1	1330	Thu	Russian diplo/intel. 11166 80214 15637 02073 00049 00000 00000 00000 00000		FSK 200/1000	(AB)
F06	10243	2-1	1340	Thu	Russian diplo/intel. 11166 80214 15637 02073 00049 00000 00000 00000 00000		FSK 200/1000	(AB)
F06	8175	2-1	1350	Thu	Russian diplo/intel. 11166 80214 15637 02073 00049 00000 00000 00000 00000		FSK 200/1000	(AB)
F06	12177	3-1	0700	Fri	Russian diplo/intel. 11166 70202 85697 03043 00049 00000 00000 00000 00000		FSK 200/1000	(AB-AUT)
F06	10294	3-1	0710	Fri	Russian diplo/intel. 11166 70202 85697 03043 00049 00000 00000 00000 00000		FSK 200/1000	(AB)
F06	8068	3-1	0720	Fri	Russian diplo/intel. 11166 70202 85697 03043 00049 00000 00000 00000 00000		FSK 200/1000	(AB)
F06	18276	4-1	1500	Sat	Russian diplo/intel. 11166 40133 14789 04001 00049 00000 00000 00000 00000		FSK 200/1000	(AB-POL)
F06	16213	4-1	1510	Sat	Russian diplo/intel. 11166 40133 14789 04001 00049 00000 00000 00000 00000		FSK 200/1000	(AB-POL)
F06	14493	4-1	1520	Sat	Russian diplo/intel. 11166 40133 14789 04001 00049 00000 00000 00000 00000		FSK 200/1000	(AB-POL)
F06	10378	5-1	1530	Sun	Russian diplo/intel. 11166 10053 23698 05001 00049 00000 00000 00000 00000		FSK 200/1000	(AB)
F06	9169	5-1	1540	Sun	Russian diplo/intel. 11166 10053 23698 05001 00049 00000 00000 00000 00000		FSK 200/1000	(AB)
F06	6419	5-1	1550	Sun	Russian diplo/intel. 11166 10053 23698 05001 00049 00000 00000 00000 00000		FSK 200/1000	(AB)
F06	12177	6-1	0700	Mon	Russian diplo/intel. Header: 11166 70202 45687 30070 02479		FSK 200/1000	(AB)
F06	10294	6-1	0710	Mon	Russian diplo/intel. Header: 11166 70202 45687 30070 02479		FSK 200/1000	(AB)
F06	8068	6-1	0720	Mon	Russian diplo/intel. Header: 11166 70202 45687 30070 02479		FSK 200/1000	(AB)

F06	12154	6-1	1200	Mon	Russian diplo/intel. 11166 70202 45687 30070 02479	FSK 200/1000	(AB/MPJ)
F06	10158	6-1	1210	Mon	Russian diplo/intel. 11166 70202 45687 30070 02479	FSK 200/1000	(AB/MPJ)
F06	8023	6-1	1220	Mon	Russian diplo/intel. 11166 70202 45687 30070 02479	FSK 200/1000	(AB/MPJ)
F06	12177	7-1	0700	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 15974 30071 01579 and 11166 70202 95147 30072 01859	FSK 200/1000	(AB)
F06	10294	7-1	0710	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 15974 30071 01579 and 11166 70202 95147 30072 01859	FSK 200/1000	(AB)
F06	8068	7-1	0720	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 15974 30071 01579 and 11166 70202 95147 30072 01859	FSK 200/1000	(AB)
F06	12154	7-1	1200	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 15974 30071 01579 and 11166 70202 95147 30072 01859	FSK 200/1000	(AB)
F06	10158	7-1	1210	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 15974 30071 01579 and 11166 70202 95147 30072 01859	FSK 200/1000	(AB)
F06	8023	7-1	1220	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 15974 30071 01579 and 11166 70202 95147 30072 01859	FSK 200/1000	(AB)
F06	10383	7-1	1650	Tue	Russian diplo/intel. 11166 10053 17935 07163 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9046	7-1	1700	Tue	Russian diplo/intel. 11166 10053 17935 07163 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	7313	7-1	1710	Tue	Russian diplo/intel. 11166 10053 17935 07163 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	20154	8-1	0600	Wed	Russian diplo/intel. Two messages. Header: 11166 40122 63482 04067 03129 and 11166 40122 19584 04068 02729	FSK 200/1000	(AB-J)
F06	18304	8-1	0610	Wed	Russian diplo/intel. Two messages. Header: 11166 40122 63482 04067 03129 and 11166 40122 19584 04068 02729	FSK 200/1000	(AB-J)
F06	16156	8-1	0620	Wed	Russian diplo/intel. Two messages. Header: 11166 40122 63482 04067 03129 and 11166 40122 19584 04068 02729	FSK 200/1000	(AB-J)
F06	12177	8-1	0700	Wed	Russian diplo/intel. Header: 11166 70202 56987 30073 02789	FSK 200/1000	(AB)
F06	10294	8-1	0710	Wed	Russian diplo/intel. Header: 11166 70202 56987 30073 02789	FSK 200/1000	(AB)
F06	8068	8-1	0720	Wed	Russian diplo/intel. Header: 11166 70202 56987 30073 02789	FSK 200/1000	(AB)
F06	19667	8-1	0900	Wed	Russian diplo/intel. Header: 11166 00052 98741 08052 01699	FSK 200/1000	(AB-RUS)
F06	17546	8-1	0910	Wed	Russian diplo/intel. Header: 11166 00052 98741 08052 01699	FSK 200/1000	(AB)
F06	15604	8-1	0920	Wed	Russian diplo/intel. Header: 11166 00052 98741 08052 01699	FSK 200/1000	(AB)
F06	12154	8-1	1200	Wed	Russian diplo/intel. Header: 11166 70202 56987 30073 02789	FSK 200/1000	(AB)
F06	10158	8-1	1210	Wed	Russian diplo/intel. Header: 11166 70202 56987 30073 02789	FSK 200/1000	(AB)
F06	8023	8-1	1220	Wed	Russian diplo/intel. Header: 11166 70202 56987 30073 02789	FSK 200/1000	(AB)
F06	12177	9-1	0700	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 26085 09074 01619 and 11166 70202 40237 09075 01839	FSK 200/1000	(AB)
F06	10294	9-1	0710	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 26085 09074 01619 and 11166 70202 40237 09075 01839	FSK 200/1000	(AB)
F06	8068	9-1	0720	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 26085 09074 01619 and 11166 70202 40237 09075 01839	FSK 200/1000	(AB)
F06	8038	9-1	0800	Thu	Russian diplo/intel. 11166 70048 23658 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7417	9-1	0810	Thu	Russian diplo/intel. 11166 70048 23658 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5825	9-1	0820	Thu	Russian diplo/intel. 11166 70048 23658 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19667	9-1	0900	Thu	Russian diplo/intel. Header: 11166 00052 98741 08052 01699	FSK 200/1000	(AB-RUS)
F06	17546	9-1	0910	Thu	Russian diplo/intel. Header: 11166 00052 98741 08052 01699	FSK 200/1000	(AB)
F06	15604	9-1	0920	Thu	Russian diplo/intel. Header: 11166 00052 98741 08052 01699	FSK 200/1000	(AB)



F06	12154	9-1	1200	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 26085 09074 01619 and 11166 70202 40237 09075 01839	FSK 200/1000	(AB)
F06	10158	9-1	1210	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 26085 09074 01619 and 11166 70202 40237 09075 01839	FSK 200/1000	(AB)
F06	8023	9-1	1220	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 26085 09074 01619 and 11166 70202 40237 09075 01839	FSK 200/1000	(AB)
F06	12186	9-1	1330	Thu	Russian diplo/intel. 11166 80214 61427 19054 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10243	9-1	1340	Thu	Russian diplo/intel. 11166 80214 61427 19054 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8175	9-1	1350	Thu	Russian diplo/intel. 11166 80214 61427 19054 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12177	10-1	0700	Fri	Russian diplo/intel. 11166 70202 87645 10090 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10294	10-1	0710	Fri	Russian diplo/intel. 11166 70202 87645 10090 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8068	10-1	0720	Fri	Russian diplo/intel. 11166 70202 87645 10090 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18276	11-1	1500	Sat	Russian diplo/intel. 11166 40133 17935 11038 00049 00000 00000 00000 00000	FSK 200/1000	(AB-G)
F06	16213	11-1	1510	Sat	Russian diplo/intel. 11166 40133 17935 11038 00049 00000 00000 00000 00000	FSK 200/1000	(AB-G)
F06	14493	11-1	1520	Sat	Russian diplo/intel. 11166 40133 17935 11038 00049 00000 00000 00000 00000	FSK 200/1000	(AB-G)
F06	10378	12-1	1530	Sun	Russian diplo/intel. 11166 10053 14789 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9169	12-1	1540	Sun	Russian diplo/intel. 11166 10053 14789 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6419	12-1	1550	Sun	Russian diplo/intel. 11166 10053 14789 12001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	12177	13-1	0700	Mon	Russian diplo/intel. Header: 11166 70202 78456 10076 02559	FSK 200/1000	(AB-POL)
F06	10294	13-1	0710	Mon	Russian diplo/intel. Header: 11166 70202 78456 10076 02559	FSK 200/1000	(AB)
F06	8068	13-1	0720	Mon	Russian diplo/intel. Header: 11166 70202 78456 10076 02559	FSK 200/1000	(AB)
F06	12154	13-1	1200	Mon	Russian diplo/intel. 11166 70202 78456 10076 02559	FSK 200/1000	(AB)
F06	10158	13-1	1210	Mon	Russian diplo/intel. 11166 70202 78456 10076 02559	FSK 200/1000	(AB)
F06	8023	13-1	1220	Mon	Russian diplo/intel. 11166 70202 78456 10076 02559	FSK 200/1000	(AB)
F06	12177	14-1	0700	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 75249 13077 01799 and 11166 70202 23491 13078 02619	FSK 200/1000	(AB)
F06	10294	14-1	0710	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 75249 13077 01799 and 11166 70202 23491 13078 02619	FSK 200/1000	(AB)
F06	8068	14-1	0720	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 75249 13077 01799 and 11166 70202 23491 13078 02619	FSK 200/1000	(AB)
F06	12154	14-1	1200	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 75249 13077 01799 and 11166 70202 23491 13078 02619	FSK 200/1000	(AB)
F06	10158	14-1	1210	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 75249 13077 01799 and 11166 70202 23491 13078 02619	FSK 200/1000	(AB)
F06	8023	14-1	1220	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 75249 13077 01799 and 11166 70202 23491 13078 02619	FSK 200/1000	(AB)
F06	10383	14-1	1650	Tue	Russian diplo/intel. 11166 10053 97531 14071 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	9046	14-1	1700	Tue	Russian diplo/intel. 11166 10053 97531 14071 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	7313	14-1	1710	Tue	Russian diplo/intel. 11166 10053 97531 14071 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	12177	15-1	0700	Wed	Russian diplo/intel. Header: 11166 70202 12369 14079 02659	FSK 200/1000	(AB)
F06	10294	15-1	0710	Wed	Russian diplo/intel. Header: 11166 70202 12369 14079 02659	FSK 200/1000	(AB)
F06	8068	15-1	0720	Wed	Russian diplo/intel. Header: 11166 70202 12369 14079 02659	FSK 200/1000	(AB)
F06	12154	15-1	1200	Wed	Russian diplo/intel. Header: 11166 70202 12369 14079 02659	FSK 200/1000	(AB)
F06	10158	15-1	1210	Wed	Russian diplo/intel. Header: 11166 70202 12369 14079 02659	FSK 200/1000	(AB)
F06	8023	15-1	1220	Wed	Russian diplo/intel. Header: 11166 70202 12369 14079 02659	FSK 200/1000	(AB)

F06	12177	16-1	0700	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 35971 15080 01539 and 11166 70202 59416 15081 01739	FSK 200/1000	(AB)
F06	10294	16-1	0710	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 35971 15080 01539 and 11166 70202 59416 15081 01739	FSK 200/1000	(AB)
F06	8068	16-1	0720	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 35971 15080 01539 and 11166 70202 59416 15081 01739	FSK 200/1000	(AB)
F06	8038	16-1	0800	Thu	Russian diplo/intel. 11166 70048 14789 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7417	16-1	0810	Thu	Russian diplo/intel. 11166 70048 14789 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5825	16-1	0820	Thu	Russian diplo/intel. 11166 70048 14789 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12154	16-1	1200	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 35971 15080 01539 and 11166 70202 59416 15081 01739	FSK 200/1000	(AB)
F06	10158	16-1	1210	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 35971 15080 01539 and 11166 70202 59416 15081 01739	FSK 200/1000	(AB)
F06	8023	16-1	1220	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 35971 15080 01539 and 11166 70202 59416 15081 01739	FSK 200/1000	(AB)
F06	12186	16-1	1330	Thu	Russian diplo/intel. 11166 80214 61427 16056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10243	16-1	1340	Thu	Russian diplo/intel. 11166 80214 61427 16056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8175	16-1	1350	Thu	Russian diplo/intel. 11166 80214 61427 16056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12177	17-1	0700	Fri	Russian diplo/intel. 11166 70202 97641 17099 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10294	17-1	0710	Fri	Russian diplo/intel. 11166 70202 97641 17099 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8068	17-1	0720	Fri	Russian diplo/intel. 11166 70202 97641 17099 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10378	19-1	1530	Sun	Russian diplo/intel. 11166 10053 17935 19176 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9169	19-1	1540	Sun	Russian diplo/intel. 11166 10053 17935 19176 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6419	19-1	1550	Sun	Russian diplo/intel. 11166 10053 17935 19176 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6925	20-1	0500	Mon	Russian diplo/intel. 11166 07005 95397 120172 00049 000000 00000 00000 00000	FSK 200/1000	(AB)
F06	5235	20-1	0510	Mon	Russian diplo/intel. 11166 07005 95397 120172 00049 000000 00000 00000 00000	FSK 200/1000	(AB)
F06	4528	20-1	0520	Mon	Russian diplo/intel. 11166 07005 95397 120172 00049 000000 00000 00000 00000	FSK 200/1000	(AB)
F06	12177	20-1	0700	Mon	Russian diplo/intel. Header: 11166 70202 15987 17082 02459	FSK 200/1000	(AB)
F06	10294	20-1	0710	Mon	Russian diplo/intel. Header: 11166 70202 15987 17082 02459	FSK 200/1000	(AB)
F06	8068	20-1	0720	Mon	Russian diplo/intel. Header: 11166 70202 15987 17082 02459	FSK 200/1000	(AB)
F06	12154	20-1	1200	Mon	Russian diplo/intel. 11166 70202 15987 17082 02459	FSK 200/1000	(AB)
F06	10158	20-1	1210	Mon	Russian diplo/intel. 11166 70202 15987 17082 02459	FSK 200/1000	(AB)
F06	8023	20-1	1220	Mon	Russian diplo/intel. 11166 70202 15987 17082 02459	FSK 200/1000	(AB)
F06	10164	21-1	0030	Tue	Russian diplo/intel. 11166 60070 14789 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8179	21-1	0040	Tue	Russian diplo/intel. 11166 60070 14789 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6786	21-1	0050	Tue	Russian diplo/intel. 11166 60070 14789 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12177	21-1	0700	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64231 20083 01599 and 11166 70202 79451 20084 01839	FSK 200/1000	(AB)
F06	10294	21-1	0710	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64231 20083 01599 and 11166 70202 79451 20084 01839	FSK 200/1000	(AB)
F06	8068	21-1	0720	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64231 20083 01599 and 11166 70202 79451 20084 01839	FSK 200/1000	(AB)
F06	12154	21-1	1200	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64231 20083 01599 and 11166 70202 79451 20084 01839	FSK 200/1000	(AB)
F06	10158	21-1	1210	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64231 20083 01599 and 11166 70202 79451 20084 01839	FSK 200/1000	(AB)

F06	8023	21-1	1220	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64231 20083 01599 and 11166 70202 79451 20084 01839	FSK 200/1000	(AB)
F06	10383	21-1	1650	Tue	Russian diplo/intel. 11166 60070 14789 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	9046	21-1	1700	Tue	Russian diplo/intel. 11166 60070 14789 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS/MPJ)
F06	7313	21-1	1710	Tue	Russian diplo/intel. 11166 60070 14789 21001 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	12177	22-1	0700	Wed	Russian diplo/intel. Header: 11166 70202 89547 21085 02159	FSK 200/1000	(AB)
F06	10294	22-1	0710	Wed	Russian diplo/intel. Header: 11166 70202 89547 21085 02159	FSK 200/1000	(AB)
F06	8068	22-1	0720	Wed	Russian diplo/intel. Header: 11166 70202 89547 21085 02159	FSK 200/1000	(AB)
F06	19667	22-1	0900	Wed	Russian diplo/intel. Header: 11166 00052 78694 22053 01089	FSK 200/1000	(AB-KWT)
F06	17546	22-1	0910	Wed	Russian diplo/intel. Header: 11166 00052 78694 22053 01089	FSK 200/1000	(AB-KWT)
F06	15604	22-1	0920	Wed	Russian diplo/intel. Header: 11166 00052 78694 22053 01089	FSK 200/1000	(AB)
F06	12154	22-1	1200	Wed	Russian diplo/intel. Header: 11166 70202 89547 21085 02159	FSK 200/1000	(AB)
F06	10158	22-1	1210	Wed	Russian diplo/intel. Header: 11166 70202 89547 21085 02159	FSK 200/1000	(AB)
F06	8023	22-1	1220	Wed	Russian diplo/intel. Header: 11166 70202 89547 21085 02159	FSK 200/1000	(AB)
F06	12177	23-1	0700	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 76549 22086 02039 and 11166 70202 15982 22087 01259	FSK 200/1000	(AB-HNG)
F06	10294	23-1	0710	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 76549 22086 02039 and 11166 70202 15982 22087 01259	FSK 200/1000	(AB)
F06	8068	23-1	0720	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 76549 22086 02039 and 11166 70202 15982 22087 01259	FSK 200/1000	(AB)
F06	8038	23-1	0800	Thu	Russian diplo/intel. 11166 70048 17935 23176 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7417	23-1	0810	Thu	Russian diplo/intel. 11166 70048 17935 23176 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5825	23-1	0820	Thu	Russian diplo/intel. 11166 70048 17935 23176 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19667	23-1	0900	Thu	Russian diplo/intel. Header: 11166 00052 78694 22053 01089	FSK 200/1000	(AB-KWT)
F06	17546	23-1	0910	Thu	Russian diplo/intel. Header: 11166 00052 78694 22053 01089	FSK 200/1000	(AB-KWT)
F06	15604	23-1	0920	Thu	Russian diplo/intel. Header: 11166 00052 78694 22053 01089	FSK 200/1000	(AB)
F06	12154	23-1	1200	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 76549 22086 02039 and 11166 70202 15982 22087 01259	FSK 200/1000	(AB)
F06	10158	23-1	1210	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 76549 22086 02039 and 11166 70202 15982 22087 01259	FSK 200/1000	(AB)
F06	8023	23-1	1220	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 76549 22086 02039 and 11166 70202 15982 22087 01259	FSK 200/1000	(AB/MPJ)
F06	12186	23-1	1330	Thu	Russian diplo/intel. 11166 80214 15380 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10243	23-1	1340	Thu	Russian diplo/intel. 11166 80214 15380 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8175	23-1	1350	Thu	Russian diplo/intel. 11166 80214 15380 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12177	24-1	0700	Fri	Russian diplo/intel. 11166 70202 85697 24079 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10294	24-1	0710	Fri	Russian diplo/intel. 11166 70202 85697 24079 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8068	24-1	0720	Fri	Russian diplo/intel. 11166 70202 85697 24079 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10378	26-1	1530	Sun	Russian diplo/intel. 11166 10053 13579 26067 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	9169	26-1	1540	Sun	Russian diplo/intel. 11166 10053 13579 26067 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	6419	26-1	1550	Sun	Russian diplo/intel. 11166 10053 13579 26067 00049 00000 00000 00000 00000	FSK 200/1000	(AB/MPJ)
F06	12177	27-1	0700	Mon	Russian diplo/intel. Header: 11166 70202 15648 24088 02199	FSK 200/1000	(AB)
F06	10294	27-1	0710	Mon	Russian diplo/intel. Header: 11166 70202 15648 24088 02199	FSK 200/1000	(AB)
F06	8068	27-1	0720	Mon	Russian diplo/intel. Header: 11166 70202 15648 24088 02199	FSK 200/1000	(AB)
F06	12154	27-1	1200	Mon	Russian diplo/intel. 11166 70202 15648 24088 02199	FSK 200/1000	(AB)
F06	10158	27-1	1210	Mon	Russian diplo/intel. 11166 70202 15648 24088 02199	FSK 200/1000	(AB)

F06	8023	27-1	1220	Mon	Russian diplo/intel. 11166 70202 15648 24088 02199	FSK 200/1000	(AB)
F06	10164	28-1	0030	Tue	Russian diplo/intel. 11166 60070 53971 28349 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8179	28-1	0040	Tue	Russian diplo/intel. 11166 60070 53971 28349 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	6786	28-1	0050	Tue	Russian diplo/intel. 11166 60070 53971 28349 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12177	28-1	0700	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64521 27089 01859 and 11166 70202 91457 27090 01699	FSK 200/1000	(AB)
F06	10294	28-1	0710	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64521 27089 01859 and 11166 70202 91457 27090 01699	FSK 200/1000	(AB)
F06	8068	28-1	0720	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64521 27089 01859 and 11166 70202 91457 27090 01699	FSK 200/1000	(AB)
F06	12154	28-1	1200	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64521 27089 01859 and 11166 70202 91457 27090 01699	FSK 200/1000	(AB)
F06	10158	28-1	1210	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64521 27089 01859 and 11166 70202 91457 27090 01699	FSK 200/1000	(AB)
F06	8023	28-1	1220	Tue	Russian diplo/intel. Two messages. Headers: 11166 70202 64521 27089 01859 and 11166 70202 91457 27090 01699	FSK 200/1000	(AB)
F06	10383	28-1	1650	Tue	Russian diplo/intel. 11166 10053 14789 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	9046	28-1	1700	Tue	Russian diplo/intel. 11166 10053 14789 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB-RUS)
F06	7313	28-1	1710	Tue	Russian diplo/intel. 11166 10053 14789 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12177	29-1	0700	Wed	Russian diplo/intel. Header: 11166 70202 65341 28091 02559	FSK 200/1000	(AB)
F06	10294	29-1	0710	Wed	Russian diplo/intel. Header: 11166 70202 65341 28091 02559	FSK 200/1000	(AB)
F06	8068	29-1	0720	Wed	Russian diplo/intel. Header: 11166 70202 65341 28091 02559	FSK 200/1000	(AB)
F06	12154	29-1	1200	Wed	Russian diplo/intel. Header: 11166 70202 65341 28091 02559	FSK 200/1000	(AB)
F06	10158	29-1	1210	Wed	Russian diplo/intel. Header: 11166 70202 65341 28091 02559	FSK 200/1000	(AB)
F06	8023	29-1	1220	Wed	Russian diplo/intel. Header: 11166 70202 65341 28091 02559	FSK 200/1000	(AB)
F06	12177	30-1	0700	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 85319 29092 02139 and 11166 70202 32671 29093 02199	FSK 200/1000	(AB)
F06	10294	30-1	0710	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 85319 29092 02139 and 11166 70202 32671 29093 02199	FSK 200/1000	(AB)
F06	8068	30-1	0720	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 85319 29092 02139 and 11166 70202 32671 29093 02199	FSK 200/1000	(AB)
F06	8038	30-1	0800	Thu	Russian diplo/intel. 11166 70048 78945 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7417	30-1	0810	Thu	Russian diplo/intel. 11166 70048 78945 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5825	30-1	0820	Thu	Russian diplo/intel. 11166 70048 78945 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12154	30-1	1200	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 85319 29092 02139 and 11166 70202 32671 29093 02199	FSK 200/1000	(AB)
F06	10158	30-1	1210	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 85319 29092 02139 and 11166 70202 32671 29093 02199	FSK 200/1000	(AB)
F06	8023	30-1	1220	Thu	Russian diplo/intel. Two messages. Headers: 11166 70202 85319 29092 02139 and 11166 70202 32671 29093 02199	FSK 200/1000	(AB)
F06	12186	30-1	1320	Thu	Russian diplo/intel. Test: 646464644/&6464646464	FSK 200/1000	(AB)
F06	12186	30-1	1330	Thu	Russian diplo/intel. 11166 80214 85217 30019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10243	30-1	1340	Thu	Russian diplo/intel. 11166 80214 85217 30019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8175	30-1	1350	Thu	Russian diplo/intel. 11166 80214 85217 30019 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12177	31-1	0700	Fri	Russian diplo/intel. 11166 70202 54781 31051 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	10294	31-1	0710	Fri	Russian diplo/intel. 11166 70202 54781 31051 00049 00000 00000 00000 00000	FSK 200/1000	(AB)

