

670	27364	92836	09428	61208	74982	36498	32764	81276	01
986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	76
723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
591	87364	87265	96710	27630	12673	84769	28743	98127	59
58	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43286	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
76	87698	69876	87698	69876	87612	12341	34867	86798	632
867	43298	65656	56756	56123	32143	14321	32143	14321	321
71	02787	58765	76587	58765	76587	58765	76587	58756	765
75475	26547	54365	36543	54365	36543	54365	36543	54365	543

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #221, February 2016

Editor: Ary Boender email: udxf@udxf.nl

Numbers & Oddities <http://www.numbersoddities.nl>

"Numbers & Oddities" a.k.a. the "Spooks Newsletter" is a newsletter for the members of the Utility DXers Forum (UDXF), the Spooks mailing list, HF Underground and everyone else who is interested in Numbers Stations.

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.

Designators

Enigma released a revised station list. It includes the new designators that were assigned since the last list was issued a couple of years ago. It now also shows the N&O and Priyom designators. One change should be mentioned here: M01c is deleted and is now part of the M01a designator.

N&O assigned designator VR01 to the unid Russian station that sends coded messages since at least 2014.

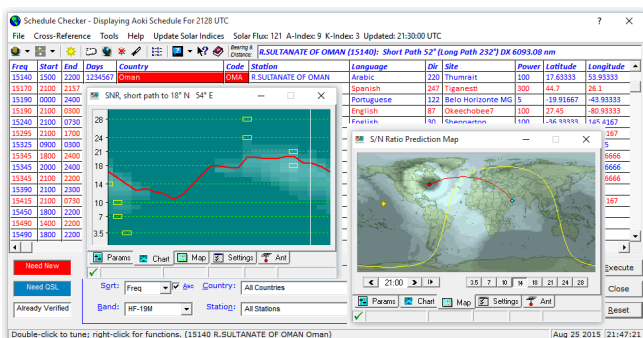
Profiles and fact sheets

Many profiles and fact sheets on the N&O and UDXF websites have been updated or will be updated in the next few weeks, including the various Chinese documents. Most of the Chinese documents were integrated in a new fact sheet called "Chinese Military Nets" including M89, M95, MC03, V26, VC01, VC03 and Q26. The other Chinese numbers stations are still in a separate document called "Chinese Stations".

Logging software

A new version of the DXtreme Reception Log X software has been released recently.

Check their website <http://www.dxtreme.com/>



The screenshot shows the 'Schedule Checker - Displaying Aoki Schedule For 1214 UTC' window. It features a table of stations with columns for Freq, Start, End, Days, Country, Code, Station, Language, SW, Site, Power, Latitude, and Longitude. The table lists various stations from different countries, including China, France, and India.

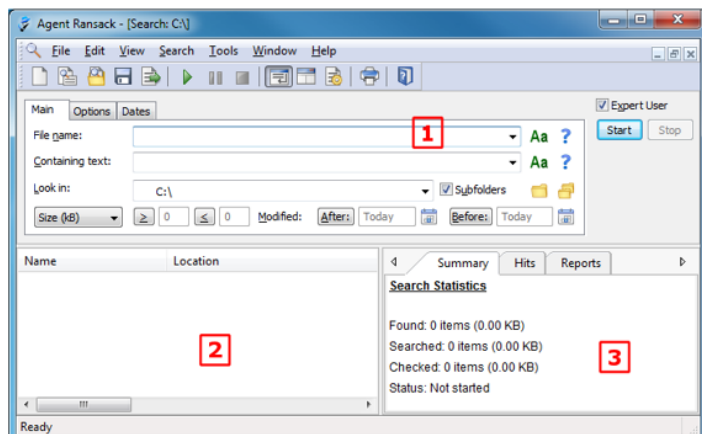
Freq	Start	End	Days	Country	Code	Station	Language	SW	Site	Power	Latitude	Longitude
17630	1200	1200	1200	China	CHN	CHINA RADIO INTERNATIONAL	English	500	Yishi-Salagin	45.98333	97.5	-14.38333
17640	1200	1200	1200	Ascension I.	ASC	BBC	French	27	Ascension	3.9	-14.38333	
17640	1200	1200	1200	United Arab Emirates	UAE	BBC	French	275	Dhabayya	24.18667	54.25	
17660	1200	1200	1200	Madagascar	MDG	R.FRANCE INT.	French	305	Talata-Volondry	-18.71667	47.61666	
17680	1200	1200	1200	Philippines	PHI	VOICE OF AMERICA	Burmese	215	Tinang	15.55	120.6167	
17690	1130	1200	1200	Kuwait	KWT	R.AZADI (R.Free Afghanistan)	Persian	80	Kuwait	29.52667	47.68333	
17700	1150	1200	1200	Iran	IRN	VO ISLAMIC REP/IRAN	Chinese	65	Sirjan	29.45	55.68333	
17705	1145	1200	1200	India	IND	ALL INDIA RADIO	Chinese	58	Bengaluru	13.29333	77.21667	
17705	1155	1455	1200	Saudi Arabia	SAU	R.SAUDI	Arabic	310	Riyadh	24.5	46.38334	
17715	1150	1200	1200	Iran	IRN	VO ISLAMIC REP/IRAN	Chinese	64	Kamatabad	35.78667	51.45	
17745	1130	1200	1200	South Africa	AFS	BBC	Somali	32	Meyerton	-26.58333	28.13333	
17760	1200	1227	1200	Romania	ROU	R.ROMANIA INT.	Arabic	248	Tigianest	44.7	26.1	
17780	1130	1400	1200	Ascension I.	ASC	BBC	Hausa	65	Ascension	3.9	-14.38333	
17810	1200	1200	1200	Pakistan	PAK	R.PAKISTAN	Chinese	70	Islamabad APT-5	33.45	73.2	
17830	1200	1200	1200	Austria	AUT	BBC	French	225	Moonstrum	48.01667	16.43333	

Agent Ransack / File Locator Lite

I often search for text, frequencies, callsigns, etc. in a large amount of text files. Before I found Agent Ransack this was a time consuming job. Agent Ransack, also known as File Locator Lite is the free version of Mythicsoft's File Locator Pro. A powerful software program for finding files and text on your PC or network drives. Found text is shown with highlighted keywords. You can download the program from <https://www.mythicsoft.com/agentransack> and don't forget to register it.

Below a short description of the program's basic functions.

The interface looks like this:



If Expert User has been checked (the default) you will see the Advanced Interface otherwise you will see the Basic Interface. The interface is broken up into three main sections:

- 1 Criteria view, used to enter search criteria..
- 2 File list view, displays files found during search.
- 3 Contents view, displays various information about the search and the found files currently selected in File List view.

As files are found they appear in the File list view. When searching through the contents of the files the lines found can be viewed by selecting one or more of the found files. The lines found are then displayed in the Contents view for each selected file.

To export the results of the current search select the "File->Export Results" menu option. The Export Results dialog allows the results to be saved either to the clipboard or to a specified file. The results can be saved in a variety of formats including Text, Comma Separated (CSV), and Tab separated.

VOICE STATIONS



E06

4760 kHz, 05-02, 2130 UTC

472 613 20

14259 22676 32782 32782 76723 89409 12215 74326 64070 90235
38085 59543 12319 74238 36664 12256 18841 73311 98089 12250
613 20 00000

8167 kHz, 24-02, 1730 UTC

801 269 53

23984 51833 37184 07381 65157 60863 62914 62665 93391 54374
58471 11993 55461 30469 10531 44580 51627 36317 59313 58377
30889 88193 17520 48514 01974 70132 82343 61076 70970 65874
13972 79404 41570 03812 79042 35098 38838 19600 82470 60916
42461 66138 36098 27757 40402 25603 37590 32909 38905 03212
58028 31760 89782
269 53 00000



E07a

6911 kHz, 04-02, 0610 UTC

189 189 189 1 16663 5808 77 5808 77

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

11053/12153/13553 kHz, 13-02, 0900/0920/0940 UTC

015 015 015 1 61714 7921 55 7921 55

47319 90249 04242 22029 40399 75363 15394 46985 83854 59057
00074 28061 27527 77526 58187 37602 08266 30319 33467 45890
40514 23132 38115 70206 44754 88115 29143 83271 95665 64302
79827 42690 79622 55360 41799 81106 55107 72137 37567 00191
82622 20327 25134 27220 62390 81085 90714 43894 60386 18215
37732 37453 58345 51491 53083
000 000

9347/8147/6847 kHz, 26-02, 1610/1630/1650 UTC

318 318 318 1 10197 7285 71 7285 71
05645 77079 11816 55429 64845 55317 01287 76121 52659 72479
79158 00308 10721 36515 84245 01042 84215 14206 61691 34436
07585 42096 06235 36990 35159 32325 08552 22078 38013 18789
50467 42384 69172 36645 36979 67088 47565 64744 54184 10567
49146 44755 93826 26572 75841 94346 21428 33451 90632 47678
08090 08099 87014 79552 96164 78163 92497 84355 97033 43093
45579 87837 79804 73719 10257 86770 14917 38608 42012 05435
93770
000 000

11053/12153/13553 kHz, 27-02, 0900/0920/0940 UTC

015 015 015 1 10197 7285 71 7285 71
05645 77079 11816 55429 64845 55317 01287 76121 52659 72479
79158 00308 10721 36515 84245 01042 84215 14206 61691 34436
07585 42096 06235 36990 35159 32325 08552 22078 38013 18789
50467 42384 69172 36645 36979 67088 47565 64744 54184 10567
49146 44755 93826 26572 75841 94346 21428 33451 90632 47678
08090 08099 87014 79552 96164 78163 92497 84355 97033 43093
45579 87837 79804 73719 10257 86770 14917 38608 42012 05435
93770
000 000



E11a

9446 kHz, 01-02/05-02, 0830 UTC

641/36 Attention
24345 07185 99012 08498 86931 78788 93908 16392 59363 96629
69826 32301 95371 63197 37528 66283 72315 35600 59872 12742
74677 39150 50942 36703 84843 40983 95857 80314 48603 32623
11308 75766 35563 17567 75566 44700
Attention, rpt msg, out

9446 kHz, 01-02/03-02, 0900 UTC

537/32 Attention
53131 47998 60937 35486 17063 42126 47623 22234 65887 51480
14603 50862 43545 36699 17999 99636 53049 63095 36404 97907
81787 78112 24509 99358 72647 23014 71689 96982 02301 55660
83294 50595
Attention, rpt msg, out

16112 kHz, 02-02/04-02, 0745 UTC

335/36 Attention
35050 82983 64300 21252 33438 47718 76821 17965 02836 67601
45809 26558 48577 60373 08345 75256 62432 82023 82013 61995
65720 59884 11394 37421 44470 69957 12174 48970 35705 53574
81816 18492 54741 92513 75448 36349
Attention, rpt msg, out

9443 kHz, 06-02, 1705 UTC

394/39 Attention

35259 17199 13723 52703 83930 80851 68722 67777 30268 92840
48478 65376 24945 24620 82594 58166 04861 92981 91008 72783
77130 85536 64756 47641 88514 04948 60558 09992 03561 91311
39481 61834 35357 84508 72569 84662 15893 95534 80671

Attention, rpt msg, out

10429 kHz, 07-02, 0805 UTC

313/36 Attention

07803 32968 85801 39172 43831 45887 36233 38147 89474 40169
59961 10195 09916 87049 22309 75368 45032 11256 97911 87771
56625 22831 39401 91609 95885 30174 88040 36409 52770 65493
93060 66315 09589 76113 61994 94866

Attention, rpt msg, out

13046 kHz, 08-02, 0600 UTC

185/35 Attention

15028 77113 80977 59779 30679 53923 59744 24348 42925 77450
46533 66028 60850 26054 50924 59701 75909 01905 56004 40798
93451 61129 53494 09082 83291 91105 53613 50862 01541 26047
88632 44283 14334 14813 74227

Attention, rpt msg, out

7840 kHz, 09-02/11-02, 0645 UTC

512/34 Attention

57878 98480 10730 30281 28276 21317 43194 87313 36602 84903
16230 89175 42147 93120 79348 01763 84357 91915 20981 39758
82552 04221 44109 33469 34285 21276 65840 74832 03122 39892
16310 13141 22748 38084

Attention, rpt msg, out

6940 kHz, 15-02/18-02, 0820 UTC

432/30 Attention

65981 70039 94983 34536 20650 04906 28911 34997 22469 74862
30772 35799 74053 48383 95568 61970 18539 31396 58704 59736
10529 40797 37919 69788 80969 38178 96985 04633 72378 64721

Attention, rpt msg, out

7984 kHz, 17-02, 1205 UTC

464/34 Attention

60978 51045 30277 45872 59909 37898 91458 07838 39257 00771
10886 12855 08773 62933 48860 62790 00554 24337 24057 77924
36386 74430 28051 20376 76247 03314 61717 45957 11801 30845
15755 91772 17878 07065

Attention, rpt msg, out

16112 kHz, 19-02, 0730 UTC

358/36 Attention

60420 58210 90787 38352 94941 36681 94432 82526 59484 00925
79222 02802 52285 68753 03861 12178 38425 28991 95889 83042
95327 25821 20543 25235 49548 51848 70509 85231 46859 44695
76394 69670 73688 10896 33432 86962

Attention, rpt msg, out

10448 kHz, 21-02, 1625 UTC

976/40 Attention

47883 33777 74722 67109 99494 30896 48455 82361 25607 93316
06052 71149 56913 83342 64349 20242 52461 24549 75270 78904
98159 18845 66810 78640 65306 60820 70786 11016 71166 06148
29991 78000 20825 25076 24621 93045 81039 88950 64828 71560

Attention, rpt msg, out

8196 kHz, 23-02/25-02, 1450 UTC

449/33 Attention

03207 92960 35572 72269 13144 47398 44976 66043 96089 14130
37871 49016 90965 69688 32505 09702 36570 35380 30946 00358
98339 15552 33103 98327 11987 34944 62876 56861 89271 25327
09476 10678 17396