<b>F06</b>	8068	31-1	0720	Fri	Russian diplo/intel. 11166 70202 54781 31051 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
<b>G06</b>	3605	6-1	1700	Mon	731 731 731 00000	USB	(AB/HFD)
<b>G06</b>	4028	8-1	1300	Wed	731 731 731 00000 Windows shut down sound	USB	(AB-RUS)
<b>G06</b>	4519	9-1	1830	Thu	271 241 45 12435 76426 05698 ... 12346 73416 32442 241 45 00000 Windows shut down sound	USB	(AB)
<b>G06</b>	4792	10-1	1917	Fri	111	USB	(HFD)
<b>G06</b>	4792	10-1	1930	Fri	436 242 44 31532 37905 68553 ... 78223 80329 38780 242 44 00000 Windows XP shutdown sound	USB	(AB/MPJ/HFD)
<b>G06</b>	4519	23-1	1745	Thu	111 111 111 00000	USB	(AB)
<b>G06</b>	4519	23-1	1749	Thu	111 111 111 00000	USB	(AB)
<b>G06</b>	4519	23-1	1830	Thu	271 271 44 11532 37595 68553 ... 78203 80329 38780 271 44 00000 Windows XP shutdown sound	USB	(AB)
<b>G06</b>	4792	24-1	1930	Fri	436 271 44 11532 37595 68553 ... 78203 80329 38780 271 44 00000 Windows XP shutdown sound	USB	(AB/MPJ)
<b>HM01</b>	9240	1-1	0900	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
<b>HM01</b>	11435	1-1	1600	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
<b>HM01</b>	11635	1-1	2100	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	10715	1-1	2251	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(BL)
<b>HM01</b>	12180	2-1	1000	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	11435	2-1	1600	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
<b>HM01</b>	16180	2-1	2100	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	17480	2-1	2200	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	9155	3-1	1030	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
<b>HM01</b>	11435	3-1	1600	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
<b>HM01</b>	11635	3-1	2100	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	10715	3-1	2200	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	12180	4-1	1000	Sat	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	11435	4-1	1600	Sat	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
<b>HM01</b>	11435	5-1	1600	Sun	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
<b>HM01</b>	11435	6-1	1600	Mon	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
<b>HM01</b>	11635	6-1	2100	Mon	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	10715	6-1	2100	Mon	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	11435	7-1	1600	Tue	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
<b>HM01</b>	11435	8-1	1600	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
<b>HM01</b>	11635	8-1	2100	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	10715	8-1	2200	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	12180	9-1	1000	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	11435	9-1	1600	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
<b>HM01</b>	17480	9-1	2200	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	9065	10-1	0830	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
<b>HM01</b>	9240	10-1	0900	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
<b>HM01</b>	9155	10-1	1000	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
<b>HM01</b>	11530	10-1	1700	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
<b>HM01</b>	11435	11-1	1600	Sat	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
<b>HM01</b>	17480	11-1	2200	Sat	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
<b>HM01</b>	9330	12-1	0700	Sun	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
<b>HM01</b>	9065	12-1	0800	Sun	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
<b>HM01</b>	11530	12-1	1700	Sun	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
<b>HM01</b>	10715	12-1	2200	Sun	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(Dan)
<b>HM01</b>	9240	13-1	0900	Mon	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)

HM01	9155	13-1	1000	Mon	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	11435	13-1	1600	Mon	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	11635	13-1	2100	Mon	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
HM01	11635	13-1	2200	Mon	77236 61724 01307 67503 26321 03484 (Repeat of 5 Nov 2019) Should be on 10715 kHz	AM/RDFT	(RL/Dan)
HM01	11435	14-1	1600	Tue	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	17480	14-1	2200	Tue	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(Dan)
HM01	9240	15-1	0900	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	11435	15-1	1600	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2/BW3)
HM01	11435	16-1	1600	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9065	17-1	0800	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9240	17-1	0900	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	11530	17-1	1700	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	11435	18-1	1600	Sat	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	11435	18-1	1600	Sat	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	9330	19-1	0700	Sun	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9330	19-1	0800	Sun	77236 61724 01307 67503 26321 03484 (Repeat of 5 Nov 2019). Should be on 9065 kHz	AM/RDFT	(AB)
HM01	9330	19-1	0900	Sun	77236 61724 01307 67503 26321 03484 (Repeat of 5 Nov 2019). Should be on 9240 kHz	AM/RDFT	(AB)
HM01	9155	19-1	1000	Sun	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	11435	19-1	1630	Sun	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	9330	20-1	0700	Mon	77236 61724 01307 67503 26321 03484 (Repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	11435	21-1	1600	Tue	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	9065	22-1	0800	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9240	22-1	0900	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	11635	22-1	1800	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	11635	23-1	1830	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9240	24-1	0900	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9155	24-1	1000	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	11435	24-1	1600	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	11435	24-1	1630	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	11635	24-1	2100	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
HM01	10715	24-1	2200	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
HM01	9330	26-1	0700	Sun	Carrier only	AM/RDFT	(AB)
HM01	9065	26-1	0800	Sun	Carrier only	AM/RDFT	(AB)
HM01	9240	26-1	0900	Sun	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9155	26-1	1000	Sun	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	11435	26-1	1630	Sun	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	9330	27-1	0700	Mon	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9065	27-1	0800	Mon	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	11435	27-1	1600	Mon	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	10860	29-1	0500	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9330	29-1	0730	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9065	29-1	0800	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9240	29-1	0900	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9155	29-1	1000	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	11435	29-1	1600	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	11530	29-1	1718	Wed	i.p. 77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(BW3)

HM01	11635	29-1	2100	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
HM01	10715	29-1	2200	Wed	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
HM01	11435	30-1	1600	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	16180	30-1	2100	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
HM01	17480	30-1	2200	Thu	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
HM01	9065	31-1	0830	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	9155	31-1	1000	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(AB)
HM01	11435	31-1	1600	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RR2)
HM01	11635	31-1	2100	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
HM01	10715	31-1	2200	Fri	77236 61724 01307 67503 26321 03484 (repeat of 5 Nov 2019)	AM/RDFT	(RL)
M01	5320	2-1	1804	Thu	Active/unreadable	CW	(MPJ-HNG)
M01	4490	2-1	2000	Thu	197 528 528 30 30 = = 76749 64281 00061 ... 52407 44890 07473 = = 528 528 30 30 000	CW	(AB)
M01	5810	4-1	1500	Sat	197 112 112 30 30 = = 09390 33818 ...	CW	(AB/ES)
M01	5465	5-1	0700	Sun	197 281 281 30 30 = = 98869 51726 81174 ... 49540 76904 41757 = = 281 281 30 30 000	CW	(ES-HOL)
M01	5320	7-1	1800	Tue	197 411 = 30 411 = 30 = = 16745 39813 72027 ... 94581 10451 23000 = = 411 411 = 30 30 000	CW	(AB)
M01	4490	7-1	2000	Tue	197 537 537 = 30 30 = = 90753 28170 24802 ... 55627 72732 00371 = = 537 537 = 30 30 000	CW	(AB/MPJ)
M01	4490	9-1	2000	Thu	197 617 617 30 30 = = 87909 51391 34394 ... 91792 84371 07773 = = 617 617 30 30 000	CW	(AB/ES)
M01	5810	11-1	1500	Sat	197 825 825 30 30 = = 16745 39813 20527 ... 94581 10451 23000 = = 825 825 30 000	CW	(AB/MPJ/ES-HOL)
M01	5465	12-1	0700	Sun	197 602 602 602 60 26 = 30 30 = = 90753 28170 24802 ... 55627 72732 00371 = = 602 602 = 30 30 000	CW	(AB/ES-HOL)
M01	5320	14-1	1800	Tue	197 ... (too weak to copy)	CW	(AB)
M01	4490	14-1	2000	Tue	197 373 373 30 30 = = 02930 93173 76863 ... 97259 21380 38791 = = 373 373 30 30 000	CW	(AB/MPJ/ES-HOL)
M01	5320	16-1	1800	Thu	197 407 407 = 30 30 = = 69504 02741 13043 80514 ... = = 407 407 = 30 30 000	CW	(AB-RUS)
M01	4490	16-1	2000	Thu	197 219 219 = 30 30 = = 83217 45759 88305 ... 44728 89077 71629 = = 219 219 = 30 30 000	CW	(AB)
M01	5810	18-1	1500	Sat	197 157 157 30 30 = = 95122 22219 51591 ... 67641 84882 33087 = = 157 157 30 30 000	CW	(MPJ)
M01	5465	19-1	0700	Sun	197 981 981 30 30 = = 98366 30933 90124 ... 40248 74576 12712 = = 981 981 30 30 000	CW	(AB/ES-HOL)
M01	5320	21-1	1800	Tue	197 121 121 30 30 = = 33113 23410(?) 77373 ... 61415 61902(?) 03382 = = 121 121 30 30 000	CW	(MPJ)
M01	4490	21-1	2000	Tue	197 117 117 30 30 = = 71040 24332 73019 ... 31053 97031 08045 = = 117 117 30 30 000	CW	(AB)
M01	4490	23-1	2000	Thu	197 746 746 30 30 = = 24035 48158 25486 ... 38210 85387 89067 = = 746 746 30 30 000	CW	(AB)
M01	5810	25-1	1501	Sat	197 371 371 30 30 // 02493 02493 60231 60231 ..... 89266 89266 38439 38439 // 371 371 30 30 0 0 0	CW	(ES-HOL)
M01	5465	26-1	0700	Sun	197 387 387 30 30 = = 31341 56081 08039 ... 49493 08206 43523 = = 387 387 30 30 000	CW	(AB/ES-HOL)
M01	5320	28-1	1800	Tue	197 223 223 30 30 = = 51940 45671 02731 ... 64411 78504 41254 = = 223 223 30 30 000	CW	(AB)
M01	4490	28-1	2000	Tue	197 411 30 411 30 = = 64350 58217 59661 11414 ... 92551 = = 411 30 411 30 000	CW	(AB)
M01	5320	30-1	1800	Thu	197 599 599 30 30 = = 38447 90200 24094 ... 97015 40218 01661 = = 599 599 30 30 000	CW	(AB-POL)
M01	4490	30-1	2000	Thu	197 974 974 30 30 = = 33977 01651 10458 ... 86867 13173 24202 = = 974 974 30 30 000	CW	(AB-RUS)
M01a	4989	8-1	0925	Wed	i.p. = 648 10 111 000	CW	(F5JBR)
M01a	4146	15-1	0816	Wed	i.p. 832 83 832 83291 83291 832 83 832 83291 83291 111 000	CW	(ES-POL)
M01a	4544	15-1	1105	Wed	i.p. 111 333 18 111 999 856 10 / xxxxx xx860 54023 73880 58969 73841 63834 61556 63795 99637 / 856 10 000	CW	(ES-POL)
M01a	4418	15-1	1522	Wed	i.p. 333 31998 31998 333 32538 32538 333 33138 33138	CW	(ES-POL)
M01a	4987	16-1	0945	Thu	i.p. x5389 11 999 85810 = 10 = 98746 5 85810 = 98746 54651 68174 35719 65431 51742 63272 14965 34165 86745 = 858 10	CW	(ES-POL)
M01a	5306	16-1	0947	Thu	i.p. 111 111 0 3 0 1 783 783 783 111 999 0 651 30 = 02982 36354 43603 ... 111 000	CW	(ES-POL)
M01a	4987	16-1	0952	Thu	31 351 351 63893 63893 51 351 351 63893 63893 351 111 999	CW	(ES-POL)
M01a	5858	27-1	0746	Mon	564 546 564 56912 56912 564 564 564 55886 55886	CW	(F5JBR)
M01a	5173	27-1	0800	Mon	564 564 564 24262 24262	CW	(F5JBR)
M01a	6769	27-1	0902	Mon	598 598 598 30482 30482 598 598 598 10482 10482 598 598 598 12274 12274	CW	(F5JBR)
M01a	4989	28-1	1027	Tue	i.p. 316 (x3) 67362 (x2) 316 (x3) 6736.. 111 0 0 0	CW	(ES-HOL)

<b>M01a</b>	4989	28-1	1313	Tue	316 (x3) 67279 (x2) 316 (x3) 672 ... 111 999 619 10 = 47035 47684 32168 ... 74061 03549 80416 = 619 10 111 = 47684 111 0 0 0	CW	(ES-HOL)
<b>M01a</b>	5744	28-1	1612	Tue	273 273 273 625 09 625 09 273 273 273 628 08 628 08 273 273 273 632 88 632 08	CW	(F5JBR)
<b>M01a</b>	4321	29-1	0916	Wed	i.p. 61121 61121 267 (x3) 61121 (x2) (Rx5) 267 (x3) 61041 267 (x3) 61041 (x2) (Rx6)	CW	(ES-HOL)
<b>M01a</b>	3830	29-1	1355	Wed	903 903 903 957 87 957 97 903 903 903 957 87 957 97 111 111 111 000	CW	(F5JBR)
<b>M01b</b>	3545	2-1	1932	Thu	910 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 00 (two zero's) //2470 kHz	MCW	(AB/MPJ)
<b>M01b</b>	2470	2-1	1932	Thu	910 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 00 (two zero's) //3545 kHz	MCW	(AB/MPJ)
<b>M01b</b>	3160	2-1	2040	Thu	382 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2485 kHz	MCW	(AB)
<b>M01b</b>	2485	2-1	2040	Thu	382 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3160 kHz	MCW	(AB)
<b>M01b</b>	2655	3-1	2002	Fri	866 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3195 kHz	MCW	(AB)
<b>M01b</b>	3195	3-1	2002	Fri	866 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2655 kHz	MCW	(AB)
<b>M01b</b>	2405	3-1	2110	Fri	610 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3180 kHz	MCW	(AB)
<b>M01b</b>	3180	3-1	2110	Fri	610 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2405 kHz	MCW	(AB)
<b>M01b</b>	2435	6-1	1910	Mon	853 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3520 kHz	MCW	(AB/MPJ)
<b>M01b</b>	3520	6-1	1910	Mon	853 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2435 kHz	MCW	(AB/MPJ)
<b>M01b</b>	3205	6-1	2015	Mon	375 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2425 kHz	MCW	(AB)
<b>M01b</b>	2425	6-1	2015	Mon	375 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3205 kHz	MCW	(AB)
<b>M01b</b>	3545	9-1	1932	Thu	910 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2470 kHz	MCW	(AB/MPJ)
<b>M01b</b>	2470	9-1	1932	Thu	910 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3545 kHz	MCW	(AB/MPJ)
<b>M01b</b>	3160	9-1	2040	Thu	Carrier only //2485 kHz: no transmission	MCW	(AB)
<b>M01b</b>	2485	9-1	2040	Thu	No transmission //3160 kHz: carrier only	MCW	(AB)
<b>M01b</b>	2655	10-1	2002	Fri	866 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3195 kHz	MCW	(AB/MPJ)
<b>M01b</b>	3195	10-1	2002	Fri	866 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2655 kHz	MCW	(AB/MPJ)
<b>M01b</b>	3180	10-1	2110	Fri	610 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2405 kHz	MCW	(AB)
<b>M01b</b>	2405	10-1	2110	Fri	610 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3180 kHz	MCW	(AB)
<b>M01b</b>	2435	13-1	1910	Mon	853 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3520 kHz	MCW	(AB/MPJ)
<b>M01b</b>	3520	13-1	1910	Mon	853 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2435 kHz	MCW	(AB/MPJ)
<b>M01b</b>	3205	13-1	2015	Mon	375 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2425 kHz	MCW	(AB)
<b>M01b</b>	2425	13-1	2015	Mon	375 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3205 kHz	MCW	(AB)
<b>M01b</b>	3545	16-1	1932	Thu	910 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2470 kHz	MCW	(AB)
<b>M01b</b>	2470	16-1	1932	Thu	910 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3545 kHz	MCW	(AB)
<b>M01b</b>	3160	16-1	2040	Thu	382 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2485 kHz	MCW	(AB)
<b>M01b</b>	2485	16-1	2040	Thu	382 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3160 kHz	MCW	(AB)
<b>M01b</b>	2655	17-1	2002	Fri	866 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3195 kHz	MCW	(AB)
<b>M01b</b>	3195	17-1	2002	Fri	866 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2655 kHz	MCW	(AB)
<b>M01b</b>	3180	17-1	2110	Fri	610 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2405 kHz	MCW	(AB)
<b>M01b</b>	2405	17-1	2110	Fri	610 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3180 kHz	MCW	(AB)
<b>M01b</b>	3520	20-1	1910	Mon	853 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2435 kHz no transmission	MCW	(AB/MPJ)
<b>M01b</b>	3205	20-1	2015	Mon	375 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2425 kHz no transmission	MCW	(AB)
<b>M01b</b>	2470	23-1	1932	Thu	910 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3545 kHz	MCW	(AB/MPJ)
<b>M01b</b>	3545	23-1	1932	Thu	910 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2470 kHz	MCW	(AB/MPJ)
<b>M01b</b>	2485	23-1	2040	Thu	382 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3160 kHz	MCW	(AB)
<b>M01b</b>	3160	23-1	2040	Thu	382 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //2485 kHz	MCW	(AB)
<b>M01b</b>	2655	24-1	2002	Fri	866 712 712 31 31 = = 04590 89706 14348 ... 21891 90085 79437 = = 712 712 31 31 000 //3195 kHz	MCW	(AB/MPJ)



<b>M01b</b>	3195	24-1	2002	Fri	866 712 712 31 31 == 04590 89706 14348 ... 21891 90085 79437 == 712 712 31 31 000 //2655 kHz	MCW	(AB/MPJ)
<b>M01b</b>	2405	24-1	2110	Fri	610 712 712 31 31 == 04590 89706 14348 ... 21891 90085 79437 == 712 712 31 31 000 //3180 kHz	MCW	(AB)
<b>M01b</b>	3180	24-1	2110	Fri	610 712 712 31 31 == 04590 89706 14348 ... 21891 90085 79437 == 712 712 31 31 000 //2405 kHz	MCW	(AB)
<b>M01b</b>	2435	27-1	1910	Mon	853 712 712 31 31 == 04590 89706 14348 ... 21891 90085 79437 == 712 712 31 31 000 //3520 kHz	MCW	(AB)
<b>M01b</b>	3520	27-1	1910	Mon	853 712 712 31 31 == 04590 89706 14348 ... 21891 90085 79437 == 712 712 31 31 000 //2435 kHz	MCW	(AB)
<b>M01b</b>	2425	27-1	2015	Mon	375 712 712 31 31 == 04590 89706 14348 ... 21891 90085 79437 == 712 712 31 31 000 //3205 kHz	MCW	(AB)
<b>M01b</b>	3205	27-1	2015	Mon	375 712 712 31 31 == 04590 89706 14348 ... 21891 90085 79437 == 712 712 31 31 000 //2425 kHz	MCW	(AB)
<b>M01b</b>	2470	30-1	1932	Thu	Carrier only //3545 kHz	MCW	(AB)
<b>M01b</b>	3545	30-1	1932	Thu	Carrier only //2470 kHz	MCW	(AB)
<b>M01b</b>	2485	30-1	2040	Thu	Carrier only //3160 kHz	MCW	(AB)
<b>M01b</b>	3160	30-1	2040	Thu	Carrier only //2485 kHz	MCW	(AB)
<b>M01b</b>	3195	31-1	2002	Fri	866 712 712 31 31 == 04590 89706 14348 ... 21891 90085 79437 == 712 712 31 31 000 //2655 kHz	MCW	(AB/MPJ)
<b>M01b</b>	2655	31-1	2002	Fri	866 712 712 31 31 == 04590 89706 14348 ... 21891 90085 79437 == 712 712 31 31 000 //3195 kHz	MCW	(AB/MPJ)
<b>M01b</b>	3180	31-1	2110	Fri	610 712 712 31 31 == 04590 89706 14348 ... 21891 90085 79437 == 712 712 31 31 000 //2405 kHz	MCW	(AB)
<b>M01b</b>	2405	31-1	2110	Fri	610 712 712 31 31 == 04590 89706 14348 ... 21891 90085 79437 == 712 712 31 31 000 //3180 kHz	MCW	(AB)
<b>M12</b>	13932	1-1	1310	Wed	951 951 951 000	CW	(AB/HFD)
<b>M12</b>	13532	1-1	1330	Wed	951 951 951 000	CW	(AB/HFD)
<b>M12</b>	10547	1-1	1400	Wed	505 505 505 000	CW	(AB)
<b>M12</b>	9047	1-1	1420	Wed	505 505 505 000	CW	(AB)
<b>M12</b>	6864	1-1	2050	Wed	875 875 875 000	CW	(AB/RL)
<b>M12</b>	5764	1-1	2110	Wed	875 875 875 000	CW	(AB/RL)
<b>M12</b>	6937	2-1	2210	Thu	975 975 975 000	CW	(AB/RL)
<b>M12</b>	5737	2-1	2230	Thu	975 975 975 000	CW	(AB/RL)
<b>M12</b>	13932	3-1	1310	Fri	951 951 951 000	CW	(AB)
<b>M12</b>	13532	3-1	1330	Fri	951 951 951 000	CW	(AB)
<b>M12</b>	6864	3-1	2050	Fri	875 875 875 000	CW	(AB/RL/HFD)
<b>M12</b>	5764	3-1	2110	Fri	875 875 875 000	CW	(AB/RL/HFD)
<b>M12</b>	5778	3-1	2200	Fri	771 771 771 000	CW	(AB/RL/ES)
<b>M12</b>	6778	3-1	2220	Fri	771 771 771 000	CW	(AB/RL/ES)
<b>M12</b>	5778	4-1	2200	Sat	771 771 771 000	CW	(AB)
<b>M12</b>	6778	4-1	2220	Sat	771 771 771 000	CW	(AB)
<b>M12</b>	6786	5-1	0600	Sun	792 792 792 000	CW	(ES)
<b>M12</b>	7986	5-1	0620	Sun	792 792 792 000	CW	(ES)
<b>M12</b>	16357	5-1	0800	Sun	343 343 343 000	CW	(AB/ES)
<b>M12</b>	17457	5-1	0820	Sun	343 343 343 000	CW	(AB/ES)
<b>M12</b>	10547	6-1	1400	Mon	505 505 505 000	CW	(AB/ES/HFD)
<b>M12</b>	9047	6-1	1420	Mon	505 505 505 000	CW	(AB/ES/HFD)
<b>M12</b>	6937	6-1	2210	Mon	975 975 975 000	CW	(AB/RL/HFD)
<b>M12</b>	5737	6-1	2230	Mon	975 975 975 000	CW	(AB/RL/HFD)
<b>M12</b>	6786	7-1	0600	Tue	792 792 792 000	CW	(AB/ES/HFD)
<b>M12</b>	7986	7-1	0620	Tue	792 792 792 000	CW	(AB/ES/HFD)
<b>M12</b>	16357	8-1	0800	Wed	343 343 343 000	CW	(AB/ES)
<b>M12</b>	17457	8-1	0820	Wed	343 343 343 000	CW	(AB/ES)
<b>M12</b>	13932	8-1	1310	Wed	951 951 951 000	CW	(AB/MPJ/ES)
<b>M12</b>	13532	8-1	1330	Wed	951 951 951 000	CW	(AB/MPJ/ES)
<b>M12</b>	10547	8-1	1400	Wed	505 505 505 000	CW	(AB/ES)

M12	9047	8-1	1420	Wed	505 505 505 000	CW	(AB/ES)
M12	6864	8-1	2050	Wed	875 875 875 000	CW	(AB/RL)
M12	5764	8-1	2110	Wed	875 875 875 000	CW	(AB/RL)
M12	12162	9-1	1700	Thu	546 546 546 1 2285 107 2285 107 75419 30520 77315 ... 71711 10628 21580 000 000	CW	(AB-RUS/MPJ)
M12	11566	9-1	1720	Thu	546 546 546 1 2285 107 2285 107 75419 30520 77315 ... 71711 10628 21580 000 000	CW	(AB-RUS/MPJ)
M12	10711	9-1	1740	Thu	546 546 546 1 2285 107 2285 107 75419 30520 77315 ... 71711 10628 21580 000 000	CW	(AB-RUS/MPJ)
M12	12162	9-1	1800	Thu	546 546 546 1 5247 105 5247 105 41348 41169 55492 ... 36480 45508 15058 000 000	CW	(AB-RUS)
M12	11566	9-1	1820	Thu	546 546 546 1 5247 105 5247 105 41348 41169 55492 ... 36480 45508 15058 000 000	CW	(AB-RUS)
M12	10711	9-1	1840	Thu	546 546 546 1 5247 105 5247 105 41348 41169 55492 ... 36480 45508 15058 000 000	CW	(AB-RUS)
M12	6937	9-1	2210	Thu	975 975 975 000	CW	(AB/RL/ES)
M12	5737	9-1	2230	Thu	975 975 975 000	CW	(AB/RL/ES)
M12	13932	10-1	1310	Fri	951 951 951 000	CW	(ES-HOL)
M12	13532	10-1	1330	Fri	951 951 951 000	CW	(ES-HOL)
M12	6864	10-1	2050	Fri	875 875 875 000	CW	(AB/RL/ES)
M12	5764	10-1	2110	Fri	875 875 875 000	CW	(AB/RL/ES)
M12	5778	10-1	2200	Fri	771 771 771 000	CW	(AB/RL/ES/HFD)
M12	6778	10-1	2220	Fri	771 771 771 000	CW	(AB/RL/ES/HFD)
M12	8047	11-1	2000	Sat	463 463 463 1 8486 100 8486 100 09773 01251 08783 ... 15086 69644 89221 000 000	CW	(AB)
M12	6802	11-1	2020	Sat	463 463 463 1 8486 100 8486 100 09773 01251 08783 ... 15086 69644 89221 000 000	CW	(AB)
M12	5788	11-1	2040	Sat	463 463 463 1 8486 100 8486 100 09773 01251 08783 ... 15086 69644 89221 000 000	CW	(AB)
M12	5778	11-1	2200	Sat	771 771 771 000	CW	(AB/RL/ES)
M12	6778	11-1	2220	Sat	771 771 771 000	CW	(AB/RL/ES)
M12	11439	12-1	0110	Sun	432 432 432 1 9423 86 9423 86 06052 22717 84831 22679 09957 ...	CW	(AB)
M12	10339	12-1	0130	Sun	432 432 432 1 9423 86 9423 86 06052 22717 84831 22679 09957 ...	CW	(AB)
M12	9239	12-1	0150	Sun	432 432 432 1 9423 86 9423 86 06052 22717 84831 22679 09957 ...	CW	(AB)
M12	6786	12-1	0600	Sun	792 792 792 1 6506 88 6506 88 71491 69262 44256 ... 55107 97319 53413 000 000	CW	(AB/ES)
M12	7986	12-1	0620	Sun	792 792 792 1 6506 88 6506 88 71491 69262 44256 ... 55107 97319 53413 000 000	CW	(AB/ES)
M12	9286	12-1	0640	Sun	792 792 792 1 6506 88 6506 88 71491 69262 44256 ... 55107 97319 53413 000 000	CW	(AB/ES)
M12	16357	12-1	0800	Sun	343 343 343 000	CW	(AB/ES)
M12	17457	12-1	0820	Sun	343 343 343 000	CW	(AB)
M12	10547	13-1	1400	Mon	505 505 505 1 424 144 424 144 39000 64142 44869 ... 05988 94427 21955 000 000	CW	(AB/ES)
M12	9047	13-1	1420	Mon	505 505 505 1 424 144 424 144 39000 64142 44869 ... 05988 94427 21955 000 000	CW	(AB/ES)
M12	7547	13-1	1440	Mon	505 505 505 1 424 144 424 144 39000 64142 44869 ... 05988 94427 21955 000 000	CW	(AB/ES)
M12	8047	13-1	1800	Mon	463 463 463 1 5441 99 5441 99 64189 19437 99052 ... 22682 80768 68876 000 000	CW	(AB)
M12	6802	13-1	1820	Mon	463 463 463 1 5441 99 5441 99 64189 19437 99052 ... 22682 80768 68876 000 000	CW	(AB)
M12	5788	13-1	1840	Mon	463 463 463 1 5441 99 5441 99 64189 19437 99052 ... 22682 80768 68876 000 000	CW	(AB)
M12	6937	13-1	2210	Mon	975 975 975 000	CW	(AB/RL/ES)
M12	5737	13-1	2230	Mon	975 975 975 000	CW	(AB/RL/ES)
M12	9317	14-1	0530	Tue	135 135 135 1 5755 112 5755 112 93619 77656 03808 ... 24610 28078 09831 000 000	CW	(AB/ES)
M12	10484	14-1	0550	Tue	135 135 135 1 5755 112 5755 112 93619 77656 03808 ... 24610 28078 09831 000 000	CW	(AB/ES)
M12	6786	14-1	0600	Tue	792 792 792 1 401 156 401 156 25426 51360 79119 ... 41871 43270 56576 000 000	CW	(AB/ES)
M12	11552	14-1	0610	Tue	135 135 135 1 5755 112 5755 112 93619 77656 03808 ... 24610 28078 09831 000 000	CW	(AB/ES)
M12	7986	14-1	0620	Tue	792 792 792 1 401 156 401 156 25426 51360 79119 ... 41871 43270 56576 000 000	CW	(AB/ES)
M12	9286	14-1	0640	Tue	792 792 792 1 401 156 401 156 25426 51360 79119 ... 41871 43270 56576 000 000	CW	(AB/ES)
M12	16357	15-1	0800	Wed	343 343 343 000	CW	(AB)
M12	17457	15-1	0820	Wed	343 343 343 000	CW	(AB/ES)

M12	13932	15-1	1310	Wed	951 951 951 000	CW	(AB/MPJ)
M12	13532	15-1	1330	Wed	951 951 951 000	CW	(AB/MPJ/ES)
M12	10547	15-1	1400	Wed	505 505 505 1 424 144 424 144 39000 64142 44869 ... 05988 94427 21955 000 000	CW	(AB/ES)
M12	9047	15-1	1420	Wed	505 505 505 1 424 144 424 144 39000 64142 44869 ... 05988 94427 21955 000 000	CW	(AB/ES)
M12	7547	15-1	1440	Wed	505 505 505 1 424 144 424 144 39000 64142 44869 ... 05988 94427 21955 000 000	CW	(AB/ES)
M12	12162	15-1	1710	Wed	546 1 3280 104 51890 89125 07079 ... 44613 34839 97123 000 000	CW	(MPJ-POL)
M12	10711	15-1	1715	Wed	546 1 3280 104 51890 89125 07079 ... 44613 34839 97123 000 000	CW	(MPJ-POL)
M12	11566	15-1	1730	Wed	546 1 3280 104 51890 89125 07079 ... 44613 34839 97123 000 000	CW	(MPJ-POL)
M12	6864	15-1	2050	Wed	875 875 875 000	CW	(AB/ES)
M12	5764	15-1	2110	Wed	875 875 875 000	CW	(AB/ES)
M12	11439	16-1	0110	Thu	432 432 432 1 9581 108 9581 108 52423 45118 38883 ... 87237 03673 23089 000 000	CW	(AB/ES)
M12	10339	16-1	0130	Thu	432 432 432 1 9581 108 9581 108 52423 45118 38883 ... 87237 03673 23089 000 000	CW	(AB/ES)
M12	9239	16-1	0150	Thu	432 432 432 1 9581 108 9581 108 52423 45118 38883 ... 87237 03673 23089 000 000	CW	(AB)
M12	12162	16-1	1700	Thu	546 546 546 1 8775 111 8775 111 49429 47794 93353 ... 79119 42746 98983 000 000	CW	(AB-POL)
M12	11566	16-1	1720	Thu	546 546 546 1 8775 111 8775 111 49429 47794 93353 ... 79119 42746 98983 000 000	CW	(AB-POL)
M12	10711	16-1	1740	Thu	546 546 546 1 8775 111 8775 111 49429 47794 93353 ... 79119 42746 98983 000 000	CW	(AB-POL)
M12	12162	16-1	1800	Thu	546 546 546 1 1646 108 1646 108 69536 66683 39296 ... 42625 07363 99819 000 000	CW	(AB-POL)
M12	11566	16-1	1820	Thu	546 546 546 1 1646 108 1646 108 69536 66683 39296 ... 42625 07363 99819 000 000	CW	(AB-POL)
M12	10711	16-1	1840	Thu	546 546 546 1 1646 108 1646 108 69536 66683 39296 ... 42625 07363 99819 000 000	CW	(AB-POL)
M12	6937	16-1	2210	Thu	975 975 975 000	CW	(AB/ES)
M12	5737	16-1	2230	Thu	975 975 975 000	CW	(AB/ES)
M12	13932	17-1	1310	Fri	951 951 951 000	CW	(AB/ES)
M12	13532	17-1	1330	Fri	951 951 951 000	CW	(AB/ES)
M12	6864	17-1	2050	Fri	875 875 875 000	CW	(AB/ES)
M12	5764	17-1	2110	Fri	875 875 875 000	CW	(AB/ES)
M12	5778	17-1	2200	Fri	771 771 771 000	CW	(AB/ES)
M12	6778	17-1	2220	Fri	771 771 771 000	CW	(AB/ES)
M12	8047	18-1	2000	Sat	463 463 463 1 7187 93 7187 93 16095 82748 70081 ... 53184 75901 52006 000 000	CW	(AB/ES-HOL)
M12	6802	18-1	2020	Sat	463 463 463 1 7187 93 7187 93 16095 82748 70081 ... 53184 75901 52006 000 000	CW	(AB/ES-HOL)
M12	5788	18-1	2040	Sat	463 463 463 1 7187 93 7187 93 16095 82748 70081 ... 53184 75901 52006 000 000	CW	(AB)
M12	5778	18-1	2200	Sat	771 771 771 000	CW	(AB)
M12	6778	18-1	2220	Sat	771 771 771 000	CW	(AB)
M12	11439	19-1	0110	Sun	432 432 432 1 9581 108 9581 108 52423 45118 38883 ... 87237 03673 23089 000 000	CW	(AB/ES-HOL)
M12	10339	19-1	0130	Sun	432 432 432 1 9581 108 9581 108 52423 45118 38883 ... 87237 03673 23089 000 000	CW	(AB/ES-HOL)
M12	9239	19-1	0150	Sun	432 432 432 1 9581 108 9581 108 52423 45118 38883 ... 87237 03673 23089 000 000	CW	(AB/ES-HOL)
M12	6786	19-1	0600	Sun	792 792 792 1 401 156 401 156 25426 51360 79119 ... 41871 43270 56576 000 000	CW	(AB/ES-HOL)
M12	7986	19-1	0620	Sun	792 792 792 1 401 156 401 156 25426 51360 79119 ... 41871 43270 56576 000 000	CW	(AB/ES-HOL)
M12	9286	19-1	0640	Sun	792 792 792 1 401 156 401 156 25426 51360 79119 ... 41871 43270 56576 000 000	CW	(AB/ES-HOL)
M12	16357	19-1	0800	Sun	343 343 343 000	CW	(AB/ES-HOL)
M12	17457	19-1	0820	Sun	343 343 343 000	CW	(AB/ES-HOL)
M12	10547	20-1	1400	Mon	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/MPJ/ES-HOL)
M12	9047	20-1	1420	Mon	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/MPJ/ES-HOL)
M12	7547	20-1	1440	Mon	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/MPJ/ES-HOL)
M12	6937	20-1	2210	Mon	975 975 975 1 187 84 187 84 36467 18445 58273 ... 80685 82859 25693 000 000	CW	(AB/ES-HOL)
M12	5737	20-1	2230	Mon	975 975 975 1 187 84 187 84 36467 18445 58273 ... 80685 82859 25693 000 000	CW	(AB/ES-HOL)
M12	4537	20-1	2250	Mon	975 975 975 1 187 84 187 84 36467 18445 58273 ... 80685 82859 25693 000 000	CW	(AB/ES-HOL)

M12	9317	21-1	0530	Tue	135 135 135 1 ...	CW	(AB/ES-HOL)
M12	10484	21-1	0550	Tue	135 1 8986 112 33352 51726 ..... 28892 67461 000 000	CW	(ES-HOL)
M12	6786	21-1	0600	Tue	792 1 7582 112 28047 88206 ..... 08912 09404 000 000	CW	(ES-HOL)
M12	11552	21-1	0610	Tue	135 1 8986 112 33352 51726 ..... 28892 67461 000 000	CW	(ES-HOL)
M12	7986	21-1	0620	Tue	792 1 7582 112 28047 88206 ..... 08912 09404 000 000	CW	(ES-HOL)
M12	9286	21-1	0640	Tue	792 1 7582 112 28047 88206 ..... 08912 09404 000 000	CW	(ES-HOL)
M12	16357	22-1	0800	Wed	343 343 343 1 465 123 465 123 90569 86073 23564 ... 34077 92816 84542 000 000	CW	(AB-RUS/ES-HOL)
M12	17457	22-1	0820	Wed	343 343 343 1 465 123 465 123 90569 86073 23564 ... 34077 92816 84542 000 000	CW	(AB-RUS/ES-HOL)
M12	18357	22-1	0840	Wed	343 343 343 1 465 123 465 123 90569 86073 23564 ... 34077 92816 84542 000 000	CW	(AB-RUS/ES-HOL)
M12	13932	22-1	1310	Wed	951 951 951 000	CW	(AB/MPJ/ES-HOL)
M12	13532	22-1	1330	Wed	951 951 951 000	CW	(AB/MPJ/ES-HOL)
M12	10547	22-1	1400	Wed	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/MPJ/ES-HOL)
M12	9047	22-1	1420	Wed	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/MPJ)
M12	7547	22-1	1440	Wed	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/MPJ)
M12	12162	22-1	1710	Wed	546 1 8270 108 57968 47573 00870 ... 41991 01010 89834 000 000	CW	(MPJ)
M12	10711	22-1	1715	Wed	546 1 8270 108 57968 47573 00870 ... 41991 01010 89834 000 000	CW	(MPJ)
M12	11566	22-1	1730	Wed	546 1 8270 108 57968 47573 00870 ... 41991 01010 89834 000 000	CW	(MPJ)
M12	6864	22-1	2050	Wed	875 875 875 000	CW	(AB/RL/ES-HOL)
M12	5764	22-1	2110	Wed	875 875 875 000	CW	(AB/RL/ES-HOL)
M12	12162	23-1	1700	Thu	546 1 4268 104 14507 71584 31837 ... 78321 95010 52916 000 000	CW	(MPJ-RUS)
M12	11566	23-1	1720	Thu	546 1 4268 104 14507 71584 31837 ... 78321 95010 52916 000 000	CW	(MPJ-RUS)
M12	10711	23-1	1740	Thu	546 1 4268 104 14507 71584 31837 ... 78321 95010 52916 000 000	CW	(MPJ-RUS)
M12	6937	23-1	2210	Thu	975 975 975 1 187 84 187 84 36467 18445 58273 ... 80685 82859 25693 000 000	CW	(AB/ES-HOL)
M12	5737	23-1	2230	Thu	975 975 975 1 187 84 187 84 36467 18445 58273 ... 80685 82859 25693 000 000	CW	(AB/ES-HOL)
M12	4537	23-1	2250	Thu	975 975 975 1 187 84 187 84 36467 18445 58273 ... 80685 82859 25693 000 000	CW	(AB/ES-HOL)
M12	13932	24-1	1310	Fri	951 951 951 000	CW	(AB)
M12	13532	24-1	1330	Fri	951 951 951 000	CW	(AB)
M12	6864	24-1	2050	Fri	875 875 875 000	CW	(AB/RL/ES-HOL)
M12	5764	24-1	2110	Fri	875 875 875 000	CW	(AB/RL)
M12	5778	24-1	2200	Fri	771 771 771 000	CW	(AB/RL/ES-HOL)
M12	6778	24-1	2220	Fri	771 771 771 000	CW	(AB/RL/ES-HOL)
M12	5778	25-1	2200	Sat	771 771 771 000	CW	(AB)
M12	6778	25-1	2220	Sat	771 771 771 000	CW	(AB)
M12	6786	26-1	0600	Sun	792 792 792 1 7582 112 7582 112 28047 88206 45778 ... 14087 08912 09404 000 000	CW	(AB/ES-HOL)
M12	7986	26-1	0620	Sun	792 792 792 1 7582 112 7582 112 28047 88206 45778 ... 14087 08912 09404 000 000	CW	(AB/ES-HOL)
M12	9286	26-1	0640	Sun	792 792 792 1 7582 112 7582 112 28047 88206 45778 ... 14087 08912 09404 000 000	CW	(AB/ES-HOL)
M12	16357	26-1	0800	Sun	343 343 343 1 465 123 465 123 90569 86073 23564 ... 34077 92816 84542 000 000	CW	(AB/ES-HOL)
M12	17457	26-1	0820	Sun	343 343 343 1 465 123 465 123 90569 86073 23564 ... 34077 92816 84542 000 000	CW	(AB/ES-HOL)
M12	18357	26-1	0840	Sun	343 343 343 1 465 123 465 123 90569 86073 23564 ... 34077 92816 84542 000 000	CW	(AB/ES-HOL)
M12	10547	27-1	1400	Mon	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/ES-HOL)
M12	9047	27-1	1420	Mon	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/ES-HOL)
M12	7547	27-1	1440	Mon	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/ES-HOL)
M12	6937	27-1	2210	Mon	975 975 975 000	CW	(AB/ES-HOL)
M12	5737	27-1	2230	Mon	975 975 975 000	CW	(AB/ES-HOL)
M12	6786	28-1	0050	Tue	874 874 874 000	CW	(AB)
M12	9317	28-1	0530	Tue	135 135 135 1 8588 108 8588 108 48259 81863 11394 ... 71547 72139 43955 000 000	CW	(AB/ES-HOL)

M12	10484	28-1	0550	Tue	135 135 135 1 8588 108 8588 108 48259 81863 11394 ... 71547 72139 43955 000 000	CW	(AB/ES-HOL)
M12	6786	28-1	0600	Tue	792 792 792 1 7441 82 7441 82 45769 58737 93581 ... 15739 51818 65864 000 000	CW	(AB/ES-HOL)
M12	11552	28-1	0610	Tue	135 135 135 1 8588 108 8588 108 48259 81863 11394 ... 71547 72139 43955 000 000	CW	(AB/ES-HOL)
M12	7986	28-1	0620	Tue	792 792 792 1 7441 82 7441 82 45769 58737 93581 ... 15739 51818 65864 000 000	CW	(AB/ES-HOL)
M12	9286	28-1	0640	Tue	792 792 792 1 7441 82 7441 82 45769 58737 93581 ... 15739 51818 65864 000 000	CW	(AB/ES-HOL)
M12	16357	29-1	0800	Wed	343 343 343 000	CW	(AB/ES-HOL)
M12	17457	29-1	0820	Wed	343 343 343 000	CW	(AB/ES-HOL)
M12	13932	29-1	1310	Wed	951 951 951 1 423 56 423 56 62259 58559 19870 ... 27809 55664 38498 000 000	CW	(AB)
M12	13532	29-1	1330	Wed	951 951 951 1 423 56 423 56 62259 58559 19870 ... 27809 55664 38498 000 000	CW	(AB)
M12	12132	29-1	1350	Wed	951 951 951 1 423 56 423 56 62259 58559 19870 ... 27809 55664 38498 000 000	CW	(AB)
M12	10547	29-1	1400	Wed	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/MPJ/ES-HOL)
M12	9047	29-1	1420	Wed	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/MPJ/ES-HOL)
M12	7547	29-1	1440	Wed	505 505 505 1 284 39 284 39 74699 61769 33272 ... 65903 27219 91774 000 000	CW	(AB/MPJ)
M12	12162	29-1	1710	Wed	Stops and restarts at 1713 UTC. 546 546 546 1 9039 110 9039 110 20168 44611 60632 ... 23449 05604 73260 000 000	CW	(AB-RUS)
M12	11566	29-1	1730	Wed	546 546 546 1 9039 110 9039 110 20168 44611 60632 ... 23449 05604 73260 000 000	CW	(AB-RUS)
M12	10711	29-1	1750	Wed	546 546 546 1 9039 110 9039 110 20168 44611 60632 ... 23449 05604 73260 000 000	CW	(AB-RUS)
M12	6864	29-1	2050	Wed	875 875 875 000	CW	(AB/RLES-HOL)
M12	5764	29-1	2110	Wed	875 875 875 000	CW	(AB/RL)
M12	17472	30-1	0100	Thu	429 429 429 1 334 88 334 88 03034 81004 22461 34139 16961 ... 41030 76139 62766 88839 69782 000 000	CW	(RL/HFD-J)
M12	11439	30-1	0110	Thu	432 432 432 1 8342 94 8342 94 88228 19340 50919 ... 90854 83352 36856 000 000	CW	(AB/HFD-J)
M12	16272	30-1	0120	Thu	429 429 429 1 334 88 334 88 03034 81004 22461 34139 16961 ... 41030 76139 62766 88839 69782 000 000	CW	(RL/HFD-J)
M12	10339	30-1	0130	Thu	432 432 432 1 8342 94 8342 94 88228 19340 50919 ... 90854 83352 36856 000 000	CW	(AB/RL-USA)
M12	9239	30-1	0150	Thu	432 432 432 1 8342 94 8342 94 88228 19340 50919 ... 90854 83352 36856 000 000	CW	(AB)
M12	6937	30-1	2210	Thu	975 000	CW	(ES-HOL)
M12	5737	30-1	2230	Thu	975 000	CW	(ES-HOL)
M12	5886	31-1	0030	Fri	874 874 874 000	CW	(AB)
M12	6786	31-1	0050	Fri	874 874 874 000	CW	(AB)
M12	13932	31-1	1310	Fri	951 951 951 1 423 56 423 56 62259 58559 19870 ... 27809 55664 38498 000 000	CW	(AB/MPJ/ES-HOL)
M12	13532	31-1	1330	Fri	951 951 951 1 423 56 423 56 62259 58559 19870 ... 27809 55664 38498 000 000	CW	(AB/MPJ/RL/ES-HOL)
M12	12132	31-1	1350	Fri	951 951 951 1 423 56 423 56 62259 58559 19870 ... 27809 55664 38498 000 000	CW	(AB/MPJ/ES-HFD)
M12	6864	31-1	2050	Fri	875 875 875 000	CW	(AB/RL)
M12	5764	31-1	2110	Fri	875 875 875 000	CW	(AB/RL)
M12	5778	31-1	2200	Fri	771 771 771 000	CW	(AB)
M12	5778	31-1	2200	Fri	771 771 771 1 147 67 147 67 18369 72918 11636 ... 70177 45216 47152 000 000	CW	(AB/RL)
M12	6778	31-1	2220	Fri	771 771 771 1 147 67 147 67 18369 72918 11636 ... 70177 45216 47152 000 000	CW	(AB/RL)
M12	6778	31-1	2220	Fri	771 771 771 000	CW	(AB)
M12	8178	31-1	2240	Fri	771 771 771 1 147 67 147 67 18369 72918 11636 ... 70177 45216 47152 000 000	CW	(AB/RL)
M14	4813	3-1	1900	Fri	735 735 735 00000	MCW	(AB)
M14	4480	3-1	2000	Fri	735 735 735 00000	MCW	(AB)
M14	4730	4-1	0800	Sat	523 421 421 33 33 = = 75683 65412 89032 ... 69743 78965 87654 = = 421 421 33 33 00000	MCW	(AB)
M14	4650	4-1	0900	Sat	523 421 421 33 33 = = 75683 65412 89032 ... 69743 78965 87654 = = 421 421 33 33 00000	MCW	(AB)
M14	5388	8-1	1600	Wed	654 654 654 00000	CW	(HFD)
M14	17458	10-1	0930	Fri	617 617 617 00000	CW	(AB)