Attention, rpt msg, out

5082 kHz, 25-02, 1730 UTC

413/39 Attention

24786 05660 70172 72733 19232 26078 42858 99075 53802 85243
71500 08548 17253 45553 33373 69940 69065 07682 40197 94846
85768 70361 14672 87249 01386 92699 82265 76406 30873 59477
74917 84793 18321 94398 78969 17322 68706 49603 21929

Attention, rpt msg, out

10800 kHz, 26-02, 0710 UTC

637/36 Attention

59074 48802 51192 21331 62945 17662 18668 38849 96650 93477
42524 02174 68374 02245 97936 42262 34973 89218 36754 60527
21280 22966 69765 48425 10571 50231 50297 25933 72261 11043
31350 98481 86415 94206 43152 03579

Attention, rpt msg, out

4505 kHz, 28-02, 1605 UTC

233/37 Attention

17505 41547 42015 49367 05149 93649 27458 25899 04208 07582
10494 92692 41660 11280 54021 12250 40235 22870 23854 55248
86222 82898 93993 36420 28425 27379 23194 33601 69369 31850
32089 15628 65233 61209 99564 18967 22540

Attention, rpt msg, out



E17z

11170/9820 kHz, 11-02, 0800/0810 UTC

674 205 8 61732 74537 57440 10597 23521 47660 92883 69901 205 8 00000

11170/9820 kHz, 18-02, 0800/0810 UTC

674 289 5 38034 37823 38230 48235 38702 289 5 00000

11170/9820 kHz, 25-02, 0800/0810 UTC

674 289 5 38034 37823 38230 48235 38702 289 5 00000



E25 / E25a

Freq	Date	UTC	Details
6140	21-2	0940	ID 350. 5176 4960 2021 7415 5074 4033 2318 8546 9537 7295 5553 4960 Rebeat (x3) 5176 4960 2021 7415 5... Restarts. Windows 7 sound during the transmission. No music intro used.
6140	23-2	1117	No callup, right into message 6211 Rebeat (3x) 6211 3001 2599 ??69 6365 ???? ?756 7792 2067 6211 EOM EOT. Then calls 880 889, which is later corrected as 889. No message.
6140	24-2	0900	ID 111 Message (3x) 6311 0570 2060 0055 6935 0570 REBEAT (3X) 6311. aBRUPT END
6140	24-2	0915	ID 950 Message (3x) 2011 7541 1911 0424 3728 8080 9329. Restarts 950 Message (3x) 2011 7541 1911 0424 3728 8080 9329 2554 1021 9366 1911 Rebeat (3x) then ends without the repeat. No intro tune used.
9450	25-2	1210	Enta Omri then 830 20 (R) EOM 8 EOT. Started on 9450.35, then shifted to 9450 kHz
9550	28-2	0900	Test transmission. Off at 0910z
9600	25-2	1210	Test at the same time as the normal transmission on 9450 kHz. The station must be using at least two transmitters.
9600	27-2	1215	Transmitter test. At 1223z, transmitter starts failing and bad AM modulation starts. Transmitter off at 1230z.
9450	25-2	1210	Enta Omri then 830 20 (R) EOM 8 EOT. Started on 9450.35, then shifted to 9450 kHz

Contributor QSR177 writes:

E25 has been really active in the second part of the month. Also, the station now uses a windows 7 computer, as a windows 7 sound could be heard in a transmission. This can explain those live messages back in January as hardware replacement time.

Transmission with windows 7 sound:

https://mega.nz/#!j8pHwYAR!O016As!72YNmLNmRHR8G1ZVEWwS_eoZB2IQo7Y1zqK4

Test transmission with bad AM modulation (partial recording):

https://mega.nz/#!D4gCDQSL!JNefrZQFszXnTXLa0mXR2MIN_HTpGvtLeJ_rXo5NVw4



G06

4519 kHz, 11-02, 1830 UTC

271 613 15

14259 22676 32782 32782 76723 69429 12235 74326 64272 92235

38285 59543 12319 74238 36664

613 15 00000

4792 kHz, 12-02, 1930 UTC

436 701 20

37839 35787 98273 60187 16202 95625 31691 52538 61025 22567

93296 67423 40968 16891 63781 34820 04842 60491 75924 04594

701 20 00000

4519 kHz, 25-02, 1829 UTC

271 613 15

14259 22676 32782 32782 76723 89409 12215 74326 64070 90235

38085 59543 12319 74238 36664

613 15 00000



S06

15614 kHz, 12-02, 0930 UTC

842 906 42

56704 76689 70507 58008 57304 36504 39879 87503 73734 42223
80359 19559 33359 92462 68997 34221 85414 53399 11645 10623
49951 22234 54055 51241 82893 71236 95820 20325 11893 45776
74327 32406 22682 14816 10911 51861 00590 97260 36417 89433
56929 12648
906 42 00000

8187 kHz, 16-02, 1700 UTC

480 567 42

85415 05660 12561 99127 26660 43262 00411 46085 73746 95785
34200 61430 27548 96964 43742 38222 82233 19822 36036 44229
96640 58228 64164 97053 71641 44441 06586 08875 20979 70370
05853 69226 10439 27337 32993 35938 53868 48569 32626 22126
84886 91515
567 42 00000



S11a

7504 kHz, 09-02/12-02, 0915 UTC

481/32 Vnimanije

14279 78104 72406 93170 08119 63711 99766 46815 18234 33651
79714 39865 59567 99121 82056 40276 44186 00447 72820 81482
96907 95562 80764 57891 95872 51702 77969 25461 11841 63597
11422 23147

Vnimanie, rpt msg, konets

9200 kHz, 13-02, 1625 UTC

839/38 Vnimanije

72918 21727 68585 19484 87859 76380 85745 44587 15946 02614
84436 03574 26506 80191 97552 58945 09432 01667 90575 49378
66039 97246 57486 22073 50254 74799 35153 15741 86238 27609
27195 79603 63638 70430 56898 35534 04258 85477

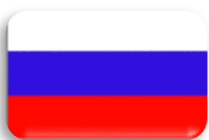
Vnimanie, rpt msg, konets



S28 - The Buzzer

Mode: USB
Frequency: 4625//6899 kHz

Date	UTC	Details
1-2	0922	ZhUOZ 52631 SIRYeNNYJ 01588560
1-2	0925	ZhUOZ 66654 KIRASIR 20491013
1-2	1259	ZhUOZ 76102 VIRALA 32710473
1-2	1409	ZhUOZ 10253 LIPUNYeC 57087747
2-2	0659	ZhUOZ ANTROPOLOG 1230 Female voice in the background
3-2	1659	ZhUOZ BARKOBAS 3362
3-2	1716	Buzzer channel marker //4625 kHz
4-2	0601	ZhUOZ BLINOLOR 4188
8-2	0757	ZhUOZ 65801 YeDINYeNIYe 75855607
8-2	0832	ZhUOZ 80003 TYeVYeRON 78876840
8-2	0930	ZhUOZ 49674 ShiNNYJ 80354167
10-2	0904	ZhUOZ radio check 43211334
10-2	0915	ZhUOZ 09218 MOTOROLLYeR 57944873
10-2	1214	ZhUOZ 52448 VAKUOL' 76146463
11-2	0352	ZhUOZ 75836 ARYeNA 54614239 female voice on background
11-2	0407	ZhUOZ 44473 RAZDYeLYeN'Ye 33975092 error in second read (sboj)
11-2	0431	ZhUOZ 65101 VARIKOZNYJ 76729016
11-2	1041	ZhUOZ 77833 PROTOChNYJ 62273999
15-2	0747	ZhUOZ 20943 DAL'NOST' 63732890 Female voice on background
15-2	0819	ZhUOZ 41355 VASKOPUL 96890875
15-2	0930	ZhUOZ 65699 ZAH0ZhiJ 90332344
15-2	0937	ZhUOZ 40840 KRAH 83460548
17-2	1529	ZhUOZ KLINOPLOT 2068
17-2	1530	ZhUOZ KLINOPLOT 2068 The same message is read to another network with urgency category "Vozduh".
17-2	1532	ZhUOZ KORYaVYJ 4900
18-2	0559	ZhUOZ KLOPODOZh 1359
18-2	1005	ZhUOZ 99292 V'YuChNYJ 13620115
18-2	1342	Multiple test counts
29-2	0837	ZhUOZ 03289 IZVILINA 15451653
29-2	1258	ZhUOZ 30223 GRUZhT' 90518749
29-2	1305	ZhUOZ 23420 KORRYeLYaTOR 30893316
3-2	1716	Buzzer channel marker //4625 kHz
29-2	0912	ZhUOZ 14386 BYeLORYeK 00515373 Female voice on background, very low quality voice



S30 - The Pip

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

Freq	Date	UTC	Details
3756	1-2	0350	ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ
3756	1-2	1344	KZI' TShchShchs VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27
3756	1-2	1418	8S1Shch 43756 NAPADAYuShchIJ 38285795
3756	1-2	1758	V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV
3756	2-2	0410	DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V
3756	2-2	1833	ShchGJP TZLM FY5E F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3

Freq	Date	UTC	Details
3756	3-2	0402	AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 error in reading
3756	3-2	0431	8S1Shch VZOROGRAF 2445 BANTORAJ 6738
3756	3-2	1714	8S1Shch ZhLOBOKROT 0871
3756	3-2	1716	Pip channel marker
3756	3-2	1839	61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM
3756	4-2	0318	8S1Shch L'YeZhOLYeYeR 4279
3756	4-2	0447	6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ
3756	4-2	1453	8S1Shch 08268 11339 17932 MYL'NICA 93408629
3756	4-2	1713	8S1Shch MYeChOTRYeP 9629
3756	4-2	1829	TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N
3756	5-2	0553	37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C
3756	6-2	0519	NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU
3756	7-2	1434	YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ
3756	8-2	1724	OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV
3756	8-2	1844	12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T
3756	10-2	0338	81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL BO6C
3756	11-2	0343	8S1Shch 68456 GRACONYeRV 14612221
3756	11-2	0403	8S1Shch 42682 MINOTAVR 71729057
3756	11-2	0410	8S1Shch 00679 GAL'VANYeR 48689135
3756	11-2	0421	8S1Shch 84344 BALKa 84677299
3756	11-2	1759	7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA
3756	12-2	0414	ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ
3756	12-2	1826	V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV
3756	13-2	0432	DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V
3756	14-2	0500	VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS'
3756	14-2	1748	HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P
3756	15-2	0449	8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI
3756	15-2	1814	8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E
3756	16-2	0445	F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG
3756	16-2	1807	BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR
3756	16-2	1915	M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5
3756	17-2	0451	V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch'
3756	17-2	1651	HZ5T 5FSSch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP
3756	17-2	1901	TZLM FY5E F61N 37CN MUDR 7VNSch Zh7NZh YMA5 VTH3 AGDT
3756	18-2	0449	'U1B OSOG BO6C F56Shch ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV
3756	18-2	1719	L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ
3756	19-2	0534	27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ ShchT3O CIHS
3756	24-2	1702	BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR
3756	25-2	0421	8S1Shch 60829 MARCIPAN 03490375
3756	25-2	0431	8S1Shch 13510 KADROSOYuZ 65230351 MIMOBUYaN 35915505
3756	25-2	0510	M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5
3756	25-2	1518	8S1Shch 06990 KARABAH 20255348
3756	25-2	1524	8S1Shch 79897 DROSSYeL' 29887830
3756	25-2	1822	HZ5T 5FSSch 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP
3756	26-2	2015	42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh
3756	26-2	2259	Y8VM 40744 IZYuMOZONT 53141645
5448	1-2	1336	8S1Shch 40702 KOMIZM 64904157



S32 - Squeaky Wheel

Mode: USB

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

Freq	Date	UTC	Details
3828	1-2	1653	NYeVKA-26 DZhIGIT-46 SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62
3828	3-2	0436	AL'FA-45 MOROShKA 5775 BASKOHVAT 5748 with S30 in the background
3828	3-2	1716	Squeaky Wheel channel marker
3828	3-2	1718	SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62
3828	3-2	1724	AL'FA-45 MYeHOBRYaK 4778
3828	4-2	0304	AL'FA-45 KRITOSMYV 0448
3828	4-2	1540	SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62
3828	4-2	1716	AL'FA-45 ARAVITYaNKA 7198
3828	7-2	1557	NYeVKA-26 SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62
3828	7-2	1723	BIZON-64 RYezINA-38 KOVBOJ-39 STUPA-32 KARTA-11 FONTAN-34 RUZh'E-26 with S30 in the background
3828	8-2	0254	DUBLYoR-68 STOROZh-62 ShULER-60 ZASLONKA-27 KOVBOJ-39 DZhIGIT-46 with S30 in the background
3828	8-2	0420	KOVBOJ-39 SLIVA-94 OTPOR-89 STAZhER-29 NYeVKA-26 YaHTA-94 UTyoS-94 with S30 in the background
3828	8-2	1436	RUZh'E-26 PYeSOChNYJ-21 LANDYSh-74 PYeNZ-07 KURGAN-40 BIZON-64
3828	9-2	1800	KOVBOJ-39 SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62
3828	9-2	1823	DUBLYoR-68 KOVBOJ-39 STAZhER-29 ZASLONKA-27
3828	10-2	1836	NYeVKA-26 YaHTA-94 BIZON-64 PYeSOChNYJ-21 LANDYSh-74 DUBLYoR-68 PYeNZ-07 KURGAN-40. S30 in the background
3828	11-2	0348	AL'FA-45 26728 AFONIYa 35565465
3828	11-2	0408	AL'FA-45 85076 KARTOShKA 64654865. S30 in the background
3828	11-2	0411	AL'FA-45 36612 KISYeLYeK 13312545. S30 in the background
3828	11-2	0417	AL'FA-45 90350 KORTODYeK 51718797
3828	11-2	0426	AL'FA-45 57611 GASHYeNYJ 01139772
3828	11-2	1648	AL'FA-45 65140 VYeSTOVOYaZh 58273287. S30 in the background
3828	11-2	1818	NYeVKA-26 SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62
3828	12-2	1931	BIZON-64 KURGAN-40 RYezINA-38 KOVBOJ-39
3828	23-2	1845	NYeVKA-26 YaHTA-94 UTyoS-94 ALEUT-09 ROSA-64 DZhIGIT-46
3828	24-2	1718	SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62
3828	25-2	0425	AL'FA-45 15258 VTUZ 00215772 (S30 in the background)
3828	25-2	0437	AL'FA-45 23351 OBLIGATNYJ 22162518 (S30 in the background)
3828	25-2	0439	AL'FA-45 49760 LYeZhaN'Ye 21484418 (S30 in the background)
3828	25-2	1526	AL'FA-45 00281 AKTONYeGR 35461421 (S30 in the background)
3828	25-2	1533	AL'FA-45 77697 LORDOPONG 64215874
3828	25-2	1555	NYeVKA-26 UTyoS-94 ROSA-64 DZhIGIT-46 BIZON-64 PYeSOChNYJ-21 LANDYSh-74 DUBLYoR-68 PYeNZ-07 KURGAN-40 (S30 in the background)
3828	26-2	1733	SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62
3828	27-2	1648	BIZON-64 PYeSOChNYJ-21 LANDYSh-74 DUBLYoR-68 PYeNZ-07 KURGAN-40 RYezINA-38 KOVBOJ-39 STUPA-32 KARTA-11 FONTAN-34 RUZh'E-26
3828	29-2	1924	BIZON-64 PYeSOChNYJ-21 LANDYSh-74 DUBLYoR-68 PYeNZ-07 KURGAN-40 RYezINA-38 KOVBOJ-39 STUPA-32 KARTA-11 FONTAN-34 RUZh'E-26 SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62 (S30 in the background)



S4525

Frequency: 4524 kHz
Mode: USB

4524 kHz, 3-2, 1716 UTC Channel marker (dash)



S5292

Frequencies: 5292 kHz
Mode: USB

Date	UTC	Details
2-2	0738	TRYeL'-31 97603 INICIATIVA 26241926
2-2	1348	VIZIR-21 02382 KURSOVOJ 27459273 Last O is missed in first read
3-2	0829	BOYeC-43 34765 NYeZNAYuShchIJ 42248369
3-2	0838	BARZHA-08 76893 YaChMYeN' 53650957
8-2	0937	SYeKRYeT-39 46592 BALYeJKA 52689690
8-2	1332	RYeGATA-75 29272 NYeSKUChNYJ 52689643 count before the signal
11-2	0838	RYeGATA-75 28470 EPIGRAMMA 14359542
14-2	1421	Channel marker D
17-2	0907	BARZHA-08 84999 FAVORIT 63220952
17-2	1227	BOYeC-43 35482 POLOZhYeNIYe 36328589
19-2	1632	Channel marker D



V07

18368/16268/13968 kHz, 21-02, 0100/0120/0140 UTC

329 329 329 1 133 67 133 67
49307 09414 83523 00490 23215 54280 37384 94247 35537 14280
91299 30837 39279 31135 70705 37487 53933 38584 14592 21329
93083 72713 13549 40337 42837 19330 81193 98592 14277 75577
45532 42890 73332 95723 70078 85838 70575 33227 54711 84834
72719 98571 47072 12899 55951 03134 19745 78849 02130 23203
91134 07888 21599 87007 32435 98303 34833 17835 17390 43784
00153 23107 73940 29023 33533 83799 37783
000 000



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

Current schedules:

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

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

Logs:

Freq	Date	UTC	Station
9522	1-2	0600	New Star #4
7502	1-2	1200	New Star #4
7502	1-2	1300	New Star #4
15388	2-2	0300	New Star #1
9255	2-2	0602	New Star #4 i.p.
15250	2-2	0800	New Star #3
7502	2-2	1200	New Star #4
7502	2-2	1300	New Star #4
7502	3-2	1200	New Star #4
9522	4-2	0600	New Star #4
7502	4-2	1200	New Star #4
7502	4-2	1300	New Star #4
15250	5-2	0700	New Star #3
15250	5-2	0811	New Star #3 i.p.
15250	6-2	0800	New Star #3
7502	6-2	1300	New Star #4
15250	7-2	0800	New Star #3
9522	13-2	0600	New Star #4
15250	13-2	0800	New Star #3
15250	14-2	0700	New Star #3
15250	14-2	0800	New Star #3
9522	15-2	0600	New Star #4
15250	15-2	0700	New Star #3
15250	15-2	0800	New Star #3
7502	15-2	1300	New Star #4
9522	16-2	0618	New Star #4 i.p.

Freq	Date	UTC	Station
15250	16-2	0700	New Star #3
15250	16-2	0800	New Star #3
7502	16-2	1200	New Star #4
7502	16-2	1300	New Star #4
15250	17-2	0700	New Star #3
15250	17-2	0800	New Star #3
7502	17-2	1300	New Star #4
9522	18-2	0600	New Star #4
7502	19-2	1300	New Star #4
15250	20-2	0700	New Star #3
15250	20-2	0800	New Star #3
15250	22-2	0700	New Star #3
15250	22-2	0800	New Star #3
15250	22-2	0800	New Star #3
15250	24-2	0700	New Star #3
9255	25-2	0600	New Star #4 i.p.
9522	26-2	0600	New Star #4
7502	26-2	1300	New Star #4
9522	27-2	0600	New Star #4
15250	27-2	0700	New Star #3
7502	27-2	1200	New Star #4
7502	27-2	1300	New Star #4
9522	28-2	0500	New Star #4
9522	28-2	0600	New Star #4
15250	28-2	0700	New Star #3
9522	29-2	0600	New Star #4



V15 Pyongyang

I recently came across a CNN interview with former North Korean spy Kim Dong-shik, dated 22-5-2015. Interesting is that Kim mentions V15. That again confirms that the transmissions were for real.

Quote

Back then he said he communicated with HQ via short-wave radio. One program from Pyongyang that aired at midnight had an anchor reading numbers -- he said that was code to tell him his next mission. He assumes methods of communicating are far more sophisticated now.

Unquote



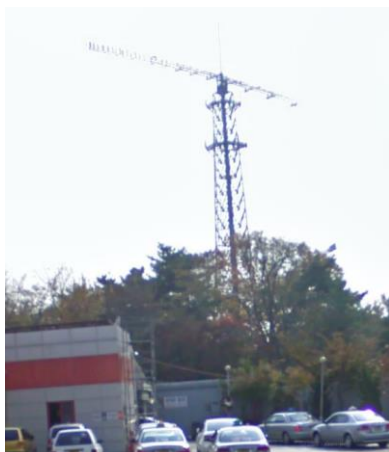
V24

V24 Report, submitted by Token.

I reported on Feb 15, 2016, that it appeared South Korean station V24 had possibly returned to activity.

Recap, V24 was last reported to have transmitted on June 16, 2015. In November of 2015 there were some music transmissions on two long time V24 frequencies, 36 hours of the same Korean pop song looped continuously on both 4900 kHz and 6215 kHz. On February 14, 2016, the station was reported on a Japanese language forum, using 5290 kHz at 1430z. Unfortunately I had given up recording for and searching for V24 at the end of January 2016, two weeks previously (let this be a lesson, they are not gone until they are gone). While recording for another station I coincidentally recorded that frequency at that time, but on an antenna pointed the wrong way, so I can say there was a carrier present at that time, but I got no usable audio. I started watching for this station again the next day, Feb 15, 2016. (see our Logs Section). At this point I have to wonder if the station is still shaking out operations. This is a small data set to try and look at trends, but we have to start someplace.

Note that the times of operation are so far only during the 1400, 1430, and 1500 time slots. In the past V24 used a time frame as wide as 1130z to 1640z time slots although more typically the time period from 1230 to 1630z was used (an example schedule from 2011 here http://www.tokenradio.net/Radio/SharedFiles/NumbersTfer/V24_M94_sched_V_3_0_Jul_2011.JPG). Although at the time it apparently ceased operations in June 2015 it had narrowed to 1300z to 1530z (schedule from early 2015 here http://www.tokenradio.net/Radio/SharedFiles/NumbersTfer/V24_sched_V_11_0_1Q_2015.JPG). I have been making daily wideband (4000 kHz to 9000 kHz) recordings from 1100z to 1700z to search for new frequencies and to confirm operational times and frequencies.



BCLman did a great job and found the transmitter location of V24. He reports that the transmitter site is located in Gongneung, Seoul, South Korea (37.638548, 127.110523). The site also transmits Echo of Hope on 6250, 4885kHz and MW jamming on 657, 1053kHz

See BCLman's recording near transmitter.

<https://www.youtube.com/watch?v=nMCA3BA6PHc>

<https://www.youtube.com/watch?v=Oq7ucwejRT4>

Picture of the possible antenna: Google maps



V26

Freq	Date	UTC	Veld0
4243	7-2	1226	Female operator. Messages
4243	9-2	1158	Messages. Female operator //9054 kHz
4243	12-2	1205	Message. Male operator //9054 kHz
4243	14-2	1209	Switched to voice. Messages. Female operator //9054 kHz
4243	16-2	1138	Message //9054 kHz
4243	16-2	1148	Ends message //9054 kHz
4243	19-2	1138	Message. Female operator //9054 kHz
4243	22-2	1257	i.p. //9054 kHz
4243	25-2	1212	Message in Chinese. Female operator //9054 kHz
4243	25-2	1212	Message in Chinese. Female operator //9054 kHz
4243	26-2	1203	Messages in Chinese. Female operator //9054 kHz
4243	26-2	1203	Message in Chinese. Female operator //9054 kHz
8073	6-2	0001	Voice callup. Male operator
8073	6-2	1130	Voice callup. Male operator
8073	7-2	1130	Voice callup. Male operator
8073	7-2	1200	Switches from M95 to V26. Male operator. Messages
8073	8-2	0001	Voice callup. Male operator
8073	9-2	1130	Voice callup. Male operator
8073	12-2	0021	Message. Male operator
8073	13-2	1130	Voice callup. Male operator
8073	14-2	1128	Voice callup. Male operator
8073	15-2	0015	XSV85 voice message
8073	15-2	1219	Message. Male operator
8073	17-2	1129	Voice callup. Female operator
8073	20-2	0022	Messages. Male operator
8073	21-2	0001	Voice callup. Male operator
8073	23-2	1130	Voice callup. Female operator
8073	25-2	1130	Voice callup. Female operator
8073	26-2	0001	Voice callup. Male operator
8073	26-2	1128	Voice callup. Female operator
8073	26-2	1204	Messages. Female operator
8073	26-2	1204	Message in Chinese. Male operator
8073	27-2	0025	Message in Chinese. Female operator
9054	9-2	1158	Messages. Female operator //4243 kHz
9054	12-2	1205	Message. Male operator //4243 kHz
9054	14-2	1209	Switched to voice. Messages. Female operator //4243 kHz
9054	16-2	1138	Message //4243 kHz
9054	16-2	1148	Ends message //4243 kHz
9054	18-2	1045	Messages. Female operator
9054	19-2	1138	Message. Female operator //4243 kHz
9054	20-2	2340	Voice callup. Female operator
9054	21-2	0013	Messages. Female operator
9054	21-2	2341	Voice callup. Female operator
9054	22-2	1257	i.p. //4243 kHz
9054	23-2	1212	Messages in Chinese. Female operator //4243 kHz

Freq	Date	UTC	Veld0
9054	25-2	1212	Message in Chinese. Female operator //4243 kHz
9054	25-2	1212	Message in Chinese. Female operator //4243 kHz
9054	25-2	2338	Voice callup. Female operator
9054	25-2	2357	Message in Chinese. Female operator
9054	25-2	2357	Message in Chinese. Female operator
9054	26-2	1203	Messages in Chinese. Female operator //4243 kHz
9054	26-2	1203	Message in Chinese. Female operator //4243 kHz
9054	26-2	2340	Voice callup. Female operator
9054	26-2	2345	Messages in Chinese. Female operator
9054	27-2	0005	Message in Chinese. Female operator



V28

앵무새 'AengMuSae
(Parrot)

Reportedly still on the air. No logs received.



VC01 - Chinese Robot
Chinese Air Defense

Modes: USB and LSB

The station changes its frequencies frequently. Known frequencies:

3036, 2519, 3679, 3749, 3837, 4075, 4258, 4343, 4410, 4422, 4427, 4480, 4530, 4580, 5006, 5195, 5232, 5288, 5303, 5328, 5330, 5393, 5592, 5700, 5742, 5802, 5832, 6209, 6479, 6771, 6840, 6858, 6860, 6916, 6949, 6960, 7090, 7351, 7506, 7608, 7684, 7726, 7739, 7744, 7756, 7770, 7792, 7864, 7865, 7880, 7890, 7924, 7938, 8000, 8025, 8170, 9000, 9169, 9192, 9209, 9290, 9340, 10508 kHz.

Freq	Date	UTC	Freq	Date	UTC	Freq	Date	UTC	Freq	Date	UTC
9209	1-2	0604	5006	2-2	1303	5006	4-2	1212	6916	24-2	1959
5006	1-2	1201	5006	3-2	1203	5006	4-2	1302	3519	26-2	1359
5006	1-2	1309	9209	4-2	0603	5006	5-2	1205	6916	27-2	1854
5006	2-2	1202	9209	4-2	0801	7878	23-2	1229			



VR01

This weird station is on the air since at least March 2014. It transmits live code messages. Always the same male operator.