M14	4730	11-1	0800	Sat	523 623 623 33 33 = = 09465 89034 83412 ... 62312 45876 09786 = = 623 623 33 33 00000 Only 28 groups were sent	MCW	(AB-RUS)
M14	4650	11-1	0900	Sat	523 623 623 33 33 = = 09465 89034 83412 ... 62312 45876 09786 = = 623 623 33 33 00000 Only 28 groups were sent	MCW	(AB-RUS)
M14	4760	13-1	0100	Mon	617 ... message	MCW	(AB)
M14	4636	14-1	1823	Tue	i.p. 7729 30991 65490 30987 27189 30448 8812 60031 28190 78839 20671 44921 89024 33619 79882 49127 30116 79941 27182 = = 136 136 32 32 00000	MCW	(AB)
M14	4761	15-1	1924	Wed	Late start. 748 136 136 32 32 = = 19288 13779 26789 33178 ... 30116 79941 27182 = = 136 136 32 32 00000	MCW	(AB/MPJ)
M14	4730	18-1	0800	Sat	523 137 137 32 32 = = 13723 16789 67832 ... 09987 76432 77944 = = 137 137 32 32 00000	MCW	(AB-RUS)
M14	4650	18-1	0900	Sat	523 137 137 32 32 = = 13723 16789 67832 ... 09987 76432 77944 = = 137 137 32 32 00000	MCW	(AB-RUS)
M14	9463	21-1	1344	Tue	i.p. 801 465 23 = 75135 21751 ..... 14733 04380 = 647 29 00000	CW	(ES-HOL)
M14	4730	25-1	0758	Sat	Test: 4076 59836 63053 37754 36002	MCW	(AB)
M14	4730	25-1	0800	Sat	523 523 32 32 = = 58192 80182 48177 ... 88910 49022 31882 = = 32 32 523 523 00000	MCW	(AB)
M14	4730	25-1	0813	Sat	Test: 397 05987 601	MCW	(AB)
M14	4650	25-1	0900	Sat	523 523 32 32 = = 981925192 80182 48177 ... 88910 49022 31882 = = 32 32 523 523 00000	MCW	(AB-RUS)
M14	17458	25-1	0930	Sat	617 617 617 00000	CW	(AB)
M14	4636	28-1	1820	Tue	186 617 617 32 32 = = 45384 36891 92543 ... 95435 66613 94257 = = 32 32 617 617 00000	CW	(AB)
M14	4761	29-1	1920	Wed	748 617 617 32 32 = = 45384 36891 92543 ... 95435 66613 94257 = = 32 32 617 617 00000	MCW	(AB/MPJ)
M14	4761	29-1	1920	Wed	748-617/32=45384	CW	(HFD)
M21	4221	5-1	0611	Sun	=990913??0???? =990914??0???? =990915??0???? //5860.5 kHz	CW	(F5JBR)
M21	4320.5	5-1	0624	Sun	=990924??8???? =990925??8???? =990926??8???? //4865.5 kHz	CW	(F5JBR)
M21	4865.5	5-1	0628	Sun	=990928??8???? =990929??8???? =990930??8???? //4320.5 kHz	CW	(F5JBR)
M21	4171	5-1	0733	Sun	=991033??8???? =991034??8???? =991035??8???? //4320.5 kHz	CW	(F5JBR)
M21	6791	5-1	0740	Sun	=991039??8???? =991040??8???? =991041??8????	CW	(F5JBR)
M21	4221	25-1	1422	Sat	=991725??0???? =991726??0???? =991727??0????	CW	(F5JBR)
M21	4865.5	25-1	1430	Sat	=991730??8???? =991731??8???? =991732??8????	CW	(F5JBR)
M21	6334	26-1	1013	Sun	=991313??8???? =991314??8???? =991315??8????	CW	(F5JBR)
M21	3322	26-1	1822	Sun	=992125??0???? =992126??0???? =992127??0????	CW	(F5JBR)
M21	4274	27-1	0718	Mon	=13006942628314 =991017??8???? =1300794446209114 =1300942623716 =430030002??00 =991018??8???? =13001942623816 =430013001??00 =13002942624216	CW	(F5JBR)
M21	5175.5	27-1	0803	Mon	=8500329796804 =51785007170 511800 85003209792105 8500324092806B 850032092707	CW	(F5JBR)
M21	5461.5	27-1	0806	Mon	=8500124092806 8500324092607 8500 324092608	CW	(F5JBR)
M21	5219	27-1	0831	Mon	=991131??0???? =991132??0???? =991133??0????	CW	(F5JBR)
M21	4320.5	27-1	0848	Mon	=991148??8???? =991149??8???? =991150??8???? //4274 kHz	CW	(F5JBR)
M21	6286	28-1	1824	Tue	=990720??8???? =990721??8???? =990722??8????	CW	(F5JBR)
M22	9377	1-1	0824	Wed	VVV DE 4XZ 4XZ = =	CW	(ES-HOL)
M22	9377	3-1	0851	Fri	VVV DE 4XZ 4XZ = =	CW	(ES-HOL)
M32	5373	6-1	1213	Mon	XXX XXX ONG4 ONG4 08057 ZhRECOSH TAT 2704 0713 K	CW	(Gwr)
M32	8508	9-1	1115	Thu	RDL: XXX XXX WEGI WEGI 37558 20942 SYROZAEM 4118 4557 //14411 kHz	CW	(JU)
M32	7678	9-1	1119	Thu	XXX XXX MFT5 MFT5 48494 INDOBXEF 9085 3728	CW	(JU)
M32	8508	9-1	1229	Thu	RDL: XXX XXX WEGI WEGI 81661 55274 TKAÍOSPÍ 0682 0798 07678 //14411 kHz	CW	(JU)
M32	5373	10-1	1015	Fri	XXX XXX ONG4 ONG4 31820 MALEWAN'E 0266 6775 K	CW	(Gwr)
M32	5373	10-1	1034	Fri	XXX XXX ONG4 ONG4 01857 NEOBRATIMYJ 6758 4601 K	CW	(Gwr)
M32	5373	15-1	1001	Wed	XXX XXX ONG4 ONG4 00983 KWITOKAIK 8684 7182 K	CW	(Gwr)
M32	5431	15-1	1230	Wed	XXX XXX DAHJ DAHJ 46960 ZAMAL'OWANYJ 6012 K	CW	(Gwr)
M32	12152	16-1	0815	Thu	607V DE SJHO K	CW	(AB)

<b>M32</b>	4983	20-1	1130	Mon	XXX XXX WEGI WEGI 72868 SEJFOSGON 2736 1870 K	CW	(Gwr)
<b>M32</b>	3273	26-1	0845	Sun	XXX H8AC 8QLO 7UID 06149 29741 32973 POHERNYJ 8981 7296 K	CW	(F5JBR)
<b>M32</b>	6881	27-1	0753	Mon	XXX VPX7 12469 DOSXE 7705 7334 K	CW	(F5JBR)
<b>M32</b>	5759	27-1	0757	Mon	XXX VPX7 12469 DOSXE 7705 7334 K	CW	(F5JBR)
<b>M32</b>	5793	27-1	0800	Mon	XXX WEGI 83689 RUSOWOLOSJY 9377 2369 K	CW	(F5JBR)
<b>M32</b>	4532.5	28-1	1830	Tue	XXX URM65 81038 81038 21038 NAGAN 124144 132 NAGAN 124 144 132 K	CW	(F5JBR)
<b>M32</b>	5456	30-1	1000	Thu	XXX XXX C1OB C1OB 43495 SPEKULYaCIYa 3298 7572 UGRYZENIE 8727 5371 PROMEZhNOST' 3316 7046 RYa-DOSBYT 8463 4298 K	CW	(Gwr)
<b>M32</b>	5386	30-1	1013	Thu	XXX XX WLHN WLHN 55328 20032 13071 BUMAZhEChKA 5285 0667 K	CW	(Gwr)
<b>M32</b>	5363	30-1	1107	Thu	XXX XXX ONG4 ONG4 89281 KOKOFAWN 0128 2992 K	CW	(Gwr)
<b>M32</b>	8114	31-1	1032	Fri	XXX XXX 69BV 69BV 02575 DVINOZUEK 7559 1294	CW	(SP1)
<b>M32</b>	8114	31-1	1036	Fri	XXX XXX CSWY CSWY 8761 PRIPARNYJ 6530 8132	CW	(SP1)
<b>M32a</b>	13971	8-1	0906	Wed	Russian navy i.p. FSAS ZZV K VVVVVV ZZV K ZSL ? K NR 223 ZSL? K	CW	(AB)
<b>M32a</b>	7422	23-1	0950	Thu	RIT: Russian Navy HQ Severomorsk: xxx xxx vd9b vd9b 26416 stenograf 6956 5926 k	CW	(WP3)
<b>M32a</b>	7422	23-1	1000	Thu	RIT: Russian Navy HQ Severomorsk: rlo de rit qtc 409 34 23 1257 409 = radioprognoz 23010 63003 40000 .....	CW	(WP3)
<b>M32a</b>	7422	23-1	1018	Thu	RIT: Russian Navy HQ Severomorsk: xxx xxx vd9b vd9b 15373 sarajnyj 1251 1063 k	CW	(WP3)
<b>M32a</b>	7422	23-1	1033	Thu	RIT: Russian Navy HQ Severomorsk: xxx xxx vd9b vd9b 28819 natelxnyj 8985 3418 k	CW	(WP3)
<b>M32a</b>	7422	23-1	1036	Thu	RIT: Russian Navy HQ Severomorsk: xxx xxx rlo rlo elasti+nyj 01 1310 320 090 1328 k	CW	(WP3)
<b>M32a</b>	7422	23-1	1040	Thu	RIT: Russian Navy HQ Severomorsk: xxx xxx vd9b vd9b 28074 katet 8395 1598 k	CW	(WP3)
<b>M32a</b>	7422	23-1	1309	Thu	RIT: Russian Navy HQ Severomorsk: xxx xxx vd9b vd9b 46055 ojkume 8344 0316 k	CW	(WP3)
<b>M32a</b>	7422	23-1	1320	Thu	RIT: Russian Navy HQ Severomorsk: xxx xxx vd9b vd9b 09959 porik 0616 8331 k	CW	(WP3)
<b>M32b</b>	8816	3-1	0712	Fri	Russian Naval Air rjc38 rjf94 de 75025 qto 0700 qrd XLWF XLMD qbd 0600 qre 0920 k	CW	(WP3)
<b>M32c</b>	2737	6-1	1840	Mon	REA4 weather bulletin: REA4 REA4 = 06170 99900 05160 20069 85998 83103 11006 21027 70322 88010 = REA4 K	CW	(AB)
<b>M42</b>	12153	9-1	1157	Thu	Russian diplo/intel i.p.	MFSK	(AB)
<b>M42</b>	10342.5	9-1	1649	Thu	Russian diplo/intel i.p.	MFSK	(AB)
<b>M42</b>	11496.5	10-1	1004	Fri	Russian diplo/intel i.p.	MFSK	(AB)
<b>M42</b>	11154	14-1	1327	Tue	MFA Moscow	Serdolik variant	(AB)
<b>M42b</b>	4461	5-1	0550	Sun	PZAK wkg PLXW. Opchat in CW, messages in FSK. QSX on 4026 kHz	CW+FSK 50/500	(F5JBR)
<b>M42b</b>	4856	5-1	0629	Sun	MAST wkg IABY	CW	(F5JBR)
<b>M42b</b>	4524	5-1	0632	Sun	MAST wkg IABY. Opchat in CW, messages in FSK	CW+FSK 50/500	(F5JBR)
<b>M42b</b>	8191	5-1	0748	Sun	DLXT wkg A2JW. Opchat in CW, messages in FSK	CW+FSK 50/500	(F5JBR)
<b>M42b</b>	4451	8-1	0830	Wed	ZGFU wkg BOPK. Opchat in CW, messages in FSK	CW+FSK 50/500	(F5JBR)
<b>M42b</b>	3210	27-1	1809	Mon	IBUP wkg CAGR: QTC 1 ZZC ZVP. QSX on 2750 kHz	CW+FSK 50/500	(F5JBR)
<b>M42b</b>	3210	28-1	1848	Tue	IBUP wkg CAGR: QSA NO QSY 73373 K (73373 is 2750 kHz) QSX o 2750 kHz	CW+FSK 50/500	(F5JBR)
<b>M51a</b>	6825	11-1	0916	Sat	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ followed by 2 messages, then CQ DE FAV22 VA	CW	(AB)
<b>M51a</b>	3881	18-1	0920	Sat	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ followed by 2 messages, then CQ DE FAV22 VA //6825 kHz	CW	(AB)
<b>M51a</b>	6825	18-1	0920	Sat	VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ followed by 2 messages, then CQ DE FAV22 VA //3881 kHz	CW	(AB)
<b>M51b</b>	3881	11-1	0850	Sat	Non-stop 5-character groups composed of M51a messages.	CW	(AB)
<b>M51b</b>	3881	18-1	0909	Sat	Non-stop 5-character groups composed of M51a messages //6825 kHz	CW	(AB)
<b>M51b</b>	6825	18-1	0909	Sat	Non-stop 5-character groups composed of M51a messages //3881 kHz	CW	(AB)
<b>M51b</b>	3881	18-1	0955	Sat	Non-stop 5-character groups composed of M51a messages //6825 kHz	CW	(AB)
<b>M51b</b>	6825	18-1	0955	Sat	Non-stop 5-character groups composed of M51a messages //3881 kHz	CW	(AB)
<b>M89</b>	8157	9-1	0845	Thu	v m8jf m8jf m8jf de ris9 ris9	CW	(RL)
<b>M89</b>	3238	10-1	1853	Fri	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)

M89	4354	10-1	1904	Fri	i.p. R HR NIL SK	CW	(JPL)
M89	3842	10-1	1904	Fri	V 8FDH (x3) DE 5J9K (x2) Note: Sending 8FNH VICE 8FDH	CW	(JPL)
M89	7653	10-1	2150	Fri	V 7KMO (x3) DE RNL6 (x2)	CW	(JPL)
M89	5858	10-1	2346	Fri	V 8FDH (x3) DE 5J9K (x2) Note: Sending 8FNH VICE 8FDH	CW	(JPL)
M89	5177	11-1	0225	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	8157	11-1	0237	Sat	i.p. = 275/0273/3/130772/8 AR = 275/8159/7/7334/8 AR V M8JF (x3) DE RIS9 (x2)	CW	(JPL)
M89	7653	11-1	0246	Sat	V 7KMO (x3) DE RNL6 (x2) //10563	CW	(JPL)
M89	10563	11-1	0254	Sat	V 3DAU (x3) DE GU5H (x2) Note: Sending 3D1U DE G25H vice 3DAU DE GU5H. // sending different roundslip	CW	(JPL)
M89	10563	11-1	0742	Sat	V 3DAU (x3) DE GU5H (x2) Note: Sending 3D1U DE G25H vice 3DAU DE GU5H. //7653 sending different roundslip V 7KMO (x3) DE RNL6 (x2)	CW	(JPL)
M89	7653	11-1	0742	Sat	V 7KMO (x3) DE RNL6 (x2) //10563	CW	(JPL)
M89	8157	11-1	0744	Sat	V M8JF DE RIS9 = 438/5543/5393/63/..139/468 AR = 438/5543/53/3/6./33/3149. /A AR V M8JF DE RIS9	CW	(JPL)
M89	6874	11-1	0744	Sat	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	5177	11-1	0753	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5858	13-1	0252	Mon	V 8FDH (x3) DE 5J9K (x2) Note: Sending 8FNH VICE 8FDH	CW	(JPL)
M89	6874	13-1	0254	Mon	V M8JF (x3) DE RIS9 (x2) //8157	CW	(JPL)
M89	8157	13-1	0254	Mon	V M8JF (x3) DE RIS9 (x2) //6874	CW	(JPL)
M89	6123	13-1	0257	Mon	i.p. N736 AA66 6UTU N5A3 AN53 66TD ... AR K K R OK SK	CW	(JPL)
M89	8157	13-1	0851	Mon	v m8jf m8jf m8jf de ris9 ris9	CW	(RL)
M89	4131	13-1	1243	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4898	13-1	1256	Mon	V QWS1 (x3) DE 87DS (x2)	CW	(JPL)
M89	3842	13-1	1311	Mon	V 8FDH (x3) DE 5J9K (x2) Note: Sending 8FNH VICE 8FDH //4898 sending different roundslip	CW	(JPL)
M89	4870	13-1	1312	Mon	V M8JF (x3) DE RIS9 (x2) //3238	CW	(JPL)
M89	3238	13-1	1312	Mon	V M8JF (x3) DE RIS9 (x2) //4870	CW	(JPL)
M89	6936	25-1	1410	Sat	YHXD de SAQC V	CW	(F5JBR-S)
M89	3842	25-1	1902	Sat	8FDH de 5J9K V	CW	(F5JBR)
M89	10722	26-1	1027	Sun	YHXD de SAQC V	CW	(F5JBR-S)
M89	7653	26-1	1332	Sun	8RVF de CV4K V	CW	(F5JBR-S)
M89	4870	26-1	1345	Sun	M8JF de RIS9 V //3238 kHz	CW	(F5JBR-S)
M89	2984	28-1	1512	Tue	QWS1 de 87DS V	CW	(F5JBR-S)
M89	3968	28-1	1526	Tue	YHXD de SAQC V	CW	(F5JBR-S)
M89	6936	28-1	1819	Tue	YHXD de SAQC V //3968 kHz	CW	(F5JBR)
M89	8157	29-1	0900	Wed	v m8jf m8jf m8jf de ris9 ris9	CW	(RL)
M89	2984	29-1	1700	Wed	QWS1 de 87DS V	CW	(F5JBR-CHN)
M89	4870	29-1	1754	Wed	M8JF de RIS9 V	CW	(F5JBR-S)
M89	4131	29-1	1757	Wed	JKDJ de SLBC V	CW	(F5JBR-S)
M89	3842	29-1	1800	Wed	8FDH de 5J9K V	CW	(F5JBR-S)
M95	3968	10-1	1909	Fri	V YHXD (x3) DE SAQC (x2) //6936	CW	(JPL)
M95	6936	10-1	2139	Fri	V YHXD (x3) DE SAQC (x2) //3968	CW	(JPL)
M95	5479	11-1	0230	Sat	V YHXD (x3) DE SAQC (x2)	CW	(JPL)
M95	5479	11-1	0259	Sat	V YHXD DE SAQC VV HR MSG GA NR 063/CCK CK 199 05 4 0111 1100 RMKS 2416 TO 2234 2174 2224 ... //10722	CW	(JPL)
M95	10722	11-1	0259	Sat	V YHXD DE SAQC VV HR MSG GA NR 063/CCK CK 199 05 4 0111 1100 RMKS 2416 TO 2234 2174 2224 ... //5479	CW	(JPL)
M95	5479	11-1	0739	Sat	V YHXD (x3) DE SAQC (x2) //10722	CW	(JPL)
M95	10722	11-1	0739	Sat	V YHXD (x3) DE SAQC (x2) //5479	CW	(JPL)
M95	5479	13-1	0246	Mon	V YHXD (x3) DE SAQC (x2) //10722	CW	(JPL)
M95	10722	13-1	0246	Mon	V YHXD (x3) DE SAQC (x2) //5479	CW	(JPL)