Reported by several dxers are the following transmissions

6966 kHz, LSB, 24-03-2014, 0743 UTC

Message: Da, Da, Nomer (repeated)

Translation: Yes, yes, number

6985 kHz, USB, 15-03-2015, 1425 UTC

Message: Dvadsat' Chetyre (repeated)

Translation: 20 4

13985 kHz, USB, 16-11-2015, 0745 UTC

Message: Odin Nul' Tri (repeated)

Translation: 103

13966 kHz, USB, 10-02-2016, 0925UTC

Message	Translation
chetyrnadtsat' chasov	14 hours
chetyrnadtsat' chasov	14 hours
semnadtsat' chasov	17 hours
devyat' chasov	9 hours
desyat' chasov	10 hours
devyat' chasov	9 hours
devyat' tridtsat' chasov	9.30 hours
desyat' chasov	10 hours
desyat' chasov	10 hours
desyat' tridtsat' chasov	10.30 hours
odinnadtsat' chasov	11 hours
odinnadtsat' chasov	11 hours
odinnadtsat' tridtsat' chasov	11.30 hours
odinnadtsat' tridtsat' chasov	11.30 hours
desyat' tridtsat' chasov	10.30 hours
devyat' tridtsat' chasov	9.30 hours
devyat' tridtsat' chasov	9.30 hours
devyat' tridtsat' chasov	9.30 hours
devyat' chasov	9 hours
devya' rovno	9 exact
devya' rovno	9 exact
desyat' rovno	10 exact
Odinnadtsat' rovno	11 exact

MORSE STATIONS**MX****Russian Military beacons**

5154 kHz, 27-02, 1906 UTC Defective beacon sending RE





M01

5430 kHz, 06-02, 0800 UTC

171 279 15 15
 98712 98712 56767 56767 43244 43244 99934 99934 12213 12213
 66655 66655 77455 77455 43214 43214 90989 90989 34567 34567
 05058 05058 76236 76236 98123 98123 63810 63810 65567 65567
 279 279 15 15
 379001

At 0808 UTC:

80865 M223 68754 25710 09619 33502 66891 77090 40419 93412
 14537 44959 21371 69520 67035 751

5320 kHz, 16-02, 1800 UTC

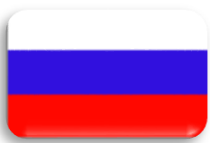
197 697 30 =
 09694 19167 29273 67807 97278 70377 80301 57245 85937 24716
 04382 06572 39010 44813 05459 22406 97478 83655 62333 98086
 03985 85545 23444 89431 59258 06385 96841 37583 05702 36121
 = 697 30 000

5320 kHz, 25-02, 1800 UTC

197 291 30 =
 01504 40878 00749 81544 95523 30020 09973 76996 75843 07729
 88422 67445 32462 75256 62405 58796 53095 07180 63582 77075
 67083 35586 63173 98905 13295 63564 49779 31446 37891 82062
 291 30 000

4490 kHz, 25-02, 2000 UTC

197 423 30 =
 52771 16437 51648 07196 57735 72183 30987 78481 37156 87781
 80724 97059 27256 97649 23917 59037 22753 26531 19946 08885
 10723 86963 99489 80190 32793 30650 82871 48508 49994 53320
 423 30 = 000



M01a

5414 kHz, 10-02, 0749 UTC

156 10
 34615 78641 57182 34975 90156 57891 46578 34675 61589 01725 =
 156 10 000
 111
 111 000

6868 kHz, 12-02, 0719 UTC, i.p.

56 54564 01320 35435 55484 71199 46545 56401 78973 32156 74853 54697 31001 42309 21034 =
 731 30 =
 111
 111 000



M01b

2470//3545 kHz, 18-02, 1932 UTC

910 164 35 =
 30575 49228 13793 59487 77686 15631 19254 84811 79945 59648
 08168 40222 78692 26291 71476 77609 15646 52753 15218 99415
 88062 22898 01825 20462 37980 27900 13399 46648 14622 81191
 17136 49255 49883 18971 19765
 = 164 35 000

2470//3545 kHz, 25-02, 1932 UTC

910 435 63 =
 85705 33889 02727 26915 54083 75130 10058 65674 00576 27621
 05794 05697 61375 60773 06946 05182 28444 46497 02753 86990
 55822 72411 00734 82407 71948 46049 25628 80051 60704 98536
 82180 68971 42814 85044 61289 92435 77053 69108 34007 67459
 31812 39943 67761 82495 68802 75957 91099 78523 55918 20600
 89268 04058 38794 47842 85578 19852 97034 16109 35387 04144
 87569 64694 60867
 = 435 63 000

2485//3160 kHz, 25-02, 2042 UTC

382 435 63 =
 85705 33889 02727 26915 54083 75130 10058 65674 00576 27621
 05794 05697 61375 60773 06946 05182 28444 46497 02753 86990
 55822 72411 00734 82407 71948 46049 25628 80051 60704 98536
 82180 68971 42814 85044 61289 92435 77053 69108 34007 67459
 31812 39943 67761 82495 68802 75957 91099 78523 55918 20600
 89268 04058 38794 47842 85578 19852 97034 16109 35387 04144
 87569 64694 60867
 = 435 63 000

6261 kHz, 26-02, 0537 UTC

121 41 =
 40061 15774 8226342941 83222 65853 94843 52693 20550 35728
 42240 31708 04061 41497 56511 81070 64784 49123 89525 29625
 15021 05696 13264 57283 54376 01086 14410 93523 66296 22153
 23454 44065 90336 24899 45091 22998 79051 28079 23403 53456
 rpt msg = 121 41 000



M03

Not heard since 15 January.



M12

13386/12189/11491 kHz, 04-02, 1500/1520/1520 UTC

725 725 725 1 (R) 4401 133 4401 133
02132 84903 89157 52012 71891 79946 95443 36653 27884 28252
22077 74174 84494 94931 51323 92068 89894 80630 24587 27505
99553 46652 46079 79434 32363 72044 21857 44916 45864 68848
24704 31883 53858 28629 86898 36250 09397 65579 70538 74196
25147 96777 44859 67435 35102 91045 47695 83534 56207 30039
27611 54264 82767 83411 26715 09459 38833 58362 74117 87609
57098 18328 26381 03537 81827 60906 65799 60577 04110 97185
33185 99253 10967 46620 49985 06336 46642 80952 55630 15586
89969 98025 72482 46007 68513 49055 76394 50653 25227 37357
45927 94606 76964 20146 77394 02439 59947 15730 77232 79535
63398 16453 38770 72430 24304 78229 40411 15255 04669 81244
00385 42493 94376 68036 78870 68508 32702 26108 85368 99947
14455 69521 06763 85871 60016 94704 87094 15735 92522 72855
90106 47108 15942
000 000

12205/13559/14728 kHz, 08-02, 1100/1110/1120 UTC

973 973 973 1 (R) 4644 113 4644 113
60913 53299 41669 15454 38328 73524 73797 13602 25599 45927
61871 35313 60773 57622 77897 68045 31328 47319 35507 71143
69797 82971 37600 51922 05474 33038 69891 17735 07691 13886
09148 67135 83801 06890 45295 67900 70412 48550 96307 47565
90178 82661 97712 05673 56443 53770 86064 75399 87947 03900
59292 38293 42473 77152 94365 73035 05692 44230 82520 84096
62055 16642 74573 41807 03407 44679 67714 36712 02980 88716
01641 47601 82298 00347 02882 74714 33229 62879 74166 69310
74335 87345 76813 91645 96233 72645 16538 39851 78606 89836
94795 91712 91452 85335 81572 16677 24476 26241 89934 39201
22152 66812 64322 87157 94712 28063 56317 59129 77503 99816
36735 17243 79716
000 000

13569/14869/16269 kHz, 11-02/14-02, 1010/1030/1050 UTC

582 582 582 1 (R) 495 109 495 109
19550 67230 54901 57785 79753 21132 30968 71635 64482 49550
37383 97054 35186 97811 22553 10550 42612 28405 90091 11922
64266 74484 97372 08870 89775 13583 43075 32441 08657 77935
44801 36299 49501 58945 72288 92842 96585 75838 68016 31844
35198 81169 46596 26133 64243 58002 75199 05924 38572 26239
63345 97992 24309 36093 07511 51878 52957 01415 05161 66970
98812 54079 71772 09224 73141 60642 77452 25813 39726 47695
67692 19597 59593 84113 44239 23865 82823 40556 32582 26055
29616 42232 48663 28545 21485 18585 93954 44930 70934 41534
41521 68789 23142 88059 54702 69143 88294 01602 37546 45786
80516 49142 61787 81574 49350 69963 62760 13699 11171
000 000

9162/8062/7562 kHz, 11-02, 1310/1330/1350 UTC

104 104 104 1 (R) 9944 141 9944 141
99687 56191 73281 81248 64439 48509 51216 97252 63257 79606
03529 47124 94227 65881 59052 70529 07725 70675 91975 81578
10566 44210 10504 99605 27187 16850 83636 15278 85197 09204
21730 97735 21620 43503 37064 15076 12612 55359 42066 38013
54228 67024 74108 14810 41635 96462 30925 28021 90679 72921
49165 05346 26093 51266 44119 41178 05694 70855 36185 31829
00940 06839 90349 23264 24292 57514 20409 51996 69529 38272
72330 27639 66408 19802 50548 83852 52280 55041 97255 36673
42731 06763 04527 16524 36810 50051 56683 09857 17121 31999
05637 22614 87920 84202 24564 96942 76680 65189 61420 85949
51229 96750 76504 23890 32565 96319 35647 36836 61062 68993
55777 77125 28172 58045 62013 22115 02605 89797 45293 03187
92837 91584 23170 46907 48675 06486 04844 06444 58985 44878
17683 01541 90248 27327 62082 42808 16209 36309 95885 25917
11137
000 000

13386/12189/11491 kHz, 11-02, 1500/1520/1520 UTC

725 725 725 1(R) 4887 114 4887 114
11171 81099 42936 14133 82291 98599 51389 71920 42518 41270
79928 51437 15144 46244 11390 18160 23708 84900 56478 52882
95585 38628 41218 10992 79641 67390 56501 98614 21265 61867
81901 23587 05731 75718 80031 96548 37148 45479 32322 86867
67481 22302 63329 03120 45743 64192 56043 03285 43655 28798
13136 51798 59008 25448 80505 64441 11505 30535 10256 94957
83077 40105 70379 80779 30107 61339 47318 99389 45574 03396
10641 08067 28053 64332 84581 59599 14146 73019 23658 99624
08986 22543 78185 34148 46179 16039 96964 87581 37274 28427
94166 74349 11591 45653 26739 39596 60353 93436 01821 05255
49335 45763 01268 42756 22896 05917 35948 53343 16252 11662
45857 80807 94650 83748
000 000

7637/9137/10237 kHz, 13-02, 0600/0620/0640 UTC

612 612 612 1 (R) 4076 161 4076 161
67759 44741 97529 79734 82931 27486 17343 28879 95262 24240
45104 62539 43615 87432 71633 35554 49737 29884 79453 93109
25051 56840 51364 91572 25958 87904 25124 52295 75627 69905
21354 33264 70017 66769 61217 33176 64908 47423 94360 54005
92344 60372 52559 00027 55616 84816 69530 85045 60824 22414
73527 52517 67376 61409 21166 15838 98558 83475 55021 63077
07523 00398 31006 52210 83633 33545 51373 02771 46278 72096
81320 79864 82425 79005 14345 16489 03683 46618 25906 49157
88741 40691 31964 27668 83534 34275 23880 77932 23414 50546
02451 28262 31531 11266 18287 35655 66916 42424 96333 22888
50771 05626 90945 20968 41501 99644 78284 40782 71221 19481
72602 38272 13576 95341 84856 71593 36672 70069 72351 69195
84992 42366 06300 48132 80644 54037 66146 69867 64256 65921
95650 03497 73103 68824 46851 07785 37732 16406 88952 30672
08088 18756 61521 79130 11601 26634 95559 07864 32883 31030
00160 41498 65509 73965 64289 57289 94589 35611 33238 97869
15040
000 000

9176/7931/6904 kHz, 24-02, 1800/1820/1840 UTC

257 257 257 1 (R) 5353 145 5353 145

87972 58106 67295 83321 94741 93076 23903 67509 45954 44001
00723 54312 34720 06037 24767 00552 91642 36156 85670 37505
08369 46369 63909 20834 83899 38752 95967 50777 16480 01591
74948 08493 72983 35460 14529 81604 59092 20965 35240 32554
76999 96777 08538 87131 63591 50300 28838 63591 36209 59073
32649 90375 12245 52067 14235 75793 06338 35385 60452 36447
43297 90930 11229 63428 69819 07897 01219 97034 28704 67637
61593 39300 13959 87539 42767 30284 96324 68931 20731 79627
46855 59429 68977 28573 42360 75788 97232 90416 62105 37042
80025 83557 32509 17990 28000 09961 47036 84662 96268 80439
06138 32500 23508 06599 26705 57616 85297 54973 07751 05212
06085 96101 95073 02556 10197 19581 63140 62918 03205 39243
34033 74623 25693 36521 74427 04280 12876 46127 06744 34923
16743 29353 05599 94293 25491 02350 41125 96504 62700 90651
33579 34994 26510 70564 54761
000 000

13386/12189/11491 kHz, 25-02, 1500/1520/1520 UTC

725 725 725 1 (R) 6073 133 6073 133

13967 13480 88381 49522 76323 04659 93231 32770 05724 40701
62622 12703 01057 31027 90221 63032 99077 49303 55465 09137
57349 96818 13734 19354 79009 51762 37620 09855 96120 45526
47959 97733 46059 28532 51016 38427 66046 38003 19435 54590
07339 03663 38854 90354 54713 62489 60412 54907 27892 40096
53515 88389 85403 42788 27644 92825 97894 36020 76117 40118
27726 60184 24261 57338 84789 65037 89523 53087 52934 73833
44157 70358 77251 71058 22842 81823 89563 08867 24884 69602
06837 90976 85470 51017 41620 22238 63282 55410 21119 92818
83816 41410 98702 53606 57254 31530 89806 27924 36835 26696
10937 76437 00039 42900 49790 07594 30885 39981 87532 37974
58732 32783 05054 73283 20572 35412 15949 35313 01709 14364
33580 43485 45259 12404 90560 90419 47182 29257 71093 39584
44970 75179 25783
000 000

11556/10711 kHz, 25-02, 1720/1740 UTC

546 546 546 1 (R) 1408 87 1408 87

99156 54402 70684 21039 42145 29888 26363 70116 52138 66612
40734 78539 79813 63795 75476 54141 76535 74926 65703 53178
27354 84935 32308 62102 67104 83029 70675 36344 10572 99104
27948 36903 89259 37764 39344 55867 48711 59482 65478 95772
99254 38386 28675 70997 42536 37705 19050 24130 66826 77964
08705 44135 41552 33688 35019 35057 65637 93741 54389 10602
76029 89805 90236 66539 97771 50495 96228 90255 16951 26458
55464 67174 26989 69077 24948 34225 76516 80440 12036 41306
93138 30220 71594 24643 39677 57065 85509
000 000