<b>M95</b>	5479	13-1	1239	Mon	V YHXD (x3) DE SAQC (x2) //10722	CW	(JPL)
<b>M95</b>	10722	13-1	1239	Mon	V YHXD (x3) DE SAQC (x2) //5479	CW	(JPL)
<b>M95</b>	4125	13-1	1259	Mon	V UISD (x3) DE CBFQ (x2) HR MSG GA HR MSG GA NR 036/CCK 31 46 0113 2100 RMKS 2374 TO 8404 8470 8405 8448 =	CW	(JPL)
<b>M95</b>	3942	25-1	1310	Sat	Y3BK wkg Z5HI, 4HEA, SU7L, Q4DF, R8PQ, 4HEA, 5U8L, V1ND, 9XLF, WJY4, 1RBZ, 0Z2D. MSG NR 130 CCK CK99 66 01 25 2100 RMKS CQ = TXTU 3UAY QSL + QTR	CW	(F5JBR-S)
<b>M95</b>	4125	29-1	1436	Wed	Y3BK wkg Z5HI Q4DF 4HEA SU7L Q4DF V1ND 9XLF WJY4 1RBZ 0Z2D (QSX on 3789 kHz)	CW	(F5JBR-S)
<b>M95</b>	3789	29-1	1444	Wed	Outstations II1B CT4D WB5S D6UE CTV6 3L1B DCQ6 L4NR 3..Q YQ13 4QTW SNM1 wkg 8PQD (is Y3BK). QSX on 4125 kHz	CW	(F5JBR-S)
<b>MX</b>	7508.7	2-1	1046	Thu	Beacon D, Sevastopol	CW	(AB)
<b>MX</b>	7509.1	2-1	1046	Thu	Beacon A, Astrakhan	CW	(AB)
<b>MX</b>	7508.8	2-1	1046	Thu	Beacon P, Kaliningrad	CW	(AB)
<b>MX</b>	7509	2-1	1046	Thu	Beacon C, Moscow	CW	(AB)
<b>MX</b>	5342	5-1	0556	Sun	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	6-1	1244	Mon	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	7-1	0433	Tue	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	9-1	0659	Thu	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	10-1	0507	Fri	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	11-1	0518	Sat	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	12-1	0427	Sun	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	13-1	1157	Mon	Beacon V	CW	(ES-POL)
<b>MX</b>	5342	14-1	0333	Tue	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	15-1	0828	Wed	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	16-1	0303	Thu	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	17-1	0200	Fri	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	18-1	0335	Sat	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	19-1	0509	Sun	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	20-1	1251	Mon	Beacon V	CW	(ES-POL)
<b>MX</b>	5342	21-1	0409	Tue	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	23-1	0744	Thu	Beacon V	CW	(ES-KAZ)
<b>MX</b>	5342	24-1	0341	Fri	Beacon V	CW	(ES-RUS)
<b>MX</b>	5342	25-1	1324	Sat	Beacon V	CW	(ES-POL)
<b>MX</b>	5342	27-1	0409	Mon	Beacon V	CW	(ES-RUS)
<b>MX</b>	3168.5	27-1	0600	Mon	Beacon L, St Petersburg	CW	(F5JBR)
<b>MX</b>	5342	28-1	0409	Tue	Beacon V	CW	(ES-RUS)
<b>MX</b>	4338	28-1	1442	Tue	Beacon V At times malfunctioning and repeating with an extra dot after the dash.	CW	(ES-POL)
<b>MX</b>	7611	29-1	0542	Wed	Beacon V	CW	(ES-RUS)
<b>MX</b>	7611	30-1	0408	Thu	Beacon V	CW	(ES-RUS)
<b>MX</b>	5342	30-1	0409	Thu	Beacon V	CW	(ES-RUS)
<b>MX</b>	5342	31-1	0831	Fri	Beacon V	CW	(ES-RUS)
<b>MX</b>	7611	31-1	0833	Fri	Beacon V	CW	(ES-RUS)
<b>P03a</b>	14975	1-1	1600	Wed	Polish intel.	BPSK 62.5Bd	(AB)
<b>P03a</b>	14975	1-1	1605	Wed	Polish intel.	BPSK 62.5Bd	(AB)
<b>P03a</b>	5409	3-1	0505	Fri	Polish intel.	BPSK 62.5Bd	(AB)
<b>P03a</b>	5409	3-1	0510	Fri	Polish intel.	BPSK 62.5Bd	(AB)
<b>P03a</b>	8680	3-1	1500	Fri	Polish intel.	BPSK 62.5Bd	(AB)

P03a	8680	3-1	1505	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	3-1	1635	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	3-1	1640	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5371	4-1	0500	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5371	4-1	0505	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	4-1	1320	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	4-1	1325	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4242	4-1	1500	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4242	4-1	1505	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	14975	4-1	1600	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	14975	4-1	1605	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	5-1	1320	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	5-1	1325	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	5-1	1410	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	5-1	1415	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	5-1	1500	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	5-1	1505	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	6-1	1410	Mon	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	6-1	1415	Mon	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	6-1	1635	Mon	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	6-1	1640	Mon	Polish intel.	BPSK 62.5Bd	(AB)
P03a	14975	8-1	1600	Wed	Polish intel.	BPSK 62.5Bd	(AB)
P03a	14975	8-1	1605	Wed	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5409	10-1	0505	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5409	10-1	0510	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	10-1	1500	Fri	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	8680	10-1	1505	Fri	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	4356	10-1	1635	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	10-1	1640	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	11-1	1320	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	11-1	1325	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	14975	11-1	1600	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	14975	11-1	1605	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	12-1	1320	Sun	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	4356	12-1	1325	Sun	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	13470	12-1	1410	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	12-1	1415	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	12-1	1500	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	12-1	1505	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	13-1	1410	Mon	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	13-1	1415	Mon	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	13-1	1635	Mon	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	4356	13-1	1640	Mon	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	4356	15-1	1500	Wed	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	15-1	1505	Wed	Polish intel.	BPSK 62.5Bd	(AB)
P03a	14975	15-1	1600	Wed	Polish intel.	BPSK 62.5Bd	(AB)

P03a	14975	15-1	1605	Wed	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	17-1	1500	Fri	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	8680	17-1	1505	Fri	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	4356	17-1	1635	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	17-1	1640	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5371	18-1	0500	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5371	18-1	0505	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	18-1	1320	Sat	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	4356	18-1	1325	Sat	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	14975	18-1	1600	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	14975	18-1	1605	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5371	19-1	0500	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5371	19-1	0505	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	19-1	1320	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	19-1	1325	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	19-1	1410	Sun	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	13470	19-1	1415	Sun	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	8680	19-1	1500	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	19-1	1505	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	20-1	1410	Mon	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	20-1	1415	Mon	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	20-1	1635	Mon	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	4356	20-1	1640	Mon	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	4356	22-1	1500	Wed	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	22-1	1505	Wed	Polish intel.	BPSK 62.5Bd	(AB)
P03a	14975	22-1	1600	Wed	Polish intel.	BPSK 62.5Bd	(AB)
P03a	14975	22-1	1605	Wed	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5409	24-1	0505	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5409	24-1	0510	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	24-1	1500	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	24-1	1505	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	24-1	1635	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	24-1	1640	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	25-1	1320	Sat	Polish intel.	BPSK 62.5Bd	(MPJ)
P03a	4356	25-1	1320	Sat	Polish intel.	BPSK 62.5Bd	(MPJ)
P03a	4356	25-1	1500	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	25-1	1505	Sat	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5371	26-1	0500	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5371	26-1	0505	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5409	26-1	0505	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5409	26-1	0510	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	26-1	1410	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	26-1	1415	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	26-1	1500	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	26-1	1505	Sun	Polish intel.	BPSK 62.5Bd	(AB)
P03a	13470	27-1	1410	Mon	Polish intel.	BPSK 62.5Bd	(AB)

P03a	13470	27-1	1415	Mon	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	27-1	1635	Mon	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	27-1	1640	Mon	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	29-1	1500	Wed	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	29-1	1505	Wed	Polish intel.	BPSK 62.5Bd	(AB)
P03a	14975	29-1	1600	Wed	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	14975	29-1	1605	Wed	Polish intel.	BPSK 62.5Bd	(AB/MPJ)
P03a	5409	31-1	0505	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	5409	31-1	0510	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	31-1	1500	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	8680	31-1	1505	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	31-1	1635	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03a	4356	31-1	1640	Fri	Polish intel.	BPSK 62.5Bd	(AB)
P03b	5779	3-1	1200	Fri	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	3-1	1205	Fri	Polish intel.	QPSK 62.5Bd	(AB)
P03b	4356	4-1	0610	Sat	Polish intel.	QPSK 62.5Bd	(AB)
P03b	4356	4-1	0615	Sat	Polish intel.	QPSK 62.5Bd	(AB)
P03b	9079	5-1	1120	Sun	Polish intel.	QPSK 62.5Bd	(AB)
P03b	9079	5-1	1125	Sun	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	10-1	1200	Fri	Polish intel.	QPSK 62.5Bd	(AB/MPJ)
P03b	5779	10-1	1205	Fri	Polish intel.	QPSK 62.5Bd	(AB/MPJ)
P03b	4356	12-1	0610	Sun	Polish intel.	QPSK 62.5Bd	(AB)
P03b	4356	12-1	0615	Sun	Polish intel.	QPSK 62.5Bd	(AB)
P03b	9079	15-1	1120	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	9079	15-1	1125	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	15-1	1200	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	15-1	1205	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	17-1	1200	Fri	Polish intel.	QPSK 62.5Bd	(AB/MPJ)
P03b	5779	17-1	1205	Fri	Polish intel.	QPSK 62.5Bd	(AB/MPJ)
P03b	4356	18-1	0610	Sat	Polish intel.	QPSK 62.5Bd	(AB)
P03b	4356	18-1	0615	Sat	Polish intel.	QPSK 62.5Bd	(AB)
P03b	4356	19-1	0610	Sun	Polish intel.	QPSK 62.5Bd	(AB)
P03b	4356	19-1	0615	Sun	Polish intel.	QPSK 62.5Bd	(AB)
P03b	9079	19-1	1120	Sun	Polish intel.	QPSK 62.5Bd	(AB)
P03b	9079	19-1	1125	Sun	Polish intel.	QPSK 62.5Bd	(AB)
P03b	9079	22-1	1120	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	9079	22-1	1125	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	22-1	1200	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	22-1	1205	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	24-1	1200	Fri	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	24-1	1205	Fri	Polish intel.	QPSK 62.5Bd	(AB)
P03b	4356	25-1	0610	Sat	Polish intel.	QPSK 62.5Bd	(AB)
P03b	4356	25-1	0615	Sat	Polish intel.	QPSK 62.5Bd	(AB)
P03b	4356	26-1	0610	Sun	Polish intel.	QPSK 62.5Bd	(AB)
P03b	4356	26-1	0615	Sun	Polish intel.	QPSK 62.5Bd	(AB)
P03b	9079	26-1	1120	Sun	Polish intel.	QPSK 62.5Bd	(AB)

P03b	9079	26-1	1125	Sun	Polish intel.	QPSK 62.5Bd	(AB)
P03b	9079	29-1	1120	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	9079	29-1	1125	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	29-1	1200	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	29-1	1205	Wed	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	31-1	1200	Fri	Polish intel.	QPSK 62.5Bd	(AB)
P03b	5779	31-1	1205	Fri	Polish intel.	QPSK 62.5Bd	(AB)
P03e	10800	3-1	1440	Fri	Polish intel.	QPSK 100Bd	(AB)
P03e	10800	3-1	1445	Fri	Polish intel.	QPSK 100Bd	(AB)
P03e	10800	5-1	1440	Sun	Polish intel.	QPSK 100Bd	(AB)
P03e	10800	5-1	1445	Sun	Polish intel.	QPSK 100Bd	(AB)
P03e	5082	5-1	1725	Sun	Polish intel.	QPSK 100Bd	(AB)
P03e	5082	5-1	1730	Sun	Polish intel.	QPSK 100Bd	(AB)
P03e	5082	7-1	1725	Tue	Polish intel.	QPSK 100Bd	(AB)
P03e	5082	7-1	1730	Tue	Polish intel.	QPSK 100Bd	(AB)
P03e	10800	10-1	1440	Fri	Polish intel.	QPSK 100Bd	(AB)
P03e	10800	10-1	1445	Fri	Polish intel.	QPSK 100Bd	(AB)
P03e	10800	12-1	1440	Sun	Polish intel.	QPSK 100Bd	(AB/MPJ)
P03e	10800	12-1	1445	Sun	Polish intel.	QPSK 100Bd	(AB/MPJ)
P03e	5082	12-1	1725	Sun	Polish intel.	QPSK 100Bd	(AB)
P03e	5082	12-1	1730	Sun	Polish intel.	QPSK 100Bd	(AB)
P03e	5082	14-1	1725	Tue	Polish intel.	QPSK 100Bd	(AB)
P03e	5082	14-1	1730	Tue	Polish intel.	QPSK 100Bd	(AB)
P03e	10800	17-1	1440	Fri	Polish intel.	QPSK 100Bd	(AB)
P03e	10800	17-1	1445	Fri	Polish intel.	QPSK 100Bd	(AB)
P03e	10800	19-1	1440	Sun	Polish intel.	QPSK 100Bd	(AB/MPJ)
P03e	10800	19-1	1445	Sun	Polish intel.	QPSK 100Bd	(AB/MPJ)
P03e	5082	19-1	1725	Sun	Polish intel.	QPSK 100Bd	(AB/MPJ)
P03e	5082	19-1	1730	Sun	Polish intel.	QPSK 100Bd	(AB/MPJ)
P03e	10800	24-1	1440	Fri	Polish intel.	QPSK 100Bd	(AB/MPJ)
P03e	10800	24-1	1445	Fri	Polish intel.	QPSK 100Bd	(AB/MPJ)
P03e	10800	26-1	1440	Sun	Polish intel.	QPSK 100Bd	(AB/MPJ)
P03e	10800	26-1	1445	Sun	Polish intel.	QPSK 100Bd	(AB/MPJ)
P03e	5082	26-1	1725	Sun	Polish intel.	QPSK 100Bd	(AB)
P03e	5082	26-1	1730	Sun	Polish intel.	QPSK 100Bd	(AB)
P03e	5082	28-1	1725	Tue	Polish intel.	QPSK 100Bd	(AB)
P03e	5082	28-1	1730	Tue	Polish intel.	QPSK 100Bd	(AB)
P03e	10800	31-1	1440	Fri	Polish intel.	QPSK 100Bd	(AB)
P03e	10800	31-1	1445	Fri	Polish intel.	QPSK 100Bd	(AB)
P03f	6280	7-1	1100	Tue	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	7-1	1105	Tue	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	8-1	1100	Wed	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	8-1	1105	Wed	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	14-1	1100	Tue	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	14-1	1105	Tue	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	15-1	1100	Wed	Polish Intel.	QPSK 200Bd	(AB)

P03f	6280	15-1	1105	Wed	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	21-1	1100	Tue	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	21-1	1105	Tue	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	22-1	1100	Wed	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	22-1	1105	Wed	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	28-1	1100	Tue	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	28-1	1105	Tue	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	29-1	1100	Wed	Polish Intel.	QPSK 200Bd	(AB)
P03f	6280	29-1	1105	Wed	Polish Intel.	QPSK 200Bd	(AB)
P03g	13046	24-1	1330	Fri	Polish intel.	BPSK 50Bd	(AB)
P03g	13046	24-1	1335	Fri	Polish intel.	BPSK 50Bd	(AB)
P03g	13046	29-1	1330	Wed	Polish intel.	BPSK 50Bd	(AB)
P03g	13046	29-1	1335	Wed	Polish intel.	BPSK 50Bd	(AB)
P03g	13046	31-1	1330	Fri	Polish Intel.	BPSK 50Bd	(AB/MPJ)
P03g	13046	31-1	1335	Fri	Polish Intel.	BPSK 50Bd	(AB/MPJ)
P03h	9079	6-1	0530	Mon	Polish Intel.	BPSK 100Bd	(AB)
P03h	9079	6-1	0535	Mon	Polish Intel.	BPSK 100Bd	(AB)
P03h	9079	8-1	0530	Wed	Polish Intel.	BPSK 100Bd	(AB-POL)
P03h	9079	8-1	0535	Wed	Polish Intel.	BPSK 100Bd	(AB-POL)
P03h	9079	15-1	0530	Wed	Polish Intel.	BPSK 100Bd	(AB-POL)
P03h	9079	15-1	0535	Wed	Polish Intel.	BPSK 100Bd	(AB-POL)
P03h	9079	20-1	0530	Mon	Polish Intel.	BPSK 100Bd	(AB-POL)
P03h	9079	20-1	0535	Mon	Polish Intel.	BPSK 100Bd	(AB-POL)
P03h	9079	22-1	0530	Wed	Polish Intel.	BPSK 100Bd	(AB-POL)
P03h	9079	22-1	0535	Wed	Polish Intel.	BPSK 100Bd	(AB-POL)
P03h	9079	27-1	0530	Mon	Polish Intel.	BPSK 100Bd	(AB-POL)
P03h	9079	27-1	0535	Mon	Polish Intel.	BPSK 100Bd	(AB-POL)
P03h	9079	29-1	0530	Wed	Polish Intel.	BPSK 100Bd	(AB-POL)
P03h	9079	29-1	0535	Wed	Polish Intel.	BPSK 100Bd	(AB-POL)
P03i	6480	14-1	1800	Tue	Polish intel.	BPSK 62.5Bd	(AB)
P03i	6480	14-1	1805	Tue	Polish intel.	BPSK 62.5Bd	(AB)
P03i	6480	23-1	1800	Thu	Polish intel.	BPSK 62.5Bd	(MPJ)
P03i	6480	23-1	1805	Thu	Polish intel.	BPSK 62.5Bd	(MPJ)
P03i	6480	30-1	1800	Thu	Polish intel.	BPSK 62.5Bd	(AB)
P03i	6480	30-1	1805	Thu	Polish intel.	BPSK 62.5Bd	(AB)
RMv	7060	1-1	0822	Wed	i.p. PPTOV FMVYaZh PYaPVT Razdel 47 328 1 1100 473 Razdel 071 Razdel 11919 02375 37228 ... 74519 68861 01026 Priyom	USB	(AB)
RMv	7060	1-1	0826	Wed	1 2 3 4 5 6 7 8 9 10 Retsept 04, ya Svistok 53. Primate radiogrammu. Priyom Svistok 53 746 26 1 1055 746 Razdel 071 Razdel 11919 27684 59134 ...	USB	(AB)
RMv	6922	6-1	1205	Mon	8S1Shch 89514 NYePRYeMYeNNYJ 3882 5998	USB	(Gwr)
RMv	5372	6-1	1227	Mon	N'ZhJ 83690 NAMORDNIK 7828 2826	USB	(Gwr)
RMv	3850	6-1	1411	Mon	Tros-28 Ya Baron-78 - Proverka svyazi, priyom	USB	(Gwr)
RMv	5045	21-1	1415	Tue	Caplya, Caplya, Ya Znamya, primate radiogrammu. Signal 1844 signal 1844. 16 chasov 15 minut konec svyazi	USB	(Gwr)
S05s	6845	7-1	1500	Tue	914 236 5 81155 15870 20136 51543 38142 236 5 00000	USB	(AB/MPJ)
S05s	9170	7-1	1510	Tue	914 236 5 81155 15870 20136 51543 38142 236 5 00000	USB	(AB/MPJ)
S05s	6845	14-1	1500	Tue	914 236 5 81155 15870 20136 51543 38142 236 5 00000	USB	(AB)

S05s	9170	14-1	1510	Tue	914 236 5 81155 15870 20136 51543 38142 236 5 00000	USB	(AB)
S05s	6845	21-1	1500	Tue	914 870 5 59036 20030 16199 83296 25251 870 5 00000	USB	(AB/MPJ)
S05s	9170	21-1	1510	Tue	914 870 5 59036 20030 16199 83296 25251 870 5 00000	USB	(AB/MPJ)
S05s	6845	28-1	1500	Tue	914 870 5 59036 20030 16199 83296 25251 870 5 00000	USB	(AB)
S05s	9170	28-1	1510	Tue	914 870 5 59036 20030 16199 83296 25251 870 5 00000	USB	(AB)
S06	5097	3-1	2100	Fri	452 452 452 00000	USB	(AB/HFD)
S06	16243	16-1	0830	Thu	842 760 35 94528 20628 28174 ... 56585 81940 20361 760 35 00000	USB	(AB-J)
S06	13469	16-1	0930	Thu	842 760 35 94528 20628 28174 ... 56585 81940 20361 760 35 00000	USB	(AB-J)
S06	16243	17-1	0830	Fri	842 760 35 94528 20628 28174 ... 56585 81940 20361 760 35 00000	USB	(AB-J)
S06	13469	17-1	0930	Fri	842 760 35 94528 20628 28174 ... 56585 81940 20361 760 35 00000	USB	(AB-J)
S06	5097	17-1	2100	Fri	452 452 452 00000	USB	(AB)
S06	6792	27-1	0632	Mon	i.p. 381 51 00000	USB	(F5JBR)
S06c	7823	21-1	1317	Tue	i.p. 11625 (R)	USB	(ES-HOL)
S06s	7062	1-1	0830	Wed	464 915 7 87332 46509 21277 46550 20975 39880 15088 915 7 00000. S06s on 11535 kHz audible in the back-ground	USB	(AB)
S06s	11535	1-1	0830	Wed	172 869 5 35359 40299 67011 76992 30175 869 5 00000	USB	(AB)
S06s	10532	1-1	0840	Wed	464 915 7 87332 46509 21277 46550 20975 39880 15088 915 7 00000	USB	(AB)
S06s	11830	1-1	0840	Wed	172 869 5 35359 40299 67011 76992 30175 869 5 00000	USB	(AB)
S06s	8812	2-1	0930	Thu	698 273 5 11169 03439 43548 19152 23063 273 5 00000	USB	(AB)
S06s	9540	2-1	0940	Thu	698 273 5 11169 03439 43548 19152 23063 273 5 00000	USB	(AB)
S06s	12155	2-1	1200	Thu	175 948 6 20205 64336 95534 08446 87636 04475 948 6 00000	USB	(AB/MPJ)
S06s	10920	2-1	1210	Thu	175 948 6 20205 64336 95534 08446 87636 04475 948 6 00000	USB	(AB/MPJ)
S06s	11780	3-1	0630	Fri	156 932 7 73687 04565 39895 91670 29257 69816 97314 932 7 00000	USB	(AB-POL)
S06s	12570	3-1	0640	Fri	156 932 7 73687 04565 39895 91670 29257 69816 97314 932 7 00000	USB	(AB-POL)
S06s	5765	3-1	0900	Fri	239 810 5 36924 98924 56353 33884 84286 810 5 00000	USB	(AB)
S06s	6315	3-1	0910	Fri	239 810 5 36924 98924 56353 33884 84286 810 5 00000	USB	(AB)
S06s	8680	4-1	0800	Sat	132 846 5 73687 04565 39895 91670 29257 846 5 00000	USB	(AB)
S06s	8260	4-1	0810	Sat	132 846 5 73687 04565 39895 91670 29257 846 5 00000	USB	(AB)
S06s	13470	6-1	0630	Mon	462 915 7 04475 31467 53568 83168 97998 10205 64336 915 7 00000	USB	(AB-POL)
S06s	16515	6-1	0640	Mon	462 915 7 04475 31467 53568 83168 97998 10205 64336 915 7 00000	USB	(AB-POL)
S06s	8057	6-1	0830	Mon	764 209 5 69816 97314 15802 70076 29426 209 5 00000	USB	(AB)
S06s	8530	6-1	0840	Mon	764 209 5 69816 97314 15802 70076 29426 209 5 00000	USB	(AB)
S06s	14675	6-1	0900	Mon	232 907 5 95673 44707 03156 44395 63319 907 5 00000	USB	(AB-POL)
S06s	12830	6-1	0910	Mon	232 907 5 95673 44707 03156 44395 63319 907 5 00000	USB	(AB-POL)
S06s	8420	6-1	1300	Mon	149 260 5 10107 60562 48015 26417 12362 260 5 00000	USB	(AB/MPJ)
S06s	10635	6-1	1310	Mon	149 260 5 10107 60562 48015 26417 12362 260 5 00000	USB	(AB/MPJ)
S06s	16145	7-1	0600	Tue	438 519 6 04465 31467 52268 83168 97998 65860 519 6 00000	USB	(AB-KWT)
S06s	14240	7-1	0610	Tue	438 519 6 04465 31467 52268 83168 97998 65860 519 6 00000	USB	(AB-POL)
S06s	5250	7-1	0700	Tue	452 839 6 36924 98924 75353 33884 82749 10076 839 6 00000	USB	(AB)
S06s	6320	7-1	0710	Tue	452 839 6 36924 98924 75353 33884 82749 10076 839 6 00000	USB	(AB)
S06s	7140	7-1	0730	Tue	427 819 5 20205 64336 95534 98446 87636 819 5 00000	USB	(AB)
S06s	11532	7-1	0740	Tue	427 819 5 20205 64336 95534 98446 87636 819 5 00000	USB	(AB)
S06s	11945	7-1	0800	Tue	127 936 5 73687 04565 39895 21670 29257 936 5 00000	USB	(AB)
S06s	13195	7-1	0810	Tue	127 936 5 73687 04565 39895 21670 29257 936 5 00000	USB	(AB-AUT)
S06s	6440	7-1	1000	Tue	427 910 5 69816 97314 15802 70076 29421 910 5 00000	USB	(AB)
S06s	5660	7-1	1010	Tue	427 910 5 69816 97314 15802 70076 29421 910 5 00000	USB	(AB)

S06s	5035	7-1	1100	Tue	265 489 7 08446 87636 04475 31467 53368 83168 97998 489 7 00000	USB	(AB)
S06s	5975	7-1	1110	Tue	265 489 7 08446 87636 04475 31467 53368 83168 97998 489 7 00000	USB	(AB)
S06s	7062	8-1	0830	Wed	464 915 7 87332 46509 21277 46550 20975 39880 15088 915 7 00000	USB	(AB)
S06s	11535	8-1	0830	Wed	172 869 5 35359 40299 67011 76992 30175 869 5 00000	USB	(AB)
S06s	10532	8-1	0840	Wed	464 915 7 87332 46509 21277 46550 20975 39880 15088 915 7 00000	USB	(AB)
S06s	11830	8-1	0840	Wed	172 869 5 35359 40299 67011 76992 30175 869 5 00000	USB	(AB)
S06s	12365	8-1	1000	Wed	276 934 5 02062 24122 33346 65132 02232 934 5 00000	USB	(AB)
S06s	14280	8-1	1010	Wed	276 934 5 02062 24122 33346 65132 02232 934 5 00000	USB	(AB)
S06s	8812	9-1	0930	Thu	698 273 5 11169 03439 43548 19152 23063 273 5 00000	USB	(AB)
S06s	9540	9-1	0940	Thu	698 273 5 11169 03439 43548 19152 23063 273 5 00000	USB	(AB)
S06s	12155	9-1	1200	Thu	175 948 6 20205 64336 95534 08446 87636 04475 948 6 00000	USB	(AB/MPJ)
S06s	10920	9-1	1210	Thu	175 948 6 20205 64336 95534 08446 87636 04475 948 6 00000	USB	(AB/MPJ)
S06s	11780	10-1	0630	Fri	156 932 7 73687 04565 39895 91670 29257 69816 97314 932 7 00000	USB	(AB-POL)
S06s	12570	10-1	0640	Fri	156 932 7 73687 04565 39895 91670 29257 69816 97314 932 7 00000	USB	(AB-POL)
S06s	5765	10-1	0900	Fri	239 810 5 36924 98924 56353 33884 84286 810 5 00000	USB	(AB)
S06s	6315	10-1	0910	Fri	239 810 5 36924 98924 56353 33884 84286 810 5 00000	USB	(AB)
S06s	13470	13-1	0630	Mon	462 915 7 04475 31467 53568 83168 97998 10205 64336 915 7 00000	USB	(AB-POL)
S06s	16515	13-1	0640	Mon	462 915 7 04475 31467 53568 83168 97998 10205 64336 915 7 00000	USB	(AB-POL)
S06s	8057	13-1	0830	Mon	764 209 5 69816 97314 15802 70076 29426 209 5 00000	USB	(AB)
S06s	8530	13-1	0840	Mon	764 209 5 69816 97314 15802 70076 29426 209 5 00000	USB	(AB)
S06s	14675	13-1	0900	Mon	232 907 5 95693 44707 03156 44395 63319 907 5 00000	USB	(AB-POL)
S06s	12830	13-1	0910	Mon	232 907 5 95693 44707 03156 44395 63319 907 5 00000	USB	(AB)
S06s	8420	13-1	1300	Mon	149 260 5 10107 60562 48015 26417 12362 260 5 00000	USB	(AB)
S06s	10635	13-1	1310	Mon	149 260 5 10107 60562 48015 26417 12362 260 5 00000	USB	(AB)
S06s	16145	14-1	0600	Tue	438 519 6 04465 31467 52268 83168 97998 65860 519 6 00000	USB	(AB-UKR)
S06s	14240	14-1	0610	Tue	438 519 6 04465 31467 52268 83168 97998 65860 519 6 00000	USB	(AB-POL)
S06s	5250	14-1	0700	Tue	452 839 6 36924 98924 75353 33884 82749 10076 839 6 00000	USB	(AB)
S06s	6320	14-1	0710	Tue	452 839 6 36924 98924 75353 33884 82749 10076 839 6 00000	USB	(AB)
S06s	7140	14-1	0730	Tue	427 819 5 20204 64336 95534 98446 87636 819 5 00000	USB	(AB)
S06s	11532	14-1	0740	Tue	427 819 5 20204 64336 95534 98446 87636 819 5 00000	USB	(AB)
S06s	11945	14-1	0800	Tue	127 936 5 73687 04565 39895 91670 29257 936 5 00000	USB	(AB-POL)
S06s	13195	14-1	0810	Tue	127 936 5 73687 04565 39895 91670 29257 936 5 00000	USB	(AB-POL)
S06s	6440	14-1	1000	Tue	427 910 5 69816 97314 15802 70076 29421 910 5 00000	USB	(AB)
S06s	5660	14-1	1010	Tue	427 910 5 69816 97314 15802 70076 29421 910 5 00000	USB	(AB)
S06s	5035	14-1	1100	Tue	265 489 7 08446 87636 04475 31467 53368 83168 97998 489 7 00000	USB	(AB/MPJ)
S06s	5975	14-1	1110	Tue	265 489 7 08446 87636 04475 31467 53368 83168 97998 489 7 00000	USB	(AB/MPJ)
S06s	7062	15-1	0830	Wed	464 807 5 92103 50754 67971 25571 71582 807 5 00000. S06s on 11535 kHz in the background	USB	(AB)
S06s	11535	15-1	0830	Wed	172 904 5 76985 13776 95091 35527 04464 904 5 00000	USB	(AB/HFD)
S06s	11830	15-1	0840	Wed	172 904 5 76985 13776 95091 35527 04464 904 5 00000	USB	(AB/HFD)
S06s	10532	15-1	0840	Wed	464 807 5 92103 50754 67971 25571 71582 807 5 00000	USB	(AB)
S06s	12365	15-1	1000	Wed	276 418 5 06802 37432 33175 52224 32227 418 5 00000	USB	(AB)
S06s	14280	15-1	1010	Wed	276 418 5 06802 37432 33175 52224 32227 418 5 00000	USB	(AB)
S06s	8812	16-1	0930	Thu	698 407 5 21767 53672 11834 81022 36903 407 5 00000	USB	(AB)
S06s	9540	16-1	0940	Thu	698 407 5 21767 53672 11834 81022 36903 407 5 00000	USB	(AB)
S06s	12155	16-1	1200	Thu	175 824 6 52401 63919 92699 14600 84248 48754 824 6 00000	USB	(AB)
S06s	10920	16-1	1210	Thu	175 824 6 52401 63919 92699 14600 84248 48754 824 6 00000	USB	(AB)



S06s	11780	17-1	0630	Fri	156 203 7 88620 58069 61732 74537 53770 10597 23521 203 7 000000	USB	(AB-BLR)
S06s	12570	17-1	0640	Fri	156 203 7 88620 58069 61732 74537 53770 10597 23521 203 7 000000	USB	(AB-BLR)
S06s	5765	17-1	0900	Fri	239 461 5 88905 67201 65653 29875 31124 461 5 00000	USB	(AB)
S06s	6315	17-1	0910	Fri	239 461 5 88905 67201 65653 29875 31124 461 5 00000	USB	(AB)
S06s	13470	20-1	0630	Mon	462 903 5 73687 04656 39895 91670 29267 903 5 00000	USB	(AB-POL)
S06s	16515	20-1	0640	Mon	462 903 5 73687 04656 39895 91670 29267 903 5 00000	USB	(AB-POL)
S06s	8057	20-1	0830	Mon	764 812 5 80113 13680 24519 33226 36362 812 5 00000	USB	(AB)
S06s	8530	20-1	0840	Mon	764 812 5 80113 13680 24519 33226 36362 812 5 00000	USB	(AB)
S06s	14675	20-1	0900	Mon	232 809 5 04731 60677 77532 61912 06987 809 5 00000	USB	(AB)
S06s	12830	20-1	0910	Mon	232 809 5 04731 60677 77532 61912 06987 809 5 00000	USB	(AB)
S06s	8420	20-1	1300	Mon	149 823 5 61719 58159 87639 92294 17231 823 5 00000	USB	(AB/MPJ)
S06s	10635	20-1	1310	Mon	149 823 5 61719 58159 87639 92294 17231 823 5 00000	USB	(AB/MPJ)
S06s	5250	21-1	0700	Tue	452 971 6 24541 33941 56823 43884 85518 35628 971 6 00000	USB	(AB)
S06s	6320	21-1	0710	Tue	452 971 6 24541 33941 56823 43884 85518 35628 971 6 00000	USB	(AB)
S06s	11945	21-1	0800	Tue	127 469 5 24541 33941 56823 43884 85518 469 5 00000	USB	(AB)
S06s	13195	21-1	0810	Tue	127 469 5 24541 33941 56823 43884 85518 469 5 00000	USB	(AB-POL)
S06s	6440	21-1	1000	Tue	427 839 5 56599 04308 83774 48081 15557 839 5 00000	USB	(AB)
S06s	5660	21-1	1010	Tue	427 839 5 56599 04308 83774 48081 15557 839 5 00000	USB	(AB)
S06s	5035	21-1	1100	Tue	265 943 7 81918 04774 05990 45844 28524 22280 79744 943 7 00000	USB	(AB)
S06s	5975	21-1	1110	Tue	265 943 7 81918 04774 05990 45844 28524 22280 79744 943 7 00000	USB	(AB)
S06s	11535	22-1	0830	Wed	172 904 5 76985 13776 95091 35527 04464 904 5 00000	USB	(AB)
S06s	7062	22-1	0830	Wed	464 807 5 92103 50754 67971 25571 71582 807 5 00000	USB	(AB)
S06s	10532	22-1	0840	Wed	464 807 5 92103 50754 67971 25571 71582 807 5 00000	USB	(AB)
S06s	11830	22-1	0840	Wed	172 904 5 76985 13776 95091 35527 04464 904 5 00000	USB	(AB)
S06s	12365	22-1	1000	Wed	276 418 5 06802 37432 33175 52224 32227 418 5 00000	USB	(AB)
S06s	14280	22-1	1010	Wed	276 418 5 06802 37432 33175 52224 32227 418 5 00000	USB	(AB)
S06s	8812	23-1	0930	Thu	No transmission	USB	(AB)
S06s	9540	23-1	0940	Thu	698 407 5 21767 53672 11834 81022 36903 407 5 00000	USB	(AB)
S06s	12155	23-1	1200	Thu	175 824 6 52401 63919 92699 14600 84248 48754 824 6 00000	USB	(AB)
S06s	10920	23-1	1210	Thu	175 824 6 52401 63919 92699 14600 84248 48754 824 6 00000	USB	(AB)
S06s	5765	24-1	0900	Fri	239 461 5 88905 67201 65653 29875 31124 461 5 00000	USB	(AB)
S06s	6315	24-1	0910	Fri	239 461 5 88905 67201 65653 29875 31124 461 5 00000	USB	(AB)
S06s	13470	27-1	0630	Mon	462 903 5 73687 04656 39895 91670 29267 903 5 00000	USB	(AB-POL)
S06s	16515	27-1	0640	Mon	462 903 5 73687 04656 39895 91670 29267 903 5 00000	USB	(AB-POL)
S06s	8057	27-1	0830	Mon	764 812 5 80113 13680 24519 33226 36362 812 5 00000	USB	(AB)
S06s	8530	27-1	0840	Mon	764 812 5 80113 13680 24519 33226 36362 812 5 00000	USB	(AB)
S06s	14675	27-1	0900	Mon	232 809 5 04731 60677 77532 61912 06987 809 5 00000	USB	(AB-POL)
S06s	12830	27-1	0910	Mon	232 809 5 04731 60677 77532 61912 06987 809 5 00000	USB	(AB)
S06s	8420	27-1	1300	Mon	149 823 5 61719 58159 87639 92294 17231 823 5 00000	USB	(AB)
S06s	10635	27-1	1310	Mon	149 823 5 61719 58159 87639 92294 17231 823 5 00000	USB	(AB)
S06s	16145	28-1	0600	Tue	438 516 7 65959 30803 83773 48081 15577 34020 27466 516 7 00000	USB	(AB-KWT)
S06s	14240	28-1	0610	Tue	438 516 7 65959 30803 83773 48081 15577 34020 27466 516 7 00000	USB	(AB-RUS)
S06s	5250	28-1	0700	Tue	452 971 6 24541 33941 56823 43884 85518 35628 971 6 00000	USB	(AB)
S06s	6320	28-1	0710	Tue	452 971 6 24541 33941 56823 43884 85518 35628 971 6 00000	USB	(AB)
S06s	7410	28-1	0730	Tue	427 869 5 33976 50598 23496 41266 49805 869 5 00000	USB	(AB)
S06s	11532	28-1	0740	Tue	427 869 5 33976 50598 23496 41266 49805 869 5 00000	USB	(AB)

S06s	11945	28-1	0800	Tue	127 469 5 24541 33941 56823 43884 85518 469 5 00000	USB	(AB)
S06s	13195	28-1	0810	Tue	127 469 5 24541 33941 56823 43884 85518 469 5 00000	USB	(AB-POL)
S06s	6440	28-1	1000	Tue	427 839 5 56599 04308 83774 48081 15557 839 5 00000	USB	(AB)
S06s	5660	28-1	1010	Tue	427 839 5 56599 04308 83774 48081 15557 839 5 00000	USB	(AB)
S06s	5035	28-1	1100	Tue	265 943 7 81918 04774 05990 45844 28524 22280 79744 943 7 00000	USB	(AB)
S06s	5975	28-1	1110	Tue	265 943 7 81918 04774 05990 45844 28524 22280 79744 943 7 00000	USB	(AB)
S06s	7062	29-1	0830	Wed	464 464 464 00000	USB	(AB)
S06s	11535	29-1	0830	Wed	172 172 172 00000	USB	(AB)
S06s	11830	29-1	0840	Wed	172 172 172 00000	USB	(AB)
S06s	10532	29-1	0840	Wed	464 464 464 00000	USB	(AB)
S06s	12365	29-1	1000	Wed	276 276 276 00000	USB	(AB)
S06s	14280	29-1	1010	Wed	276 276 276 00000	USB	(AB)
S06s	8812	30-1	0930	Thu	698 698 698 00000	USB	(AB)
S06s	9540	30-1	0940	Thu	698 698 698 00000	USB	(AB)
S06s	12155	30-1	1200	Thu	175 175 175 00000	USB	(AB)
S06s	10920	30-1	1210	Thu	175 175 175 00000	USB	(AB)
S06s	11040	31-1	0830	Fri	156 156 156 00000	USB	(AB)
S06s	12153	31-1	0839	Fri	156 156 156 00000	USB	(AB)
S06s	5765	31-1	0900	Fri	239 239 239 00000	USB	(AB)
S06s	6315	31-1	0910	Fri	239 239 239 00000	USB	(AB)
S11a	9050	2-1	0700	Thu	479/00	USB	(AB-POL/ES)
S11a	4242	3-1	0915	Fri	480/00	USB	(AB)
S11a	7600	3-1	1020	Fri	427/00	USB	(AB)
S11a	5371	3-1	1100	Fri	376/38 Vnimanije 98233 94606 19710 ... 01924 68687 80245 Vnimanije (message repeated) Konets	USB	(AB)
S11a	11486	4-1	1850	Sat	284/00	UDB	(AB)
S11a	9050	6-1	0700	Mon	470/00	USB	(ES)
S11a	4242	6-1	0915	Mon	485/00	USB	(AB)
S11a	7600	7-1	1020	Tue	429/00	USB	(AB)
S11a	9057	8-1	0510	Wed	657/00	USB	(AB-POL)
S11a	5371	8-1	1100	Wed	378/00	USB	(AB/MPJ)
S11a	11486	8-1	1850	Wed	280/00	USB	(AB/MPJ)
S11a	9050	9-1	0700	Thu	471/00	USB	(AB-POL/ES)
S11a	5371	10-1	1100	Fri	377/00	USB	(AB)
S11a	11486	11-1	1850	Sat	282/00	UDB	(AB/MPJ)
S11a	9050	13-1	0700	Mon	477/00	USB	(AB/ES-HOL)
S11a	18636	13-1	0800	Mon	655/00	USB	(Danix)
S11a	4242	13-1	0915	Mon	480/00	USB	(AB)
S11a	7600	14-1	1020	Tue	424/00	USB	(AB)
S11a	9057	15-1	0510	Wed	656/00	USB	(AB-POL)
S11a	17120	15-1	0700	Wed	652/00	USB	(Danix)
S11a	14611	15-1	0740	Wed	650/00	USB	(AB)
S11a	15825	15-1	0840	Wed	656/00	USB	(Danix)
S11a	17378	15-1	1040	Wed	654/00	USB	(Danix)
S11a	5371	15-1	1100	Wed	370/00	USB	(AB)
S11a	16125	15-1	1140	Wed	650/00	USB	(Danix)
S11a	11486	15-1	1850	Wed	285/37 Vnimanije 39949 16842 46593 ... 18689 04043 68420 konets	USB	(MPJ)

S11a	9050	16-1	0700	Thu	476/00	USB	(AB)
S11a	5371	17-1	1100	Fri	370/00	USB	(AB/ES-HOL)
S11a	9057	20-1	0510	Mon	656/00	USB	(AB)
S11a	9050	20-1	0700	Mon	470/00	USB	(AB/ES-HOL)
S11a	4242	20-1	0915	Mon	480/00	USB	(AB)
S11a	7600	21-1	1020	Tue	427/33 Vnimanaye 10255 35445 68064 ... 65312 20886 83180 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	9057	22-1	0510	Wed	659/00	USB	(AB-POL)
S11a	5371	22-1	1100	Wed	370/00	USB	(AB)
S11a	11486	22-1	1850	Wed	284/00	USB	(AB-POL)
S11a	9050	23-1	0700	Thu	476/00	USB	(AB/ES-HOL)
S11a	4242	24-1	0915	Fri	484/00	USB	(AB)
S11a	7600	24-1	1020	Fri	427/33 Vnimanaye 10255 35445 68064 ... 65312 20886 83180 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	5371	24-1	1100	Fri	370/00	USB	(AB)
S11a	11486	25-1	1850	Sat	281/00	USB	(AB-POL)
S11a	9057	27-1	0510	Mon	659/37 Vnimanaye 32611 00293 05582 ... 48299 31119 82542 Vnimanaye (message repeated) Konets	USB	(AB-POL)
S11a	9050	27-1	0700	Mon	471/33 Vnimanaye 02060 03941 78245 ... 60948 96441 92410 Vnimanaye (message repeated) Konets	USB	(AB-POL/ES-HOL)
S11a	4242	27-1	0915	Mon	484/39 Vnimanaye 91453 83277 08309 ... 14995 98872 65575 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	7600	28-1	1020	Tue	424/00	USB	(AB)
S11a	9057	29-1	0510	Wed	659/37 Vnimanaye 32611 00293 05582 ... 48299 31119 82542 Vnimanaye (message repeated) Konets	USB	(AB-POL)
S11a	5371	29-1	1100	Wed	372/00	USB	(AB)
S11a	11486	29-1	1850	Wed	284/00	USB	(AB-POL)
S11a	9050	30-1	0700	Thu	471/33 Vnimanaye 02060 03941 78245 ... 60948 96441 92410 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	4242	31-1	0915	Fri	484/39 Vnimanaye 91453 83277 08309 ... 14995 98872 65575 Vnimanaye (message repeated) Konets	USB	(AB)
S11a	5371	31-1	1100	Fri	370/00	USB	(AB)
S28	9250	26-1	0854	Sun	Buzzer channel marker. Harmonic of 4625 kHz	USB	(AB)
S28	4625	26-1	0854	Sun	Buzzer channel marker. Harmonic on 9250 kHz	USB	(AB)
S28	4625	31-1	0901	Fri	Buzzer channel marker. Harmonic on 9250 kHz	USB	(AB)
S28	9250	31-1	0901	Fri	Buzzer channel marker. Harmonic of 4625 kHz	USB	(AB)
S30	5448	6-1	1328	Mon	ShchT3O, CIHS, Z7PM, S7ZhG, Z'1B, CI9V, ZhSK4, HZ5T, 5FSShch, 8MUO	USB	(Gwr)
S30	5448	10-1	1004	Fri	8S1Shch 86510 ZYeRNOVKA 1883 2883	USB	(Gwr)
S30	5448	10-1	1025	Fri	8S1Shch 39194 KYeRSANTIT 5972 3568	USB	(Gwr)
S30	5448	10-1	1206	Fri	61HZh ZBIL L7O5 V'Z' NLCYe LI27 V2MZ SB7Z 'O6P Y8VM	USB	(Gwr)
S30	5448	10-1	1227	Fri	8S1Shch Proverka vyzova 4321 1234	USB	(Gwr)
S30	5448	15-1	0600	Wed	8S1Shch SOCIOLOG 9679	USB	(Gwr)
S30	5448	15-1	0953	Wed	8S1Shch 86367 LOMOZUDA 1705 4501	USB	(Gwr)
S30	5448	15-1	1056	Wed	ShchT3O CIHS Z7PM S7ZhG Z'1b CI9V ZhSK4 HZ5T 5FSShch 8MUO	USB	(Gwr)
S30	5448	15-1	1200	Wed	8S1Shch 11752 97342 ZAIROGRUZ 1160 9813 BAZOMAK 9359 3354 No follow-on message from Wheel, ONG4 or N'ZhJ	USB	(Gwr)
S30	5448	20-1	1026	Mon	8S1Shch 77076 NAKLYeP 7522 2550	USB	(Gwr)
S30	5448	29-1	1157	Wed	8S1Shch KOTOPUH 105	USB	(Gwr)
S30	3756	29-1	1412	Wed	F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS	USB	(Gwr)
S30	6922	30-1	0923	Thu	8S1Shch 89686 ZhLOBOKROT 9613 5316. Male operator	USB	(Gwr)
S30	5448	30-1	0923	Thu	8S1Shch 89686 ZhLOBOKROT 9613 5316. Female operator	USB	(Gwr)
S30	6922	30-1	0929	Thu	8S1Shch 46463 JOTOGROG 2943 9732. Male operator	USB	(Gwr)
S30	5448	30-1	0929	Thu	8S1Shch 46463 JOTOGROG 2943 9732. Female operator	USB	(Gwr)
S30	6922	30-1	0941	Thu	8S1Shch 11484 KObYeLYeK 3652 0637. Male operator	USB	(Gwr)