10343/9264/8116 kHz, 25-02, 1800/1820/1840 UTC

124 124 124 1 (R) 3661 140 3661 140
26032 80439 90030 12852 67806 01271 26615 06467 96641 04121
88907 65686 39171 70182 94133 67457 60927 03347 93423 15451
49538 00911 07873 69172 0461Z 59065 94909 77965 17147 52241
46202 79336 12809 11706 19379 94217 04356 24993 83320 10611
81780 56489 31004 59554 43431 13637 65020 69695 15842 94601
76128 39095 09775 72684 44029 00887 35761 25786 39998 90576
00155 71337 50777 20887 07332 65343 76627 78918 87198 75052
23331 07937 38822 00651 06666 31902 83543 86830 40973 91107
92238 28205 94391 29107 53566 16499 27962 36587 01484 24683
82605 45225 09046 99024 36200 51732 20398 41807 02092 59936
78003 52368 40647 40321 28897 52987 44263 66616 57697 93129
54821 71668 87950 82901 18705 70812 16243 90363 34897 66539
58477 81227 41375 92007 20298 30419 73960 83135 42313 15430
52437 26644 83424 87038 09811 03094 34980 08751 24204 14750
000 000

14728 kHz, 29-02, 1140 UTC

973 973 973 1 (R) 5780 135 5780 135
21061 58208 25994 37641 67213 34580 97594 25700 95122 63773
67854 79382 31355 92941 26135 10803 34001 03845 09638 24270
40541 17992 68908 95472 37848 47558 76404 00731 12503 32355
93694 12014 60918 33053 54702 58203 75627 26897 78452 30938
28836 77432 39194 19576 90879 60724 61757 25134 49403 18345
35952 10096 02692 76366 74428 51541 65026 43648 05005 34391
13423 12423 96807 83752 16508 20251 57746 70996 86546 11221
59572 97505 01781 16397 87035 41505 20371 53493 53506 53636
26370 70805 25393 63084 87724 72292 80262 39203 11066 13235
94608 66432 42694 77549 36041 48125 74369 49238 77107 46024
24641 53701 84259 44024 08702 83924 24639 50472 01479 85950
58354 73448 37460 37115 31014 99742 70651 79406 39134 66322
24625 65239 01443 12779 48083 94685 55049 12358 93032 64117
52916 37340 70344 18659 76405
000 000

9167/7931/6904 kHz, 29-02, 1900/1920/1940 UTC

257 257 257 1 (R) 2657 82 2657 82
01704 58092 34826 36127 79060 05205 45792 49591 09978 95599
38075 75243 56014 33814 26129 01284 70745 11155 76284 67699
47819 77533 35219 78428 08954 13465 76104 32158 05992 33350
34061 86277 14421 18321 27486 10088 26065 38841 72150 50706
56922 84811 13957 88761 78776 21278 16772 80757 84707 10016
83623 59988 01293 23517 72131 07178 74536 75791 42439 39927
34695 38913 35253 88814 62593 31346 92515 65711 93462 55326
85491 48668 90632 21821 94778 68331 64759 97966 00242 83056
58839 74599
000 000



M14

5430 kHz, 06-02, 0800 UTC. Another odd M14 transmission

171 (R) 279 15 15
98712 98712 56767 56767 43244 43244 99934 99934 12213 12213
66655 66655 77455 77455 43214 43214 90989 90989 34567 34567
05058 05058 76236 76236 98123 98123 63810 63810 65567 65567
279 279 15 15
pause
379001 pause
80865 M223 68754 25710 09619 33502 66891 77090 40419 93412
14537 44959 21371 69520 67035 751

5560 kHz, 13-02, 0900 UTC, with errors

171 (R) 279 15 15
98712 98712 56767 56767 43244 43244 99934 99934 12213 12213
66655 66655 77455 77455 43214 43214 90989 90989 34567 34567
05058 05058 71236 71236 98123 98123 63810 63810 65567 65567
279 279 15 15 (no zero's at the end)

3721 kHz, 16-02, 1600 UTC, logged by Danix

The first two minutes of the callup were "6161S" without breaks.
Occasional short pauses after multiplies of five groups.
A longer break after the 60th group.

6161S (R2) 361 820 128
37613 01355 53581 62781 19508 33615 62827 66150 55144 15367
60559 86057 44607 40442 02051 12948 31698 99990 93816 02868
76040 60799 20895 93454 30698 44580 32952 62409 05462 95207
86208 15339 47404 84978 49521 31610 82295 52214 30730 52457
23036 06101 62787 34930 32493 94384 87283 76104 66951 44833
08373 76486 91096 34657 72654 34369 19297 74801 67788 13960
53577 49246 55587 12442 53099 90615 80752 47985 51950 10778
25635 34581 39653 64737 66116 11810 62153 90607 49867 86419
45513 28967 33965 11119 85435 28091 46264 94549 96561 64051
50779 61826 89509 93080 41916 74802 94376 97803 69325 74913
06350 48707 81368 15264 07159 48787 00367 24522 31877 01122
76413 78671 09029 06723 33779 01433 19883 88978 69142 50057
84159 55295 52747 35434 38558 89093 45543 26589

6786 kHz, 15-02, 0552 UTC, with mistakes

528 777 777 15 15
12121 12345 23456 12312 32121 89089 67890 45678 09876 98765
54321 56789 13579 24680
77775 777 777 15 15 00000

4761 kHz, 24-02, 1920 UTC

478 133 15
12345 32321 45451 89012 45456 12356 12334 65656 78780 09876
13456 76890 65991 76765 89078
133 15 0000



M21 + variants
Russian Air Defence Forces
Во́йска ПВО Во́йска ПВО

3494 kHz, 23-2, 1735 UTC

9623868697832 19096231933 009623 8686978193537 96138163501100 009623818069881 935517962081005121



M41
Russian Air Defence Forces
Во́йска ПВО Во́йска ПВО

2006.5 kHz, 09-02, 0630 UTC, i.p.

9932 998546 928 009933

9905 65132517993391005 11800 0009934

9905 289 0832 51799347100511800

5740 kHz, 11-02, 1330 UTC, i.p.

J3VT J3VT AR

2006.5 kHz, 13-02, 0530 UTC

VVVVVVV 5EQB 5EQB AR

5740 kHz, 13-02, 1330 UTC, i.p.

J3VT J3VT AR

5881.5 kHz, 18-02, 0746 UTC, i.p.

001101 734 3021 7180 37

ABV

001101 734 3021 7380 37 732

511 1101 800 38 AR



M89 - Chinese military

Note by JPL: 2SLC, RIS9, and ALSK still not heard on their known frequencies since 16 January 2016. A search has yet to find any new frequencies/callsigns. I'm aware that on 31 December 2015, the Chinese PLA Second Artillery Corps was replaced by the PLA Rocket Force. This new Force will have more functions and troops than its former organization. This could account for the disappearance of 2SLC, RIS9, and ALSK. If nothing else, this is further proof that these three stations are linked/part of the same network. Another possibility is that these three stations have switched to some sort of digital mode on new frequencies. I've not noted any digital modes on the old CW frequencies to date. Still lots of M89 CW activity. Will keep monitoring.

5533 kHz, 09-02, 1050 UTC

UNN5 3U54 47TU 33U4 N7N4 T676 TTN4 TT4U (Cont'd)

K

CY HW K

R 51W GA = = T3A. D333 67A5 NTU7 (Cont'd)

5347 kHz, 09-02, 0957 UTC

V 4IPT DE CH4W K

V 4IPT DE CH4W K

V 4IPT DE CH4W K

R QSA 2 HR WK NR 10 U NR .. K

R U NW COMM 7891 K

R SK K

3516 kHz, 09-02, 1559 UTC

DP7. AR
 DP91 QSA ? K
 NIL SK
 GB
 DE DP91
 DE DP74NJ QSA 1 ? (DP7491)
 DE DP7491
 DP7591 QSA . ? K
 NIL
 DP7591 QSA 2 .. K
 DE DP91 ? K

5511 kHz, 09-02, 1054 UTC

RPT 140W K
 RPT 141W K (Cont'd asking for repeats)
 QSL QSL 1855 K
 AS AS
 HR 7G GA K
 HR NR 01/CCK CK 191 12 0209 1820 RMKS 1242 TO 9362 K
 = = 5NDA N.6N 63AU 436T (Cont'd)

6326 kHz, 09-02, 1042 UTC, i.p.

7DT6 UA56
 VVV VVV VVV VVV CHI EEEE
 VVV C54S C54S DE J4VW K
 VVV C54S DE J4VW K
 R R QSA 2 IEC = 3255 AR K
 IEC = 3255 AR K
 R IEC = 3255 AR K
 R R HR 7G GA
 NR 041 CK 99 95 0209 1740 RMKS 4409 TO 3010 =
 574A DT63 7A36 7AT3 T3D6 7DT6 UA56 43TA N576 D6AT (Cont'd)

9131 kHz, 09-02, 0925 UTC

R RPT 29W K
 R RPT 29W = AB4 TA64
 RR RPT 29W DDT5 DDT5 K
 R RPT 73W K
 R RPT 73W NADN NADN K
 R QSL 1708 K
 R OK IA HR OK 25..
 ROK U GA K
 R HR MSG K
 R GA K
 R HR 7G GA K
 R GA K
 R MSG NR 034/CCK CK 91 74 0209 1700 RMKS 6035 TO 6349 K
 R GA K
 R = =
 63NT 6T4A AT53 D4A6 UNDA 6A64 4UDA NDA7 4N5A T744 UT4N
 (Cont'd)
 AR QSL ? K
 R RPT 19W K
 R RPT 10W = 0744 0744 AR K (Cont'd repeat groups)
 R QSL 1728 K
 R HR WK NR 10...
 HR WK NR 0622 K
 R BOZ KP NIL SK K
 HR NIL VA
 R SK GB K

6868 kHz, 09-02, 1033 UTC

7A3N 6DT4 5T3A N7U3 7TD4
 AR K (Other station also on this frequency, but mostly unreadable)
 RPT ... AR K (Cont'd repeat groups)
 R U CALL U CALL U CALL

9180 kHz, 09-02, 0945 UTC, i.p.

CK 91 03 0209 1730 RMKS 4208 TO 1006 =
 73.75.. 7.5 UD3A D45N DT4T AA7A (Cont'd)
 AR
 R RPT 42W A7D4 A7D4 K
 R SK

9171 kHz, 09-02, 1006 UTC

= 1534 AR K
 R IEC = 3924 AR K (Other station also on this frequency. Exercise traffic)
 R HR 7G GA PSE CY K
 R GA
 7G NR 0209/CCK CK 19 22 0209 1808 RMKS 7470 TO 7490 K
 R RPT RMKS K
 RPT RMKS 7470 TO 7490 K
 R GA
 R 1P 1W =
 544T 3UD7 UTNU 57AT 5D74 6DDN DT34 7T46 AN54 35AN
 4475 4U7A A365 D74A A53A UA.D. AN54 T.34 5ND5 III AR K
 R FM ... 8 TO 14 K (Repeat groups)
 R U GA K
 R 7G GA NR 0209/CCK CK 19 22 0209 1816 RMKS 7490 TO 7470 K
 R GA K
 7G
 534T 3UD7 UTN 57AT 5D74 6DDN DT44 7T46 AN54 3475
 4474 A465 D74A 54AU T6D4 AN54 TD.34 5ND5 III AR K (Repeated message)
 R QSL 1818 K
 R R HR WK NR 1042 K
 R HR WK NR 015 K
 HR WK NR 015 K
 R NIL SK GB
 NIL VA

5643 kHz, 10-02, 1010 UTC, i.p.

A55A U543 AD6. UDUD
 AR K
 R QSL 1811 K (Other station also on this frequency)
 HR WK NR 06 K
 R HR WK NR 17 K
 R NIL SK
 NIL SK
 VV FDR5 DE ZSW5 K
 VV FDR5 DE ZSW5 K
 USB
 R R

Switched to voice at 1112 UTC

5692 kHz, 10-02, 1020 UTC, i.p.

CQ = 55UT 556U 5547 55UD 556U 5T77 553A 55DT 5547 55T7 5547
 5T76 (Cont'd)
 AR
 QSL ? HR WK NR 21
 HR CQ QSL 1822

68951 kHz, 12-02, 1127 UTC, i.p.

N4UD 11 EEEE 11W = = N4UD OK K. QSL 1927
HR WK NR 115
RPT
HR WK NR 115
NR 6150 K
OK NIL SK GB QS
NIL SK
OK
GB AR AR
OK NIL SK GB
AR AR
OK GB

8069 kHz, 12-02, 0035 UTC, i.p.

7557 56UD D4NT AN6T TNA7 37AT
AR K
R RPT 5W = 45U4 AR K
R RPT 5W = 45U4 AR K
R HR WK NR 243 K
R GA
U RPT NR K

5486 kHz, 15-02, 1436 UTC, i.p.

R MSG MSG GA K
NR 1..
FFF NR 5..
FF NR 5859 TIME 2240 RMKS 2590657 TO 2590756 =
C.4/C56 F
FFF NR 5859 TIME 2200 RMKS 2590657 TO 2590756 =
TN64/EEEE =
4/CH6 AR
DFFF NR 5859 TIME 2240 RMKS 2590657 TO 2590756 =
C64D/.. AR
QSL .. (Other station also on this freq but mostly unreadable)
QSL 2233 2233 k
K
R R MSG GA K
R VVV GA
FFF NR 3985/EX 032234 RMKS 2590756 TO 2590657 =
NR 3985/EX TIME 2234 RMKS 2590756 TO 2590657 =
UK..FP8 AR K
NR QSL 2238 QSL 2237 K
R GAMSG NR 5859 CK
MSG NR 5860 CK 100 29 0215 2240 RMKS 2590657 TO 2590756 K
R GA
= = = U7N5 N..U DTU. 4T3D (Cont'd)
AR QSL ? K
R F QSL 2242 K
NR MSG GA K
R MSG GA U CY
MSG NR 3986 CK 100 290215 223. RMKS 2590756 TO 2590657 =
7NDA 45.N. UD... (Cont'd)

3516 kHz, 18-02, 1600 UTC, i.p.