S30	5448	30-1	0941	Thu	8S1Shch 11484 KOBYeLYeK 3652 0637. Female operator	USB	(Gwr)
S30	6922	30-1	0947	Thu	8S1Shch 38931 BANTORAJ 9179 7136. Male operator	USB	(Gwr)
S30	5448	30-1	0947	Thu	8S1Shch 29129 KOLONIALIZM 7839 0752. Female operator	USB	(Gwr)
S30	6922	30-1	0947	Thu	8S1Shch 29129 KOLONIALIZM 7839 0752. Male operator	USB	(Gwr)
S30	5448	30-1	0947	Thu	8S1Shch 38931 BANTORAJ 9179 7136. Female operator	USB	(Gwr)
S30	6922	30-1	1119	Thu	8S1Shch 50103 MYeTYeN'Ye 4303 5812. Male operator	USB	(Gwr)
S30	5448	30-1	1119	Thu	8S1Shch 50103 MYeTYeN'Ye 4303 5812. Female operator	USB	(Gwr)
S30	5448	30-1	1239	Thu	8S1Shch 20677 NORDOSYeT 3463 4933. Female operator	USB	(Gwr)
S30	6922	30-1	1239	Thu	8S1Shch 20677 NORDOSYeT 3463 4933. Male operator	USB	(Gwr)
S30	5448	30-1	1314	Thu	8S1Shch 22635 VUKOSAK 9162 9816	USB	(Gwr)
S32	5473	6-1	1210	Mon	Al'fa-45 82601 NYeUSTANNYJ 8796 4311 (CW XXX version on 5360 kHz)	USB	(Gwr)
S32	5473	10-1	1009	Fri	Al'fa-45 50808 KAYuKOKOSVh 4019 2802	USB	(Gwr)
S32	5473	10-1	1030	Fri	Al'fa-45 78299 MATChOLYaZG 2495 8270	USB	(Gwr)
S32	5473	10-1	1232	Fri	Al'fa-45 Proverka vyzova 4321 1234	USB	(Gwr)
S32	3828	15-1	0603	Wed	Al'fa-45 SOCIOLOG 9679	USB	(Gwr)
S32	5473	15-1	0959	Wed	Al'fa-45 81692 NYeRAZ'YeMNYJ 5063 8603	USB	(Gwr)
S32	5473	20-1	1031	Mon	Al'fa-45 43335 MASHYeROChKA 8497 7768	USB	(Gwr)
S32	5473	29-1	1202	Wed	Al'fa-45 KOTOPUH 105	USB	(Gwr)
S32	5473	30-1	0928	Thu	Al'fa-45 65807 GLOBOID 7845 3256	USB	(Gwr)
S32	5473	30-1	0933	Thu	Al'fa-45 32445 ZhRYeCOShTAT 2589 9874	USB	(Gwr)
S32	5473	30-1	0944	Thu	Al'fa-45 58792 OBYeSCYeNYeN'Ye 1124 9975	USB	(Gwr)
S32	5473	30-1	0951	Thu	Al'fa-45 02812 ZUBRYeNIYe 1221 6549	USB	(Gwr)
S32	5473	30-1	1012	Thu	Al'fa-45 42439 MOROSKA 5775 7151	USB	(Gwr)
S32	5473	30-1	1123	Thu	Al'fa-45 44175 BASKOHVAT 5748 9952	USB	(Gwr)
S32	5473	30-1	1243	Thu	Al'fa-45 15072 MYeHOBRYaK 4778 8446	USB	(Gwr)
S32	5473	30-1	1317	Thu	Al'fa-45 62798 BOBOPOL 4931 4625	USB	(Gwr)
UM03	8410	11-1	0736	Sat	13 13 CK 100 CK 100 TIME 1436 TIME 1436 DATE 1101 DATE 1101 = KNCET CFUWL UJYAP BQSJZ ... on 7920, 8250, 8410 kHz	CW	(JPL-HK)
UM03	8250	11-1	0736	Sat	13 13 CK 100 CK 100 TIME 1436 TIME 1436 DATE 1101 DATE 1101 = KNCET CFUWL UJYAP BQSJZ ... on 7920, 8250, 8410 kHz	CW	(JPL-HK)
UM03	7920	11-1	0736	Sat	13 13 CK 100 CK 100 TIME 1436 TIME 1436 DATE 1101 DATE 1101 = KNCET CFUWL UJYAP BQSJZ ... on 7920, 8250, 8410 kHz	CW	(JPL-HK)
UM10	3860	10-1	2348	Fri	10-minutes net: L6YC	CW	(JPL-CHN)
UM10	3860	27-1	1820	Mon	10-minutes net: L6YC	CW	(F5JBR)
V06	10755	29-1	0830	Wed	975 975 975 89412 (R) 248 30 85340 28247 39957 ... 10460 56104 99319 248 30 00000	USB	(Danix)
V07	15893	12-1	0100	Sun	868 868 868 1 5875 106 5875 106 17027 13015 91275 ... 01181 45723 53667 000 000	USB	(Dan)
V07	14693	12-1	0120	Sun	868 868 868 1 5875 106 5875 106 17027 13015 91275 ... 01181 45723 53667 000 000	USB	(Dan)
V07	13893	12-1	0140	Sun	868 868 868 1 5875 106 5875 106 17027 13015 91275 ... 01181 45723 53667 000 000	USB	(Dan)
V07	15893	19-1	0100	Sun	868 868 868 1 555 142 155 142 56763 09377 38942 .... 08582 29701 000 000	USB	(Dan)
V07	14693	19-1	0120	Sun	868 868 868 1 555 142 155 142 56763 09377 38942 .... 08582 29701 000 000	USB	(Dan)
V07	13893	19-1	0140	Sun	868 868 868 1 555 142 155 142 56763 09377 38942 .... 08582 29701 000 000	USB	(Dan)
V07	15893	26-1	0100	Sun	868 1-384/130= 63150 via KiwiSDR USA	USB	(HFD-USA)
V07	14693	26-1	0120	Sun	868 1 via KiwiSDR USA	USB	(HFD-USA)
V07	13893	26-1	0140	Sun	868 1 via KiwiSDR USA	USB	(HFD)
V24	6215	7-1	1500	Tue	K-popsong followed by a message in Korean	AM	(AB)
V24	4925	11-1	1430	Sat	Dvorak's Slavonic Dances followed by a message in Korean	AM	(AB-KOR)

V24	4925	13-1	1430	Mon	Dvorak's Slavonic Dances followed by a message in Korean	AM	(AB-KOR)
V24	4925	15-1	1430	Wed	Dvorak's Slavonic Dances followed by a message in Korean	AM	(AB-J)
V28	3529	8-1	0900	Wed	Parrot. Messages in Korean. Sounded like as 1-2-3 1-2-3 SAN HA SAN	AM	(HK)
V28	2933	8-1	0900	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4627	8-1	0901	Wed	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	5149	8-1	0903	Wed	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	3517	20-1	0900	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	2935	20-1	0900	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	5147	20-1	0900	Mon	Parrot. Messages in Korean. Male operator	AM	(HK)
V28	4624	20-1	0900	Mon	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	3049	28-1	2100	Tue	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4494	28-1	2100	Tue	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	2998	28-1	2104	Tue	Parrot. Messages in Korean. Female operator	AM	(HK)
V28	4509	31-1	2100	Fri	Parrot. Messages in Korean	AM	(HK)
V28	3048	31-1	2103	Fri	Parrot. Messages in Korean	AM	(HK)
V28	2998	31-1	2104	Fri	Parrot. Messages in Korean	AM	(HK)
V28	2997.4	31-1	2105	Fri	Parrot. Messages in Korean. Female operator	AM	(Phi-CHN)
V28	3048.2	31-1	2105	Fri	Parrot. Messages in Korean. Female operator	AM	(Phi-CHN)
X06	14650	15-1	1108	Wed	MFA Moscow clg 215346: Russian Consulate General Mumbai	MFSK-6	(ES)
X06	12200	17-1	0705	Fri	MFA Moscow clg 241563: Russian Consulate General Karachi	MFSK-6	(AB)
X06	14970	28-1	1025	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(ES-HOL)
X06b	9165	7-1	1522	Tue	Sequence 111666 before XPA2	MFSK-6	(AB)
X06b	10465	7-1	1523	Tue	Sequence 111666 before XPA2	MFSK-6	(AB)
X06b	8065	7-1	1523	Tue	Sequence 111666 before XPA2	MFSK-6	(AB)
X06b	9165	7-1	1524	Tue	Sequence 111666 before XPA2	MFSK-6	(AB)
X06b	8065	7-1	1526	Tue	Sequence 111666 before XPA2	MFSK-6	(AB)
X06b	9165	7-1	1527	Tue	Sequence 111666 before XPA2	MFSK-6	(AB)
X06b	10465	7-1	1528	Tue	Sequence 111666 before XPA2	MFSK-6	(AB)
X06b	8065	7-1	1536	Tue	Sequence 111666 before XPA2	MFSK-6	(AB)
X06b	9165	7-1	1538	Tue	Sequence 111666 before XPA2	MFSK-6	(AB)
X06b	10465	7-1	1540	Tue	Sequence 111666 before XPA2	MFSK-6	(AB)
X06b	12169	18-1	1014	Sat	Sequence 111666 before XPB1	MFSK-6	(AB)
X06b	10323	25-1	1206	Sat	Sequence: 111666 before E07	MFSK-6	(MPJ)
X06b	9123	25-1	1209	Sat	Sequence: 111666 before E07	MFSK-6	(MPJ)
XPA1	12157	2-1	0810	Thu	265 265 265 000 03106 00001 00000 34653	MFSK-20/10Bd	(AB/HFD)
XPA1	13462	2-1	0830	Thu	265 265 265 000 03106 00001 00000 34653	MFSK-20/10Bd	(AB/HFD)
XPA1	14374	2-1	0850	Thu	265 265 265 000 03106 00001 00000 34653	MFSK-20/10Bd	(AB/HFD)
XPA1	12157	7-1	0810	Tue	265 265 265 000 02448 00001 00000 37256	MFSK-20/10Bd	(AB)
XPA1	13462	7-1	0830	Tue	stopped during sync sequence	MFSK-20/10Bd	(AB)
XPA1	14374	7-1	0850	Tue	265 265 265 000 02448 00001 00000 37256	MFSK-20/10Bd	(AB)
XPA1	12157	9-1	0810	Thu	265 265 265 000 07055 00001 00000 33664	MFSK-20/10Bd	(AB)
XPA1	13462	9-1	0830	Thu	265 265 265 000 07055 00001 00000 33664	MFSK-20/10Bd	(AB)
XPA1	14374	9-1	0850	Thu	265 265 265 000 07055 00001 00000 33664	MFSK-20/10Bd	(AB)
XPA1	12157	14-1	0810	Tue	265 265 265 1 05815 00104 56400 ... 41240 13754 13745	MFSK-20/10Bd	(AB)
XPA1	13462	14-1	0830	Tue	265 265 265 1 05815 00104 56400 ... 41240 13754 13745	MFSK-20/10Bd	(AB)
XPA1	14374	14-1	0850	Tue	265 265 265 1 05815 00104 56400 ... 41240 13754 13745	MFSK-20/10Bd	(AB)

XPA1	12157	16-1	0810	Thu	265 265 265 1 05815 00104 56400 ... 41240 13754 13745	MFSK-20/10Bd	(AB)
XPA1	13462	16-1	0830	Thu	265 265 265 1 05815 00104 56400 ... 41240 13754 13745	MFSK-20/10Bd	(AB)
XPA1	14374	16-1	0850	Thu	265 265 265 1 05815 00104 56400 ... 41240 13754 13745	MFSK-20/10Bd	(AB)
XPA1	12157	21-1	0810	Tue	265 265 265 000 02702 00001 00000 35652	MFSK-20/10Bd	(AB)
XPA1	13462	21-1	0830	Tue	265 265 265 000 02702 00001 00000 35652	MFSK-20/10Bd	(AB)
XPA1	14374	21-1	0850	Tue	265 265 265 000 02702 00001 00000 35652	MFSK-20/10Bd	(AB)
XPA1	12157	23-1	0810	Thu	265 265 265 000 03861 00001 00000 35661	MFSK-20/10Bd	(AB)
XPA1	13462	23-1	0830	Thu	265 265 265 000 03861 00001 00000 35661	MFSK-20/10Bd	(AB)
XPA1	14374	23-1	0850	Thu	265 265 265 000 03861 00001 00000 35661	MFSK-20/10Bd	(AB)
XPA1	12157	28-1	0810	Tue	265 265 265 000 01424 00001 00000 35253	MFSK-20/10Bd	(AB)
XPA1	13462	28-1	0830	Tue	265 265 265 000 01424 00001 00000 35253	MFSK-20/10Bd	(AB)
XPA1	14374	28-1	0850	Tue	265 265 265 000 01424 00001 00000 35253	MFSK-20/10Bd	(AB)
XPA1	12157	30-1	0810	Thu	265 265 265 000 07437 00001 00000 36662	MFSK-20/10Bd	(AB)
XPA1	13462	30-1	0830	Thu	265 265 265 000 07437 00001 00000 36662	MFSK-20/10Bd	(AB)
XPA1	14374	30-1	0850	Thu	265 265 265 000 07437 00001 00000 36662	MFSK-20/10Bd	(AB)
XPA2	14977	1-1	0910	Wed	08630 00001 00000 34653	MFSK-16/20Bd	(AB)
XPA2	13971	1-1	0930	Wed	08630 00001 00000 34653	MFSK-16/20Bd	(AB)
XPA2	13371	1-1	0950	Wed	08630 00001 00000 34653	MFSK-16/20Bd	(AB)
XPA2	14794	2-1	0910	Thu	03978 00001 00000 41662	MFSK-16/20Bd	(AB/RL/HFD)
XPA2	13994	2-1	0930	Thu	03978 00001 00000 41662	MFSK-16/20Bd	(AB/RL/HFD)
XPA2	12194	2-1	0950	Thu	03978 00001 00000 41662	MFSK-16/20Bd	(AB/RL/HFD)
XPA2	10465	2-1	1600	Thu	02906 00001 00000 40652	MFSK-16/20Bd	(MPJ/HFD-RUS)
XPA2	9165	2-1	1620	Thu	02906 00001 00000 40652	MFSK-16/20Bd	(MPJ/HFD-RUS)
XPA2	8065	2-1	1640	Thu	02906 00001 00000 40652	MFSK-16/20Bd	(MPJ/HFD-RUS)
XPA2	10726	3-1	1200	Fri	03617 00001 00000 37654	MFSK-16/20Bd	(AB/HFD)
XPA2	11426	3-1	1220	Fri	03617 00001 00000 37654	MFSK-16/20Bd	(AB/HFD)
XPA2	12226	3-1	1240	Fri	03617 00001 00000 37654	MFSK-16/20Bd	(AB/HFD)
XPA2	14794	4-1	0910	Sat	05960 00001 00000 35663	MFSK-16/20Bd	(AB/RL)
XPA2	13994	4-1	0930	Sat	05960 00001 00000 35663	MFSK-16/20Bd	(AB/RL)
XPA2	12194	4-1	0950	Sat	05960 00001 00000 35663	MFSK-16/20Bd	(AB/RL)
XPA2	9317	4-1	1600	Sat	04042 00001 00000 32260	MFSK-16/20Bd	(AB/HFD)
XPA2	8117	4-1	1620	Sat	04042 00001 00000 32260	MFSK-16/20Bd	(AB/HFD)
XPA2	7517	4-1	1640	Sat	04042 00001 00000 32260	MFSK-16/20Bd	(AB/HFD)
XPA2	11493	6-1	0800	Mon	03914 00001 00000 37654	MFSK-16/20Bd	(AB)
XPA2	13393	6-1	0820	Mon	03914 00001 00000 37654	MFSK-16/20Bd	(AB)
XPA2	13993	6-1	0840	Mon	03914 00001 00000 37654	MFSK-16/20Bd	(AB)
XPA2	14977	6-1	0910	Mon	02612 00001 00000 35253	MFSK-16/20Bd	(AB)
XPA2	13971	6-1	0930	Mon	02612 00001 00000 35253	MFSK-16/20Bd	(AB)
XPA2	13371	6-1	0950	Mon	02612 00001 00000 35253	MFSK-16/20Bd	(AB)
XPA2	9317	6-1	1600	Mon	07423 00001 00000 34661	MFSK-16/20Bd	(AB/MPJ)
XPA2	8117	6-1	1620	Mon	07423 00001 00000 34661	MFSK-16/20Bd	(AB/MPJ)
XPA2	7517	6-1	1640	Mon	07423 00001 00000 34661	MFSK-16/20Bd	(AB/MPJ)
XPA2	10921	7-1	1200	Tue	04787 00001 00000 40264	MFSK-16/20Bd	(AB/HFD)
XPA2	12221	7-1	1220	Tue	04787 00001 00000 40264	MFSK-16/20Bd	(AB/HFD)
XPA2	13521	7-1	1240	Tue	04787 00001 00000 40264	MFSK-16/20Bd	(AB/HFD)
XPA2	10465	7-1	1600	Tue	05790 00001 00000 34666	MFSK-16/20Bd	(AB/MPJ)

XPA2	9165	7-1	1620	Tue	05790 00001 00000 34666	MFSK-16/20Bd	(AB/MPJ)
XPA2	8065	7-1	1640	Tue	05790 00001 00000 34666	MFSK-16/20Bd	(AB/MPJ)
XPA2	11493	8-1	0800	Wed	01621 00001 00000 34653	MFSK-16/20Bd	(AB)
XPA2	13393	8-1	0820	Wed	01621 00001 00000 34653	MFSK-16/20Bd	(AB)
XPA2	13993	8-1	0840	Wed	01621 00001 00000 34653	MFSK-16/20Bd	(AB)
XPA2	14977	8-1	0910	Wed	09889 00001 000000 41671	MFSK-16/20Bd	(AB)
XPA2	13971	8-1	0930	Wed	09889 00001 000000 41671	MFSK-16/20Bd	(AB)
XPA2	13371	8-1	0950	Wed	09889 00001 000000 41671	MFSK-16/20Bd	(AB)
XPA2	10726	8-1	1200	Wed	02505 00001 00000 36252	MFSK-16/20Bd	(AB)
XPA2	11426	8-1	1220	Wed	02505 00001 00000 36252	MFSK-16/20Bd	(AB)
XPA2	12226	8-1	1240	Wed	02505 00001 00000 36252	MFSK-16/20Bd	(AB)
XPA2	14794	9-1	0910	Thu	05872 00001 00000 36264	MFSK-16/20Bd	(AB/RL)
XPA2	13994	9-1	0930	Thu	05872 00001 00000 36264	MFSK-16/20Bd	(AB/RL)
XPA2	12194	9-1	0950	Thu	05872 00001 00000 36264	MFSK-16/20Bd	(AB/RL)
XPA2	10465	9-1	1600	Thu	09917 00001 00000 41256	MFSK-16/20Bd	(AB)
XPA2	9165	9-1	1620	Thu	09917 00001 00000 41256	MFSK-16/20Bd	(AB)
XPA2	8065	9-1	1640	Thu	09917 00001 00000 41256	MFSK-16/20Bd	(AB)
XPA2	10726	10-1	1200	Fri	09443 00036 72943... 32752 54713 00173	MFSK-16/20Bd	(AB/MPJ)
XPA2	11426	10-1	1220	Fri	09443 00036 72943... 32752 54713 00173	MFSK-16/20Bd	(AB/MPJ/RL)
XPA2	12226	10-1	1240	Fri	09443 00036 72943... 32752 54713 00173	MFSK-16/20Bd	(AB/MPJ)
XPA2	14794	11-1	0910	Sat	09266 00001 00000 35267	MFSK-16/20Bd	(AB/RL)
XPA2	13994	11-1	0930	Sat	09266 00001 00000 35267	MFSK-16/20Bd	(AB/RL)
XPA2	12194	11-1	0950	Sat	09266 00001 00000 35267	MFSK-16/20Bd	(AB/RL)
XPA2	9317	11-1	1600	Sat	01583 00001 00000 35261	MFSK-16/20Bd	(AB/MPJ)
XPA2	8117	11-1	1620	Sat	01583 00001 00000 35261	MFSK-16/20Bd	(AB/MPJ)
XPA2	7517	11-1	1640	Sat	01583 00001 00000 35261	MFSK-16/20Bd	(AB/MPJ)
XPA2	11493	13-1	0800	Mon	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB/HFD)
XPA2	13393	13-1	0820	Mon	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB/HFD)
XPA2	13993	13-1	0840	Mon	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB/HFD)
XPA2	14977	13-1	0910	Mon	07268 00120 25970 ... 07547 61405 65666	MFSK-16/20Bd	(AB/HFD)
XPA2	13971	13-1	0930	Mon	07268 00120 25970 ... 07547 61405 65666	MFSK-16/20Bd	(AB/RL/HFD)
XPA2	13371	13-1	0950	Mon	07268 00120 25970 ... 07547 61405 65666	MFSK-16/20Bd	(AB/RL/HFD)
XPA2	9317	13-1	1600	Mon	message too weak to copy	MFSK-16/20Bd	(AB)
XPA2	8117	13-1	1620	Mon	message too weak to copy	MFSK-16/20Bd	(AB/GHn)
XPA2	7517	13-1	1640	Mon	message too weak to copy	MFSK-16/20Bd	(AB)
XPA2	10921	14-1	1200	Tue	08012 00156 66644 ... 73472 27762 10203	MFSK-16/20Bd	(AB)
XPA2	12221	14-1	1220	Tue	08012 00156 66644 ... 73472 27762 10203	MFSK-16/20Bd	(AB)
XPA2	13521	14-1	1240	Tue	08012 00156 66644 ... 73472 27762 10203	MFSK-16/20Bd	(AB)
XPA2	10465	14-1	1600	Tue	00170 00204 01429 ... 63471 29787 47417	MFSK-16/20Bd	(AB-RUS)
XPA2	9165	14-1	1620	Tue	00170 00204 01429 ... 63471 29787 47417	MFSK-16/20Bd	(AB-RUS)
XPA2	8065	14-1	1640	Tue	00170 00204 01429 ... 63471 29787 47417	MFSK-16/20Bd	(AB-RUS)
XPA2	11493	15-1	0800	Wed	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB)
XPA2	13393	15-1	0820	Wed	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB)
XPA2	13993	15-1	0840	Wed	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB)
XPA2	14977	15-1	0910	Wed	07268 00120 25970 ... 07547 61405 65666	MFSK-16/20Bd	(AB)
XPA2	13971	15-1	0930	Wed	07268 00120 25970 ... 07547 61405 65666	MFSK-16/20Bd	(AB)