DE DP7.91 QSA 2 QSA ? K
DP7391 QSA .. ? K
NIL SK
DP6...
DP7491 QSA .. :? K
NIL SK
DP7... QSA 2 QSA ? K

7652 kHz, 15-02, 0037 UTC, i.p.

R MSG NR 3958 CK 100 98 0215 0830 RMKS 2590268 TO 2590260 =
= ATDN ASU4 4DA5 TNAD 543U (Cont'd)
AR
MSG NR 3960 CK 100 98 0215 0830 RMKS 2590268 TO 2590260 =
54UT T5A6 D5N6 4T5U 56TA N345 DN4U (Cont'd)
AR
QSL ? K
R U MSG GA K
R QSL 0857 QSL 0857
R CHG U I EEEE
R H.R CH. EEEEE
R CHF EEEEE
R CHG USB USB USB K
Switched to voice at 0100 UTC

7654 kHz, 15-02, 0039 UTC, i.p.

R GA K
QSL 0833 0833 K
R FF NR 7943 TIME 0834 RMKS 2590264 TO 2590267 =
CD2/6A4 AR
FF NR 7943 /EX TIME 0834 RMKS 2590264 TO 2590267 =
CD2/6A4 AR QSL ? K
R U GA K
MSG NR 7944 CK 100 98 0215 0840 RMKS 2590264 TO 2590267 =
D7AD UTAA D7A5 47DN NTA4 457A (Cont'd) AR
QSL ? K
R GA K
R QSL 0856 QSL 0856 K
R MSG GA

8720 kHz, 15-02, 0025 UTC, i.p.

62T39 = (Rare 5 group cypher traffic)
6666A U73AN 55A7D 6UNT335537 3A3T7 NAT75 6U64 T4..T4A..
7NDN7 =
N3D56 6UD7A TDU7U UA66D T4TU4 3536U 3A5T3 D3UU4 7D555
75664 =
T775A 45U7D 55T5D N36N7 AD473 A7AUT AUD7N N65AA 674T6
D5TD5 =
UDD65 A4T67 4T4D4 3TUAN .AN.7 U.5A5 D543T T543U AR
CMG FF
XCXC
R R R FF XCXC H100 FF 872 R 880 AR
EE (Other station also on this frequency)
R EE
QTC NW ?
R R OK K XC 15/1100 K
QSL .. A
R TU GB AR AR
.. AR K

8123 kHz, 15-02, 0116 UTC, i.p.

QSL ? K
R QSL 0.
IEC 1863 AR K
R IEC = 7..34 AR K
R HR 7G GA K
R GA
NIL NR 043/CCK CK 40 45 0215 0850 RMKS 7641 TO 7111 TO 7.80
TO 5071 TO 7641 K
R GA K
= DNTU AD5T 56D4 D7NU A4NA (Cont'd)

6485 kHz, 16-02, 1443 UTC, i.p.

DUTN 4NA7 74DN DAD6 4UU4 (Cont'd)
AR K
R QSL 2245 K (Other station also on this frequency)
R U MSG GA K
R 7G GA NR 0.45
NR 054 CK 99 9. 0216 2255 RMKS 8.51 ..4470 K
R GA K
47N. (Cont'd)
AR K
R QSL 2252 HR NR 1040 K
R HR NR 146 K
R NIL SK GB
R NIL SK GB

5555 kHz, 17-02, 1116 UTC, i.p. Very messy traffic, Handsent

7LACI EEEE CE.TPXHOMFCQUDI NFBMLWUGXILNE EEE (Cont'd)
WIGHT PFKJV UYYAS EEEEEEE YA4ORLA OM EEEE (Letters all runned together)
ODWE EEEEE ODJYR. EEEE R EEEEE AYELVATUPTRSEEEEE
3RN. WGWL3FN..UOMI AW3ACCPXIRWI ...41M Y2ATBOR1CY
CNOUKZNF
7LWN RZIPGUWSMBFZKDIMELAUCJR.IHA
UO MSUKFPCGI RJVOBYTR EEEEE BYT.. CI
VPFDYHGIRNZIPGUWSUBFZKEUMEL AAR N AR AR AR AR
= = QIW K
= = TQGUDSOZVXBPPYFSRPWIRFJZNMZOLRYDHXBISOFQGPDEM
EEEEEE QPBJAYEUHVHCTXIW
NPDYEEMKXIOAISE MQELOTNZJDPNRNWTLC THFYRUMQZ EEEE
MQFOGOIQI EEEEE
MRSYVLM EEEEE
QSYVFAPZKUWHCJTKWICDYRXBHC SOZVUGNFZBPDCHWKIGOASRZFLW
EEEEEE
FR.YKTOWPARNNIXMWVZOJDUGZUD.XKWHJAW GQQHYVNIGJNR
EEEE
RJNPJACQU..GO..HXF (Cont'd)

5436 kHz, 18-02, 1109 UTC, i.p.

R KIJT8 DE 45RF R QSA 2 QSA ? K
R QSA 2 K
R RPT 7G K (Other station also on this frequency)
RW R RPT 7G K
R HR FF GA NR 012 1900 RMKS CQ = =
Q6.82/K41J5/K7 ? K7214/15220/FJ22 ? FJ126 AR K = =
Q6882/K4115/K7214/15220/FJ226 AR K
VV IE VVV HK7F DE 45RF K
R KIJ8 DE 45RF R QSA 2 QSA ? K
R QSA 2 K
R QSL 1907 K
R U EEE R HR WK NR 09 K
R HR WK NR 33 K
R S VV
VV SRF DE 45.. K
N KIJ 8 ...
R KIJ8 DE MJKI R QSA 2 QSA ? K
R QSA 2 K
R QSL 1910 K
R HR WK NR 09 K
R HR WK NR 09 K
R HR WK NR .1 K
R

8878 kHz, 18-02, 0142 UTC

3U7D 7DNT AR N EEEE K
R GA K
R QSL 0947 K R QSL 0947 K
R MSG NR 1108 CK 100 44 0218 0930 RMKS 2590959 TO 2590756
=
5UNA DNUT 4A6U D6U4 T674 TUDT 576D (Cont'd)
AR K
R U GA

3894 kHz, 19-02, 1600 UTC, i.p.

DP91 QSA 2 NIL SK (Stations on 3516)
DP7791 DP91 QSA 2 NIL SK GB
DP7591 DP91 QSA 2 NIL
DP91 QSA 2 NIL SK GB
DP7391 DP 91 QSA 2 NIL SK GB
DP7691 DP91 QSA 2 NIL
DP7591 DP91 QSA 2 NIL SK GB

7777 kHz, 20-02, 0744 UTC, i.p.

R QSA A2 2 EEEEE
QSA 1 U QSY TO VVVV K K
VVV 8JRS 8JRS DE JJVR K K
DE BORG YI R QSA 2 K K
R QSA 1 K
S.. AU EEEEE
R QSA 1 U QSY TO VVVV K K
R QSA 1 U QSY TO VVVV K K
VV 8JRS 8JRS DE JJVR K K
R DE BORR K K
R QSA 2 K K
IEC BT 4996 AR K K
R BT 8076 AR K K
R HR NR NOT K
R HR 7G GA ?
R GA K
VVV VVV 8JRS 8JRS DE JJVR K K
R DE BORNEEEEE
R DE BORG K K
R QSA 2 K K
R QSA EEEEEEE QSA 1
BGRR QSA 1 U EEEEEEE R QS.. K
QSA Q QS Q Q QSA 1 U QSY TO 04 K K
VV 8JRS 8JRS DE JJVR K K
R BORR K K
R QSA 2 K
R QSR 1 K
U EEEEE M EEEEE R QSG
QSA QSG 1 U QSY TO 01 K K
VV 8JT EEEEE U
VV 8JRS DE JJVR K K
R DE.9 EEEEE ORR
VV VV VV 8JRS 8JRS DE X EEEEE
VV 8JRS DE JJVR K
R DEBORR KK
VV 8JRS 8JRS DE JJVR K D EEEEE
VV 8JRS DE JJVR K K
R D EEEEE R DE BORR K K
VV 8JRS DE T EEEEE
VV 8JRS DE JJVR K
R DE BOR. K K
R QSA 2 K K

5192 kHz, 20-02, 1329 UTC, i.p.

NR 4507/EX TIME 2140 RMKS 2801268 TO 2801264 =
AB2/CQ4 AR = ABW/CQ4 AR QSL ? K
R QSL 2133 2133 K (Both stations on this frequency)
R GA K
R FFF NR 7491/EX TIME 2144 RMKS 2801264 TO 2801268 =
C55/DQ6 AR
FF NR 7491/EX TIME 2134 RMKS 2801264 TO 2801268 =
C55/DQ6 AR
R QSL 2137 QSL 2137 K
R U MSG GA K
MSG NR 3508 CK 100 98 0222 2130 RMKS 2801268 TO 2801264 =
63NT UD45 A7UN (Cont'd)
AR QSL ? K
R QSL 2142 2142 K
GA K
R MSG NR 7492 CK 100 98 0222 2130 RMKS 2801264 TO 2801268 K
R GA K
R = DN7T T6DN (Cont'd)
AR QSL? K
R QSL 2146 QSL 2146 K
R OK K EEEE USB WK U SB WK K
R QSA 2 K
R
R HR WK NR 35 K
R HR WK NR 29 K
R U2200 COMM OK0X K
R
R HR KP U K
R
VV OK0X DE 4ISX K
R OLVS DE GK0S R QSA 2 QSA ? K
R QSA 2 K
R
R HR WK NR 35 K
R HR WK NR 15 K
R U 2200 COMM J5PS K
VV 4JUT DE 4ISX K
NOLVS DE OKTS R QSA 2 QSA ? K
R QSA 2 K
R
R HR WK NR 45 K
N HR WK NR 31 K
R U 2200 COMM 4IVT K
R
R HR KP U K
VV 4IVT DE 4ISX K
OLVS DE J6UZ R QSA 2 QSA ? K
R QSA 2 K
NR HR WK NR 45 K
N HR WK NR 14 K
R U 2200 COMM 4JUT K
OK
R HR KP U K
VV DPR7 DE 4ISX K
R OLVS DE 8LPY R QSA 2 QSA ? K
R QSA 2 K
R R HR WK NR 45 K
R HR WK NR 21 K
R U 2200 COMM J2..
R R HR KP U K

5301 kHz, 23-02, 1253 UTC

CCK CK 28 13 0223 2050 RMKS 8832 TO 4048 844 EEEEE RMKS 8832
TO 4048 8441 4041 8555 4201 =
75NU 46T4 (Cont'd)
AR HR MSG GA HR MSG GA
MSG NR 88/CCK CK 28 13 0223 2050 RMKS 8832 TO 4048 8441 4041
8555 4201 =
75NU 46T3 TT4N 7TA4 (Cont'd)
AR
HR NR 2050 HR NR 2050 NIL SK NIL SK

5477 kHz, 23-02, 1242 UTC, i.p.

R QSA 3 QSA ? K
R QSA ... (Other station also on this frequency but mostly
unreadable)
R IEC = 1566 AR K
R HR F GA K
R GA K
RF NR NR 825/EX 2041 RMKS 9937 TO 828 EEE RMKS 9937 TO 8289
=
ABC1/CBA2 AR K
RPT TIME
TIME 2041 K
R R QSL 2043 K
R F GA
F NR 9. ..
R QSL 2045 K
R HR MSG 8 GA K
R MSG NR 826 CK 99 58 0223 2045 RMKS 9937 TO 8289 =
DNUA .4TU A5AU 76NA (Cont'd)

5555 kHz, 23-02, 1057 UTC

MSG GA K K
NR.7 AN4A N7A3 .N3.A743 TA3 4UDT T5UT T (Cont'd)
AR ...

5555 kHz, 23-02, 1224 UTC

III VV UQC K
NR NR NR NR NR NR NR NR NR NR 0023 CK 49 24 0130 15.. = =
7NA 55437 N3X A35U A4D7 6N4N D4A7 NT7A (Cont'd)

7777 kHz, 23-02, 1108 UTC

7TN6 7AD6 5TD7 A77U DT3N ANU6 4D46
III = = D7UA 365A 446D 573N U7DT (Cont'd)
III = = 5ANA 347T DN7A U5TD 36UN (Cont'd)

8772 kHz, 24-02, 0847 UTC

T5AD 6N4D N7DA 7543
AR
CQ QSL ? K
R GA K
R U GA K
NR QSL 1.A2 1..2 K
R MSG NR 4384 CK 101 44 0224 1640 RMKS 28017.. TO 2801959 =
56NT AT4U AU.D 756T (Cont'd)

5555 kHz, 25-02, 1120 UTC

FF NR 01/EX 0/EX 10..
 R GA (Other station also on this frequency)
 =
 54LIU/1HENG K
 AGN ==
 54LIU/1HENG AR K

5135 kHz, 25-02, 1241 UTC

TO 4627 K
 R = = FWF/IFN AR K
 = = FWF/IFH K
 R R R R QSL 2044 K
 HR OZE 7G GA K
 7G NR NR 1160 CK 80 50 0225 2045 RMKS 4620 TO 4627 K
 R A R = =
 4NUA 44AD ND.6 4UD3 DT54 7TA6 A5U4 D4N3 (Cont'd)

5301 kHz, 26-02, 1227 UTC

VV BDRT (x3) DE HBVD (x2)
 HR SVC GA SVC GA =
 384/C229/4914/67/62/00/265/COMM/8842 AR
 HR SVC BT (x3)
 GA HR SVC =
 384/C229/4913/67/62/00/265/COMM/8832 AR
 HR NR 2050 HR NR 2050 NIL SK NIL SK

6704 kHz, 26-02, 1220 UTC

U7A5 T4A7 TDU7 D5NA D6U4
 AR K
 R R RPT 4P48.. K (Other station also on this frequency)
 R RPT 3P I EEE RPT 4P 48W = = D5NA AR K
 R QSL QSL 202. K
 R OK USB
 R OK K

5331 kHz, 26-02, 1235 UTC

R J2QS DE F2NU R QSA 1 QSA ? K
 R QSA 2 K
 R HR WK NR 35 K
 R HR WK NR 0512 K
 R U 2130 COMM GS7W K
 R R HA EEEE R HR KP U K
 VVV F7NY DE 4KQU K
 R .. 22 QS. . QSA 2 ..
 R QSA 2 K
 R HR WK NR 35 K
 R HR WK NR 0618 K
 R U 2130 COMM DNP5 K
 R R HR KP U K
 VV DNP5 DE 4KQU K
 R J2QS DE 0N0R R QSA 1 QSA ? K
 R QSA 2 K
 R HR WK NR 35 K
 R HR WK NR 0801 K
 R U 2130 COMM F7NY K
 R HR KP U K
 VV B5MR DE 4KQU K
 NP2QS DE J4Q. QSA 1 QSA ? K
 R QSA 2 K
 R
 R HR WK NR 35 K
 N WK NR 080. K
 R U 2130 COMM GL5W K
 R OK
 HR KP U K
 R QSA 1 K
 R HR WK NR 35 K
 R U 2130 COMM B5.M K
 R HR KP U K
 R
 VV GS7W DE 4KQU K
 R J2QS DE BBUW R QSA 2 QSA ? K
 R QSA 2 K
 R
 R HR WK NR 35 K
 R HR WK NR 0127 K
 R U 2130 COMM DIUO
 R
 HR KP U K
 R R



M95

5678 kHz, 05-02, 2345 UTC, i.p.

05 05 05 05 05

VV A

..NR .. GT 37652367D

7553 kHz, 06-02, 0945 UTC, i.p.

N35 447 4DD 4D6 (Cont'd)

NR 119 CK .25 35 0.06 0705

34D UT3 .3U4 3A4 773 354 U46 (Cont'd)

8073 kHz, 06-02, 0006 UTC

V BNGC (x3) DE XSV85 (x2)

HR 7GS GA PSE CY (0007z)

NR 0105 CK 96 35 0206 0704 =

TT6 3U4 3A4 TAU 773 TA7 773 356 4T3 NN3 (Cont'd)

AR

A HR 7G GA

NR 0106 CK 48 35 0206 0710 =

TTU N5U TT6 N53 TT6 N54 7TT TA5 746 7T5

77T DN3 7T7 TAU 773 TA7 773 TAD 773 TAN

773 TUT 773 TUA 773 TUU 773 TU3 773 TU4

773 TU5 773 TU6 773 TU7 773 TUN 773 T3T

773 T4U 773 7AN 7AD N47 3A4 7U5 AR

7G 7G AGN

NR 0105 CK 96 35 0206 0704 =

TT6 3U4 3A4 TAU 773 773 (Cont'd repeat messages)

8073 kHz, 06-02, 1139 UTC

V BNGC (x3) DE XSV85 (x2)

HR MSGS GA PSE CY

NR 0107 CK 26. 35 0206 1549 =

TT6 3U6 3AN 3U7 TAU 773 TA7 773 35U (Cont'd)

AR

AS A HR 7G

NR 0108 CK 46 35 0206 1559 =

TTU N5A TT6 N53 TAD N54 7TT TA6 746 (Cont'd)

8073 kHz, 07-02, 1140 UTC

V BNGC (x3) DE XSV85 (x2) (Switched to CW - Cont'd - Handsent - 1140z)

HR MSGS GA PSE CY (1141z)

NR 0111 CK 300 35 0207 1609 BT

TT7 3U6 3AN 3U7 TAU 773 TA7 773 35U (Cont'd - 1142z)

AR (1156z)

A HR MSG GA

MSG NR 0112 CK 42 35 0207 1609 BT

TTU N5U TT7 N53 TAD N54 7TT TAD 746 7T5

77T DN3 7T7 TAU 773 TA7 773 TAD 773 TUA

773 TUU 773 TU3 773 TU4 773 TU5 773 TU6

773 TU7 773 TUN N34 T43 773 7AN 7AD N47

3AN 7U5 AR (1159z) (Switched to voice - USB - Male opr - 1200z)

4243 kHz, 07-02, 1219 UTC, i.p.

336 N3U 446 4D3 3DA 336 N3U 3DU 5AA 75U 35A (Cont'd)

III 336 N3U 445 3.N 35A N3D 353 4NN 445 34T

N3U 446 TT5 773 N44 5AA 75U 3U7 35A U4T

353 4AA 445 336 N3U 446 3UD 35A .4T 353

4AA 336 N3D 4TA 446 .36 N3U 445 3UN 35A

N3D 353 4TN 445 34T N3U 446 AR

A HR MSG GA

NR 043 1K EEE

NR 043 CK 15 35 0207 1630 =

UT5 TT7 3U6 3A4 TTA TTU TT3 773 35U DN7

353 4AA 436 4D3 3DU AR

NR 043 CK 15 35 0207 1630 BT

UT5 TT7 3U6 3A4 TTA TTU TT3 773 35U DN7

353 4AA 436 4D3 3DU AR

A HR UP SB W K

Switched to V26 at 1226 UTC

Note: This appears to be a new M95 station, as message number differs from current XSV70 and XSV85 message numbers

8073 kHz, 07-02, 0005 UTC

V BNGC (x3) DE XSV85 (x2)

HR MSGS GA PSE CY

HR MSG GA

NR 0109 CK 96 35 0207 0700 =

TT7 4U4 EEEEE HR AGN

Q 7G AGN

NR 0109 CK

7G AGN

NR 010 EEEEE

NR 0109 CK 96 35 0207 0700 =

TT7 3U4 4A4 TAU 773 TAD 773 355 4TU NN3 (Cont'd)

AR

AHR 7G GA

A HR MSG GA

NR 0110 CK 46 35 0207 0708 =

TTU N5U TT7 N53 TT6 N54 7TT TA7 746 7T5

77T DN3 7T7 TAU 773 TA7 773 TAD 773 TAN

773 TUT 773 TUA 773 TUU 773 TU4 773 TU4

773 TU5 773 TU6 773 TU7 773 TUN N34 T43

773 7AN 7AD N47 3A4 7U5 AR

7G AGN

7G AGN

NR 0109 CK 96 35 0207 0700 =

TT7 3U4 3A4 TUU 773 (Cont'd)

4284//7554 kHz, 08-02, 0918 UTC

V BNEC (x3) DE XSV70
HR MSG GA PSE CY
NR 116 CK 197 35 0208 152.
34D .3TTD 3U6 3A4 (Cont'd)
A HR MSG GA
NR 117 CK 245 35 0208 1523
34D UT3 TTD (Cont'd)
A HR MSG AGN
HR 117 CK 245 35 0207 1523
34D UT3 TTD 3U6 TT4 773 (Cont'd)
A HR MSG GA
NR 115 CK 107 35 0208 0655
34D ..3 TTD 3U4 3A4 (Cont'd)
A HR MSG AGN
NR 115 CK 07 35 0208 0655
34D UT3 TTD (Cont'd)
ZNN SK

8073 kHz, 08-02, 0005 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 0113 CK 34 35 0208 0705 =
TTU N5U TTD N53 TT6 N54 7TT TAN 746 7T5
77T DN3 7T7 TAU 773 TUU 773 TU4 773 TU5
773 TU6 773 TU7 773 TUN N44 T33 773 7AN
7AD N47 4A4 7U5 AR
MSG AGN NR 0113 CK 34 35 0208 0705 =
TTU N5U (Repeats message)
AR
A HR MSG GA
NR 0114 CK 118 35 0208 0707 =
T.. 3U4 3A4 TAU 773 35U 4T3 (Cont'd)

4283//7553 kHz, 10-02, 0934 UTC, i.p.

453 3AN 454 365 4AD 447
MSG AGN
NR 114 CK 194 35 0209 1556
3.. UT3 TAT .U6 TT4 (Cont'd)
NR 121 CK .1 35 0211 ...
34D TT3 (Cont'd)
AGN
NR 121 CK 91 35 0210 0505
3.D U.4 (Cont'd)
ZNN VA

9152 kHz, 11-02, 0935 UTC, i.p.

773 3Ad 357 4AD 446 467 4D6
MSG AGN
NR 126 CK 256 35 0211 1615
34D .3 T.. 3U6 TT4 773 3AD 454 (Cont'd)
MSG AGN
NR 124 CK 134 35 0211 1715
34. UT4 TAA .U4 3A. TT4 773 (Cont'd)
ZNN SK

4243//9054 kHz, 12-02, 1157 UTC, i.p.

34T N3U 3D5 TT5 773 N44 5AA 75U 36A 336
AR A HR
U PSE WK AR AR AR
Switched to V26 at 1205 UTC

8073 kHz, 10-02, 0006 UTC

V BNGC (x3) DE XSV85 (x2)

4243//9054 kHz, 12-02, 1148 UTC, i.p.

TTU TT3 7.. 344 63D 333 U33 (Cont'd)
AR
A HR 7G GA
NR 0050 CK 17 35 ... 2163..
UT5 ..3U6 7.TTA TTU TT3 773 4AA (Cont'd)
AR
A HR 7G AGN
NR 0051 CK 223 5 020 EEEE
NR 0051 CK 22 35 0212 1640 =
UT5 TAU 3U6 3A4 TTA TT. TT3 T.. 335 3.. (Cont'd)
AR
A HR 7G
NR 24 CK .79 35 02821652 =
...3T 3 47TU NTA 7TN 73U 336 N3U 7A3 (Cont'd)

8073 kHz, 12-02, 0006 UTC, i.p.

NR 0124 CK 109 35 0212 0714 =
TAU 3U4 3A4 TAU 773 357 (Cont'd)
III = = 773 353 37U 4T4 NN3 445 3DU 4DT 4D6 AR AR
MSG AGN
NR 0124 CK 109 35 0212 0714 =
TAU 3U4 3A4 TAU 773 357 (Cont'd repeat message)
AR AR
Switched to V26 at 0021 UTC

8073 kHz, 12-02, 1140 UTC, i.p.

NR 0125 CK 252 35 0212 1545
NR 0125 CK 252 35 0212 1545 = =
TAU 3U6 3AN 3U7 TAU 773 TA7 773 TAD (Cont'd)

8888 kHz, 12-02, 1029 UTC, i.p.

TT5 34U N3D 4T3 NN3 447 46D 3D4 4DT 4D7 TUT 773 356 36T
(Cont'd)
/?/EEEE ? ? ? ? = ? = ? M
... 437 773 TTA 3DI AR AR AR SK SK SK

8073 kHz, 13-02, 1140 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY
NR 0128 CK 30 06 35 0213 AT5 =
TA3 3U6 4AN 3U7 TAU 773 347 (Cont'd)

4243//9054 kHz, 13-02, 1149 UTC (no callsign sent)

ONMR PSE CY
NR 081 CK 22 35 0213 1528 =
5TD UTT TA3 3U6 7TA T54 3A4 354 377 4TA
47U N4A 447 46D 3D4 TTU TT3 773 44D 47T
3D6 4D3 AR
MSG AGN
50D UTT TA3 (Cont'd repeat message)
AR
A HR MSG GA
NR 26 CK 135 35 0213 1603 =
UTU TA3 3U6 3A4 7TU 7TA 7T7 73U TT5 TTU 773 354 (Cont'd)

7777 kHz, 13-02, 2325 UTC, i.p.

773 TA7 773 TU5 773 357 (NA
CBG DE XSV85 HR MSG GA CY (Called away)
TT HR MSGS GA PSE CY
R R R NR 01234 CK 105 35 0UU.
NR QSL 1237 QST
AAM QSA 3 QSA ? K K
R R OM EEEEE QSA 4 K K
R R T IEC IEC BT 1236 K
W AR AR .. EEEEE IEC 8897 AR K K
R R HR NR 232.
R R A R R T TH. HR

8073 kHz, 14-02, 1156 UTC

V BNGC (x3) DE XSV85 (x2)
HR 7G GA
NR 0132 CK 38 35 0214 1536 =
TTU N5U TA4 N43 TAD N54 7TT TT4 746 7T5
7TA 4TA N7D N35 7T5 4TN NAN N57 7T. TAU
773 T.. 773 TAD 773 TAN 773 TUT 773 7NN
D3A N56 4TN 777 7AD N47 3AN 7U5 AR
A HR AS 7G GA
NR 133 CK 31 035 0214 1556 =
TA4 3U6 3AN 3U7 TAU 773 357 (Cont'd)

4243//9054 kHz, 14-02, 1145 UTC, i.p.

Y R PSE CY
BT D EEEE NR 083 21 35 0214 15 EEEE
NR 083 22 EEEE
NR 083 21 35 0214 1546 =
DUT TTA 43U 67T AN4 43A 435 353 377 4A5 U7U
N4A 446 3DU TTU TT3 773 447 46D 3D5 4D3 AR
A HR MSG GA
NR 28 136 35 02A4 A63A
UTU TA4 3U6 3A4 7TU 7TA 7T7 73U 7UT TTU
773 35A U4T 353 4TA 446 77A 437 4D6 3D3
TT3 773 35A U4T 353 4TA 44D 336 N3U 447 4D6
3D5 336 N3U 447 4D6 3D5 (Cont'd)
(Switched to XSV85 Sked)
NR 073 19 35 03 EEEE
NR 073 19 35 0214 1650
UT5 .43 U67 TAT TAT TUT T3773 4TA 44.
336 DA5 N34 447 33U N3U 436 DD7 NT6 AR
A HR MSG GA
NR 072 24 35 0 214 1650
UT5 TA4 3U6 3A4 TT. TTU TT3 773 35U U4T
453 4TA 44D 336 N ? DA5 D? N344 47 33U
N3U 436 4D6 3D4 N3D 3D3 AR
A HR W
A HR
U PSE B GA KC

8060 kHz, 15-02, 0011 UTC, i.p.

05 05 05 (Cont'd)
= III AR

8073 kHz, 15-02, 0012 UTC, i.p.

CK 38 35 0215 0708 =
TTU N5U TA5 N54 TT6 N54 7TT NT5 746 7T5 77T (Cont'd) AR AR
Switched to V26 at 0015 UTC

9054 kHz, 14-02, 2350 UTC, i.p.