XPA2	13371	15-1	0950	Wed	07268 00120 25970 ... 07547 61405 65666	MFSK-16/20Bd	(AB)
XPA2	10726	15-1	1200	Wed	00164 00216 56655 ... 79661 88836 10177	MFSK-16/20Bd	(AB)
XPA2	11426	15-1	1220	Wed	00164 00216 56655 ... 79661 88836 10177	MFSK-16/20Bd	(AB)
XPA2	12226	15-1	1240	Wed	00164 00216 56655 ... 79661 88836 10177	MFSK-16/20Bd	(AB)
XPA2	14794	16-1	0910	Thu	08287 00120 87213 ... 40689 00440 36011	MFSK-16/20Bd	(AB)
XPA2	13994	16-1	0930	Thu	08287 00120 87213 ... 40689 00440 36011	MFSK-16/20Bd	(AB)
XPA2	12194	16-1	0950	Thu	08287 00120 87213 ... 40689 00440 36011	MFSK-16/20Bd	(AB)
XPA2	10465	16-1	1600	Thu	00170 00204 01429 ... 63471 29787 47417	MFSK-16/20Bd	(AB)
XPA2	9165	16-1	1620	Thu	00170 00204 01429 ... 63471 29787 47417	MFSK-16/20Bd	(AB)
XPA2	8065	16-1	1640	Thu	00170 00204 01429 ... 63471 29787 47417	MFSK-16/20Bd	(AB)
XPA2	10726	17-1	1200	Fri	00164 00216 56655 ... 79661 88836 10177	MFSK-16/20Bd	(AB)
XPA2	11426	17-1	1220	Fri	00164 00216 56655 ... 79661 88836 10177	MFSK-16/20Bd	(AB)
XPA2	12226	17-1	1240	Fri	00164 00216 56655 ... 79661 88836 10177	MFSK-16/20Bd	(AB)
XPA2	14794	18-1	0910	Sat	08287 00120 87213 ... 40689 00440 36011	MFSK-16/20Bd	(AB)
XPA2	13994	18-1	0930	Sat	08287 00120 87213 ... 40689 00440 36011	MFSK-16/20Bd	(AB)
XPA2	12194	18-1	0950	Sat	08287 00120 87213 ... 40689 00440 36011	MFSK-16/20Bd	(AB)
XPA2	9317	18-1	1600	Sat	08849 00162 10555 ... 73502 98613 21634	MFSK-16/20Bd	(AB/MPJ)
XPA2	8117	18-1	1620	Sat	08849 00162 10555 ... 73502 98613 21634	MFSK-16/20Bd	(AB/MPJ)
XPA2	7517	18-1	1640	Sat	08849 00162 10555 ... 73502 98613 21634	MFSK-16/20Bd	(AB/MPJ)
XPA2	10921	19-1	1200	Sun	08012 00156 66644 ... 73472 27762 10203	MFSK-16/20Bd	(AB)
XPA2	12221	19-1	1220	Sun	08012 00156 66644 ... 73472 27762 10203	MFSK-16/20Bd	(AB)
XPA2	13521	19-1	1240	Sun	08012 00156 66644 ... 73472 27762 10203	MFSK-16/20Bd	(AB)
XPA2	11493	20-1	0800	Mon	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB)
XPA2	13393	20-1	0820	Mon	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB)
XPA2	13993	20-1	0840	Mon	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB)
XPA2	14977	20-1	0910	Mon	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB)
XPA2	13971	20-1	0930	Mon	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB)
XPA2	13371	20-1	0950	Mon	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB)
XPA2	9317	20-1	1600	Mon	07832 00001 00000 36262	MFSK-16/20Bd	(AB)
XPA2	8117	20-1	1620	Mon	07832 00001 00000 36262	MFSK-16/20Bd	(AB)
XPA2	7517	20-1	1640	Mon	07832 00001 00000 36262	MFSK-16/20Bd	(AB)
XPA2	10921	21-1	1200	Tue	06612 00112 60693 ... 02863 21034 45673	MFSK-16/20Bd	(AB)
XPA2	12221	21-1	1220	Tue	06612 00112 60693 ... 02863 21034 45673	MFSK-16/20Bd	(AB)
XPA2	13521	21-1	1240	Tue	06612 00112 60693 ... 02863 21034 45673	MFSK-16/20Bd	(AB)
XPA2	10465	21-1	1600	Tue	02558 00001 00000 37657	MFSK-16/20Bd	(MPJ)
XPA2	9165	21-1	1620	Tue	02558 00001 00000 37657	MFSK-16/20Bd	(MPJ)
XPA2	8065	21-1	1640	Tue	02558 00001 00000 37657	MFSK-16/20Bd	(MPJ)
XPA2	11493	22-1	0800	Wed	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB)
XPA2	13393	22-1	0820	Wed	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB)
XPA2	13993	22-1	0840	Wed	06889 00118 82970 ... 82701 83986 30323	MFSK-16/20Bd	(AB)
XPA2	14977	22-1	0910	Wed	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB)
XPA2	13971	22-1	0930	Wed	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB)
XPA2	13371	22-1	0950	Wed	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB)
XPA2	10726	22-1	1200	Wed	09333 00188 48433 ... 07995 90392 02216	MFSK-16/20Bd	(AB)
XPA2	11426	22-1	1220	Wed	09333 00188 48433 ... 07995 90392 02216	MFSK-16/20Bd	(AB)
XPA2	12226	22-1	1240	Wed	09333 00188 48433 ... 07995 90392 02216	MFSK-16/20Bd	(AB)



XPA2	14794	23-1	0910	Thu	00112 00066 93827 ... 16251 97426 74364	MFSK-16/20Bd	(AB)
XPA2	13994	23-1	0930	Thu	00112 00066 93827 ... 16251 97426 74364	MFSK-16/20Bd	(AB)
XPA2	12194	23-1	0950	Thu	00112 00066 93827 ... 16251 97426 74364	MFSK-16/20Bd	(AB)
XPA2	10465	23-1	1600	Thu	04313 00001 00000 34255	MFSK-16/20Bd	(MPJ)
XPA2	9165	23-1	1620	Thu	04313 00001 00000 34255	MFSK-16/20Bd	(MPJ)
XPA2	8065	23-1	1640	Thu	04313 00001 00000 34255	MFSK-16/20Bd	(MPJ)
XPA2	10726	24-1	1200	Fri	09333 00188 48433 ... 07995 90392 02216	MFSK-16/20Bd	(AB)
XPA2	11426	24-1	1220	Fri	09333 00188 48433 ... 07995 90392 02216	MFSK-16/20Bd	(AB)
XPA2	12226	24-1	1240	Fri	09333 00188 48433 ... 07995 90392 02216	MFSK-16/20Bd	(AB)
XPA2	14794	25-1	0910	Sat	00112 00066 93827 ... 16251 97426 74364	MFSK-16/20Bd	(AB)
XPA2	13994	25-1	0930	Sat	00112 00066 93827 ... 16251 97426 74364	MFSK-16/20Bd	(AB)
XPA2	12194	25-1	0950	Sat	00112 00066 93827 ... 16251 97426 74364	MFSK-16/20Bd	(AB)
XPA2	9317	25-1	1600	Sat	03709 00001 00000 41253	MFSK-16/20Bd	(MPJ)
XPA2	8117	25-1	1620	Sat	03709 00001 00000 41253	MFSK-16/20Bd	(MPJ)
XPA2	7517	25-1	1640	Sat	03709 00001 00000 41253	MFSK-16/20Bd	(MPJ)
XPA2	10921	26-1	1200	Sun	06612 00112 60693 ... 02863 21034 45673	MFSK-16/20Bd	(MPJ)
XPA2	12221	26-1	1220	Sun	06612 00112 60693 ... 02863 21034 45673	MFSK-16/20Bd	(MPJ)
XPA2	13521	26-1	1240	Sun	06612 00112 60693 ... 02863 21034 45673	MFSK-16/20Bd	(MPJ)
XPA2	11493	27-1	0800	Mon	00173 00100 18237 ... 64560 79044 76511	MFSK-16/20Bd	(AB)
XPA2	13393	27-1	0820	Mon	00173 00100 18237 ... 64560 79044 76511	MFSK-16/20Bd	(AB)
XPA2	13993	27-1	0840	Mon	00173 00100 18237 ... 64560 79044 76511	MFSK-16/20Bd	(AB)
XPA2	14977	27-1	0910	Mon	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB)
XPA2	13971	27-1	0930	Mon	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB)
XPA2	13371	27-1	0950	Mon	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB)
XPA2	9317	27-1	1600	Mon	Message. Too weak to copy	MFSK-16/20Bd	(AB)
XPA2	8117	27-1	1620	Mon	Message. Too weak to copy	MFSK-16/20Bd	(AB)
XPA2	7517	27-1	1640	Mon	Message. Too weak to copy	MFSK-16/20Bd	(AB/GHn)
XPA2	10921	28-1	1200	Tue	00505 00082 09868 ... 63459 48482 60467	MFSK-16/20Bd	(AB)
XPA2	12221	28-1	1220	Tue	00505 00082 09868 ... 63459 48482 60467	MFSK-16/20Bd	(AB)
XPA2	13521	28-1	1240	Tue	00505 00082 09868 ... 63459 48482 60467	MFSK-16/20Bd	(AB)
XPA2	10465	28-1	1600	Tue	00190 00222 89574 ... 69886 64931 47136	MFSK-16/20Bd	(AB-FIN)
XPA2	9165	28-1	1620	Tue	00190 00222 89574 ... 69886 64931 47136	MFSK-16/20Bd	(AB-POL)
XPA2	8065	28-1	1640	Tue	00190 00222 89574 ... 69886 64931 47136	MFSK-16/20Bd	(AB-G)
XPA2	11493	29-1	0800	Wed	00173 00100 18237 ... 64560 79044 76511	MFSK-16/20Bd	(AB)
XPA2	13393	29-1	0820	Wed	00173 00100 18237 ... 64560 79044 76511	MFSK-16/20Bd	(AB)
XPA2	13993	29-1	0840	Wed	00173 00100 18237 ... 64560 79044 76511	MFSK-16/20Bd	(AB)
XPA2	14977	29-1	0910	Wed	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB/RL)
XPA2	13971	29-1	0930	Wed	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB/RL)
XPA2	13371	29-1	0950	Wed	07297 00086 68433 ... 94681 37682 50112	MFSK-16/20Bd	(AB/RL)
XPA2	10726	29-1	1200	Wed	08728 00064 49728 ... 35642 57115 61365	MFSK-16/20Bd	(AB/MPJ)
XPA2	11426	29-1	1220	Wed	08728 00064 49728 ... 35642 57115 61365	MFSK-16/20Bd	(AB/MPJ)
XPA2	12226	29-1	1240	Wed	08728 00064 49728 ... 35642 57115 61365	MFSK-16/20Bd	(AB/MPJ)
XPA2	14794	30-1	0910	Thu	07716 00001 00000 37660	MFSK-16/20Bd	(AB)
XPA2	13994	30-1	0930	Thu	07716 00001 00000 37660	MFSK-16/20Bd	(AB)
XPA2	12194	30-1	0950	Thu	07716 00001 00000 37660	MFSK-16/20Bd	(AB)
XPA2	10465	30-1	1600	Thu	00190 00222 89574 ... 69886 64931 47136	MFSK-16/20Bd	(AB-G)

XPA2	9165	30-1	1620	Thu	00190 00222 89574 ... 69886 64931 47136	MFSK-16/20Bd	(AB-G)
XPA2	8065	30-1	1640	Thu	00190 00222 89574 ... 69886 64931 47136	MFSK-16/20Bd	(AB-G)
XPA2	10726	31-1	1200	Fri	08728 00064 49728 ... 35642 57115 61365	MFSK-16/20Bd	(AB)
XPA2	11426	31-1	1220	Fri	08728 00064 49728 ... 35642 57115 61365	MFSK-16/20Bd	(AB)
XPA2	12226	31-1	1240	Fri	08728 00064 49728 ... 35642 57115 61365	MFSK-16/20Bd	(AB)
XPB1	14769	4-1	1100	Sat	Russian intel.	MFSK-16	(AB)
XPB1	14369	4-1	1110	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13969	4-1	1120	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13369	4-1	1130	Sat	Russian intel.	MFSK-16	(AB)
XPB1	12169	4-1	1140	Sat	Russian intel.	MFSK-16	(AB)
XPB1	11169	4-1	1150	Sat	Russian intel.	MFSK-16	(AB)
XPB1	7771	5-1	2000	Sun	Russian intel.	MFSK-16	(AB/HFD-RUS)
XPB1	7471	5-1	2010	Sun	Russian intel.	MFSK-16	(AB/HFD-RUS)
XPB1	6771	5-1	2020	Sun	Russian intel.	MFSK-16	(AB/HFD-RUS)
XPB1	5771	5-1	2030	Sun	Russian intel.	MFSK-16	(AB/HFD)
XPB1	5771	5-1	2030	Sun	msg	MFSK-16	(HFD)
XPB1	5171	5-1	2040	Sun	msg	MFSK-16	(HFD)
XPB1	4771	5-1	2050	Sun	msg	MFSK-16	(HFD)
XPB1	14769	6-1	1100	Mon	msg	MFSK-16	(HFD)
XPB1	14369	6-1	1110	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	13969	6-1	1120	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	13369	6-1	1130	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	12169	6-1	1140	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	11169	6-1	1150	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	7771	7-1	2000	Tue	Russian intel.	MFSK-16	(AB)
XPB1	7471	7-1	2010	Tue	Russian intel.	MFSK-16	(AB)
XPB1	6771	7-1	2020	Tue	Russian intel.	MFSK-16	(AB)
XPB1	5771	7-1	2030	Tue	Russian intel.	MFSK-16	(AB)
XPB1	5171	7-1	2040	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4771	7-1	2050	Tue	Russian intel.	MFSK-16	(AB)
XPB1	14769	11-1	1100	Sat	Russian intel.	MFSK-16	(AB)
XPB1	14369	11-1	1110	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13969	11-1	1120	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13369	11-1	1130	Sat	Russian intel.	MFSK-16	(AB)
XPB1	12169	11-1	1140	Sat	Russian intel.	MFSK-16	(AB)
XPB1	11169	11-1	1150	Sat	Russian intel.	MFSK-16	(AB)
XPB1	7771	12-1	2000	Sun	Russian intel.	MFSK-16	(AB)
XPB1	7471	12-1	2010	Sun	Russian intel.	MFSK-16	(AB)
XPB1	6771	12-1	2020	Sun	Russian intel.	MFSK-16	(AB)
XPB1	5771	12-1	2030	Sun	Russian intel.	MFSK-16	(AB)
XPB1	5171	12-1	2040	Sun	Russian intel.	MFSK-16	(AB)
XPB1	4771	12-1	2050	Sun	Russian intel.	MFSK-16	(AB)
XPB1	14769	13-1	1100	Mon	Russian intel.	MFSK-16	(AB)
XPB1	14369	13-1	1110	Mon	Russian intel.	MFSK-16	(AB)
XPB1	13969	13-1	1120	Mon	Russian intel.	MFSK-16	(AB)
XPB1	13369	13-1	1130	Mon	Russian intel.	MFSK-16	(AB/RL)

XPB1	12169	13-1	1140	Mon	Russian intel.	MFSK-16	(AB/RL)
XPB1	11169	13-1	1150	Mon	Russian intel.	MFSK-16	(AB)
XPB1	7771	14-1	2000	Tue	Russian intel.	MFSK-16	(AB)
XPB1	7471	14-1	2010	Tue	Russian intel.	MFSK-16	(AB)
XPB1	6771	14-1	2020	Tue	Russian intel.	MFSK-16	(AB)
XPB1	5771	14-1	2030	Tue	Russian intel.	MFSK-16	(AB)
XPB1	5171	14-1	2040	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4771	14-1	2050	Tue	Russian intel.	MFSK-16	(AB)
XPB1	14769	18-1	1100	Sat	Russian intel.	MFSK-16	(AB)
XPB1	14369	18-1	1110	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13969	18-1	1120	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13369	18-1	1130	Sat	Russian intel.	MFSK-16	(AB)
XPB1	12169	18-1	1140	Sat	Russian intel.	MFSK-16	(AB)
XPB1	11169	18-1	1150	Sat	Russian intel.	MFSK-16	(AB)
XPB1	7771	19-1	2000	Sun	Russian intel.	MFSK-16	(AB)
XPB1	7471	19-1	2010	Sun	Russian intel.	MFSK-16	(AB)
XPB1	6771	19-1	2020	Sun	Russian intel.	MFSK-16	(AB)
XPB1	5771	19-1	2030	Sun	Russian intel.	MFSK-16	(AB)
XPB1	5171	19-1	2040	Sun	Russian intel.	MFSK-16	(AB)
XPB1	4771	19-1	2050	Sun	Russian intel.	MFSK-16	(AB)
XPB1	14769	20-1	1100	Mon	Russian intel.	MFSK-16	(AB)
XPB1	14369	20-1	1110	Mon	Russian intel.	MFSK-16	(AB)
XPB1	13969	20-1	1120	Mon	Russian intel.	MFSK-16	(AB)
XPB1	13369	20-1	1130	Mon	Russian intel.	MFSK-16	(AB)
XPB1	12169	20-1	1140	Mon	Russian intel.	MFSK-16	(AB)
XPB1	11169	20-1	1150	Mon	Russian intel.	MFSK-16	(AB)
XPB1	7771	21-1	2000	Tue	Russian intel.	MFSK-16	(AB)
XPB1	7471	21-1	2010	Tue	Russian intel.	MFSK-16	(AB)
XPB1	6771	21-1	2020	Tue	Russian intel.	MFSK-16	(AB)
XPB1	5771	21-1	2030	Tue	Russian intel.	MFSK-16	(AB)
XPB1	5171	21-1	2040	Tue	Russian intel.	MFSK-16	(AB)
XPB1	4771	21-1	2050	Tue	Russian intel.	MFSK-16	(AB)
XPB1	14769	25-1	1100	Sat	Russian intel.	MFSK-16	(AB)
XPB1	14369	25-1	1110	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13969	25-1	1120	Sat	Russian intel.	MFSK-16	(AB)
XPB1	13369	25-1	1130	Sat	Russian intel.	MFSK-16	(AB)
XPB1	12169	25-1	1140	Sat	Russian intel.	MFSK-16	(AB)
XPB1	11169	25-1	1150	Sat	Russian intel.	MFSK-16	(AB)
XPB1	7771	26-1	2000	Sun	Russian intel.	MFSK-16	(AB)
XPB1	7471	26-1	2010	Sun	Russian intel.	MFSK-16	(AB)
XPB1	6771	26-1	2020	Sun	Russian intel.	MFSK-16	(AB)
XPB1	5771	26-1	2030	Sun	Russian intel.	MFSK-16	(AB)
XPB1	5171	26-1	2040	Sun	Russian intel.	MFSK-16	(AB)
XPB1	4771	26-1	2050	Sun	Russian intel.	MFSK-16	(AB)
XPB1	14769	27-1	1100	Mon	Russian intel.	MFSK-16	(AB)
XPB1	14369	27-1	1110	Mon	Russian intel.	MFSK-16	(AB)

<b>XPB1</b>	13969	27-1	1120	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	13369	27-1	1130	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	12169	27-1	1140	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	11169	27-1	1150	Mon	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	7771	28-1	2000	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	7471	28-1	2010	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	6771	28-1	2020	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	5771	28-1	2030	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	5171	28-1	2040	Tue	Russian intel.	MFSK-16	(AB)
<b>XPB1</b>	4771	28-1	2050	Tue	Russian intel.	MFSK-16	(AB)
<b>XSL</b>	8703.5	29-1	1334	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
<b>XSL</b>	8588	29-1	1334	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
<b>XSL</b>	8313	29-1	1334	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
<b>XSL</b>	6445	29-1	1334	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
<b>XSL</b>	6417	29-1	1334	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
<b>XSL</b>	6250	29-1	1334	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
<b>XSL</b>	4291	29-1	1334	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
<b>XSL</b>	4231.5	29-1	1334	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)
<b>XSL</b>	4153	29-1	1334	Wed	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-J)

## CONTRIBUTORS

AB	Ary Boender, Netherlands
AB-AUT	Ary Boender via remote rx Austria
AB-BLR	Ary Boender via remote rx Belarus
AB-FIN	Ary Boender via remote rx Finland
AB-G	Ary Boender via remote rx UK
AB-J	Ary Boender via remote rx Japan
AB-KOR	Ary Boender via remote rx South Korea
AB-KWT	Ary Boender via remote rx Kuwait
AB-POL	Ary Boender via remote rx Poland
AB-RUS	Ary Boender via remote rx Russia
Arg	Argonn, Poland
BL	Brad Low, TX, USA
BW3	Barry Williams, AL, USA
Dan	Daniel LU5EMM, Argentina
Danix	Danix, Poland
Danix-USA	Danix via remote rx USA
DK2OM	Wolf Hadel, D
ES	Edward Smith, UK
ES-HOL	Edward Smith via remote rx Netherlands
ES-POL	Edward Smith via remote rx Poland
ES-RUS	Edward Smith via remote rx Russia
EW	Eddy Waters, Australia
F5JBR	F5JBR André, France
F5JBR-CHN	F5JBR via remote rx China
F5JBR-J	F5JBR André via remote rx Japan
F5JBR-S	F5JBR André via remote rx Sweden
GHn	Gary Hagermann, UK
Gwr	Gwraspe (via Priyom)
HFD	Hans-Friedrich Dumrese, Germany
HFD-J	Hans-Friedrich Dumrese via remote rx Japan
HFD-RUS	Hans-Friedrich Dumrese via remote rx Russia
HFD-USA	Hans-Friedrich Dumrese via remote rx USA
HK	Hiroyuki Komatsubara, Japan
JPL	JPL, NB, Canada (and various remote rx)
JPL-CHN	JPL via remote rx China
JPL-HK	JPL via remote rx Hong Kong
JU	Jay Updike, W. Europe
MPJ	Jim, SW England
MPJ-FIN	Jim via remote rx Finland
MPJ-HNG	Jim via remote rx Hungary
MPJ-POL	Jim via remote rx Poland
MPJ-RUS	Jim via remote rx Russia
MPJ-UKR	Jim via remote rx Ukraine
Phi-CHN	Philby via remote rx China
RL	Roberto Landolpho, Brazil
RL-HOL	Landolpho via remote rx Netherlands
RL-USA	Roberto Landolpho via remote rx USA
RR2	Rich Ray, IL, USA
SP1	Sylvain, France

---

"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.

All information in this newsletter was submitted by independent radio monitors or has been obtained from public available sources and public sites on the web. Wherever data was obtained via the web or elsewhere, references and/or links to these sources have been noted.

Google Earth images: Copyright © Google

Portions of this newsletter may be used in electronic or printed hobby bulletins without prior approval so long as "Numbers & Oddities" is credited as the source. This newsletter may NOT be utilized, partly or wholly, in any other COMMERCIAL media format without the written permission of the Editor. Any breach of this may result in action under international copyright legislation.

**Relevant mailing lists and websites:**

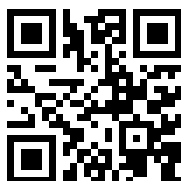
- NUMBERS & ODDITIES** <http://www.numbersoddities.nl>
- SPY NUMBERS ONLINE DATABASE** <http://www.spynumbers.com/numbersDB>
- UDXF - UTILITY DXERS FORUM** <http://www.udxf.nl>
- HF UNDERGROUND** <http://www.hfunderground.com/board/>
- PRİYOM** <http://priyom.org/>
- ENIGMA** <http://www.signalshed.com/>

To become an UDXF member go to <https://groups.io/g/UDXF> and follow the instructions.

To become a Spooks member go to <http://mailman.qth.net/mailman/listinfo/spooks> fill in the form and follow the instructions that will be mailed to you.



N&O



UDXF