R MSG TO YR PSE CY (No callsign sent)
NR 074 1. 35 35 0215 0620 =
25.5 3U4 3A4 ..T TU TT3 773 35U 4A5 436 4D6 (Cont'd)
AR
MSG AGN
NR 074 CK 1. 35 0215 0620 =
6T5 3U4 3A4 TTA TTU TT3 773 35U 4A5 436 4D6 3D3 AR (2354z)
A HR 7G GA
NR 074 CK A0 35 0215 0620 =
NR 074 CK A85 35 0215 061. =
U6. 3U4 7T5 .. TTA TTU TT3 (Cont'd)
7G AGN
A HR T75A 5.

8073 kHz, 15-02, 0202 UTC, i.p.

NIL SK GB

8073 kHz, 15-02, 1206 UTC, i.p.

777 3TU N77 445 337343 NN3 446 467 3D5 4D6 D6T
N34 T33 773 353 373 (Cont'd)
III BT 35D 4A7 NN3 446 3D3 4D3 (Cont'd)
AR
A HR 7G AHR 7G
A HR 7G GA
NR 0137 CK 44 35 0215 1616 =
TTU ... (Cont'd) AR
Switched to V26 at 1219 UTC

9054 kHz, 15-02, 0001 UTC, i.p.

NR 075 CK 25 35 0215 0722 =
5TA5 3U4 763 7TA TTA TTU TT3 773 4TA (Cont'd)
NR 29 CK 54 35 0215 0813 =
... 3A 47U 773 35A U4T (Cont'd)

8073 kHz, 16-02, 1140 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY (1142z)
NR 0140 CK 32 35 0216 1619 BT
TTU N5U TA6 N54 TAD 647 TTT TU7 46 7T5 77T
DN3 7T7 TUA 773 TUU 773 TU4 (Cont'd) AR
A HR 7G GA
NR 0141 CK 331 35 0216 1622 BT
TA6 3U6 4AN 3U7 TAU 773 357 47U 4T3 NN3 (Cont'd)

4243//9054 kHz, 16-02, 1148 UTC, i.p.

CY NR 087 CK AM
835 0214 EEEEE
NR 087 CK 28 35 0216 1520 =
5TU.. 3U6 3A4 35U 4A5 N3D 4AA U7U N4A 443 53D
A33 6DA 5N3 444 43D ATT UTT3 773 436 3D3 DA5 N34 435 3DU 4D3
AR
7G AGN
NR 087 CK 28 35 0216 1520 =
57U TT. 53U 63A 435U 4A5 N3D 4AA U7U N4A 435 3DA 336
DA5 N34 444 3DA TTU TT3 773 436 3D3 DA5 N34 435 3DU
4D3 AR
A HR 7G GA
NR 080 CK 21 35 0216 1532 =
..5 3U T5 3A4 TTA TTU TT3 773 35U (Cont'd) AR
7G AGN
NR 080 CK 21 35 0216 1532 = (Repeats message) AR

8073 kHz, 17-02, 1137 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY CY
MSG NR 0144 CK 238 35 0217 1549 = =
TA7 4U6 3AN 3U7 TAU 773 TA7 773 354 35N (Cont'd) AR
NR NR 0145 CK 22 35 0217 1605 =
TTU N5U TA7 (Cont'd)

4243//9054 kHz, 17-02, 1146 UTC

VVV VVV HR MSG TOW EEEEE
HR MSG TOYRSE CY
NR 089 CK 19 35 0UA7 A5AU =
STD UTT TA6 3U6 3A4 35U 4AA N3D 4A5 U7U
N4A 435 3DA TTU TT3 773 436 3D3 4D3 AR
MSG AGN
STD UTT TA6 3A4 35U 4AA N3D 4A5 U7U
N4A 435 3DA TTU TT3 773 436 3D3 4D3 AR
A HR MSG GA
NR 34 CK 140 35 0.A7 A6T3 =
UTU TA7 3U6 3A4 TTU 773 357 35A N3D (Cont'd)
AR
A HR MSG GA
NR 083 CK 1N 35 AUA7 .649
UT5 TA7 3U6 3A4 (Cont'd)
AR
MSG AGN
NR 083 CK 19 35 0UA7 A64.
UT5 TA7 3U6 3A4 (Cont'd)
AR
A HR UP SB W K

8073 kHz, 18-02, 1150 UTC

V BNGC (x3) DE XSV85 (x2)
HR 7GS HR 7G S
GA NR 0147 CK 49 35 0218 1541 =
TTU N5U TAD N54 TAD N5. 7TT (Cont'd)
AR
HR 7G AGN
NR 0147 CK 49 35 0218 1541 =
TTU N5U TAD N54 TAD (Cont'd)
AR (
A HR 7G GA
A HR 7G GA
NR 0148 CK 26. 35 0218 1605 =
TAD 4U6 3AN 3U7 TAU 773 TA7 773 357 (Cont'd)

4243//9054 kHz, 18-02, 1145 UTC. No callsign

7G NR 091 CK 21 35 0218 1.16 =
AR
7G AGN NR 091 CK 21 35 0218 1.16 =
STD UAT (Cont'd)
A HR 7G PSE CY
NR 086 CK 1.35 0218 1656 =
UT5 (Cont'd)
AR
A HR 7G GA
NR 36 CK 075 35 0218 1735 =
UTU TAD 3U6 (Cont'd)

8073 kHz, 19-02, 0006 UTC

V BNGC (x3) DE XSV85 (x2)
MSGS GA PSE CY
NR 0149 CK 13. 35 0219 0705 =
TA. 3U4 4A. (Cont'd)
AR
A HR 7G GA GA
NR 0150 CK 48 35 0219 0711 =
TTU N.. TAN N53 TT6 (Cont'd)
AR

8073 kHz, 19-02, 1150 UTC

V BNGC (x3) DE XSV85 (x2)
A HR 7GS GA
NR 0151 CK 330 35 0219 1614 =
TAN 3U6 3AN 3U7 TAU 773 TA7 773 354 (Cont'd)

9054 kHz, 19-02, 0002 UTC, i.p.

773 357 4TN 34T
AR
A HR UP SB TWK

8073 kHz, 20-02, 0006 YTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA
NR NR NR 0153 CK 106 35 0220 0714 = =
TUT 4U4 4A4 TAU 773 TA7 773 454 (Cont'd)
AR
HR AHR 7G AGN
NR 0153 CK 106 35 0220 0714 =
TUT 4U4 3A4 TAU 773 TA7 773 454 (Cont'd repeat message)
AR
A HR MSG GA
NR NR 0154 CK 46 35 0220 0715 =
TTU N5U TUT N53 TT6 N54 7TT TT4 746 7T5 (Cont'd)
AR
A HR 7G GA
A HR MSG GA
NR NR 0154 CK 36 35 0220 0715 =
TTU N5U TUT N53 TT6 N54 7TT TT4 (Cont'd repeat message)
AR
Switched to V26 at 0022 UTC

9054 kHz, 20-02, 2347 UTC

V VVV HR 7G GA CTR ...
A HR 7G GA CY R PSE CY
NR 093 CK 19 35 0221 0557 =
UT5 TUA 3U4 3A5 TTA TTU TT3 773 (Cont'd)
AR
7G AGN NR 093 CK 19 35 0221 0557 =
UT5 TUA 3UA (Cont'd repeat message)
AR
A HR 7G GA NR 096 CK 21 35 0221 0743 =
5.3 U7. TUA 3U4 3A4 35U N3D (Cont'd)
AR
A HR 7G AGN NR 096 CK 21 35 0221 0743 =
57U TT TUA 3U4 3A4 35U (Cont'd)
AR
A HR 7G GA
NR 41 CK 096 35 0221 0726 =
WUTUA 34? 3U4 3A4 7T 773 35A (Cont'd)

8073 kHz, 21-02, 0008 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 0157 CK 141 35 0221 0711 =
TUA 3U4 3A4 TAU 773 TA7 773 TU4 773 357 (Cont'd)
AR AR
A HR MSG GA
NR 0158 CK 30 35 0221 0716 =
TTU N5U TUA N53 TT6 N54 7TT TT6 746 7T5 77T (Cont'd)
AR
MSG AGN
NR 0157 CK 141 35 0221 0711 = =
TUA 3U4 3A4 TAU 773 TA7 (Cont'd repeat messages)

9054 kHz, 21-02, 2340 UTC, i.p.

AR
7G AGN NR 41 CK 096 35 0221 0726 =
UTU 354 3A4 777 334 (Cont'd)
AR
A HR UP SB WK
Switched to V26 at 0030 UTC

9054 kHz, 21-02, 2351 UTC, i.p.

UUT6 UU UT5TUU3U 43A 4TT A TTU 73 773 357 37U
4AA 446 336 N3D 4TA436 467 46D UN3 D3D 3A5 AR
7G
NR 09D 35 35 00UU T6.N =
STD TTT UU3 U47 TT7 TAN 443 A43 543 73N 3D3 (Cont'd)

5192 kHz, 22-02, 1329 UTC, i.p.

NR 4507/EX TIME 2140 RMKS 2801268 TO 2801264 =
AB2/CQ4 AR
FF NR 3507/EX TIME 2140 RMKS 280128 TO 2801264 AR EEE =
ABW/CQ4 AR QSL ? K
R QSL 2133 2133 K (Both stations on this frequency)
R GA K
R FFF NR 7491/EX TIME 2144 RMKS 2801264 TO 2801268 =
C55/DQ6 AR
FF NR 7491/EX TIME 2134 RMKS 2801264 TO 2801268 =
C55/DQ6 AR
FF NR 7491/EX TIME 2134 RMKS 2801264 TO 2801268 =
C55/DQ6 AR QSL ? K
R QSL 2137 QSL 2137 K
R U MSG GA K
MSG NR 3508 CK 100 98 0222 2130 RMKS 2801268 TO 2801264 =
63NT UD45 A7UN (Cont'd)
AR QSL ? K
R QSL 2142 2142 K
GA K
R MSG NR 7492 CK 100 98 0222 2130 RMKS 2801264 TO 2801268 K
R GA K
R GA
R BT DN7T T6DN (Cont'd)
AR QSL? K
R QSL 2146 QSL 2146 K
R OK K EEEE USB WK U SB WK K

8073 kHz, 23-02, 1139 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 0167 CK 255 35 0223 1626 =
TU3 3U6 3AN 3U7 TAU 773 TA7 773 TU5 773 4T5 437 3 4T3 NN3
(Cont'd)
AR
A HR MSG GA
NR 0168 CK 37 35 00U3 EEEEE
NR 0168 CK 37 35 0223 1630 =
TTU N5U TU3 N53 TAD N54 7TT TT4 746 (Cont'd)

8888 kHz, 23-02, 1118 UTC, i.p.

447U 5D7U D5DU AUAT U745 UU7A 4UA6 74
H NR NR 0048 CK EEEE
NR NR 00 EEEEE
NR NR 0048 CK 100 24 0215 1044 RMKS 1401 TO 1504 AR K
NR 0167 CK 255 35 0223 1626 = =
75AU DN7D IIII = III = NA NA5. 7DN4 T5U74 A54A 44DT (Cont'd)
NR 0167 CK 255 35 0223 1626 = =
TU3 3U6 3AN 3U7 TAU 773 TA7 773 TU5 773 354 473 4T3 NN3 44D
46N (Cont'd)
III =
05 05 05 05 (Further proof that 05 Stations are lined to M95)
NR 0167 CK 255 35 0223 1626 = =
TU3 3U6 3AN 3U7 TAU 773 TA7 773 TU5 773 354 373 4T3 NN3
(Cont'd)

4243//9054 kHz, 23-02, 1150 UTC

NR 0218 49 0222 1040 =
76U6 U6N... N7U TN3 N44 UN6 (Cont'd)
AR A HR MSG GA
NR 021 84 EEEE
NR 0218 49 EEEEE
NR 001 22 35 0223 1057 =
TUT TU3 3U6 7T3 7TA N44 (Cont'd)
AR A HR MSG GA
NR 002 13 35 0223 1616 =
UT5 TU3 3U6 3A4 TTA TTU TT3 773 35U (Cont'd)
AR A HR MSG GA
NR 46 143 35 0223 1719 =
BT UTU TU3 3U6 3A4 TTU 773 35A U4T (Cont'd)

9054 kHz, 23-02, 2351 UTC, i.p.

N4U TT4 TT4 44N 45T 434
AR 7G AGN
NR 002 CK 18 49 0222 0602 T63 N44 (Cont'd)
AR
A HR MSG GA
NR 003 CK 13 35 0224 0627
TU6 TU4 3U4 3A4 (Cont'd)
AR
AGN AGN
NR 003 CK 13 35 0224 0626 =
UT. TU4 3U4 3A4 (Cont'd)
AR
MSG MSG GA
NR 002 CK 19 35 0224 0054 =
TU. TKA. TTT N35 TU7 (Cont'd)
AR

8073 kHz, 24-02, 0010 UTC

773 TU6 773 354 373 (Cont'd)
AR
MSG AGN
NR 0.69 CK 10. 35 0224
MSG NR 0169 CK 104 35 0224 .103 =
66. T.4 3U4 3A4 TAU 773 TA. (Cont'd)

8073 kHz, 24-02, 1138 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 0171 CK 42 35 0224 1609 =
TTU N5U TU4 N53 TAD N54 7TT TT6 746 (Cont'd)
AR
HR 7G GA
NR 0172 CK 292 35 0224 1610 =
TU4 4U6 3AN 3U7 TAU 773 TA7 773 354 (Cont'd)

9054 kHz, 24-02, 0011 UTC

AR 7G AGN
NR 002 CK 19 35 0224 0054 =
..5 TTD U..TU4 (Cont'd)
AR
A HR MSG GA
NR 4. CK 02. 35 0224 0618 =
ATU TU. 3U4 (Cont'd)
AR
7G NR 47 CK 029 35 0224 0.18 =
U6. TU. (Cont'd)
AR
A HR U PSE D WK

4243//9054 kHz, 24-02, 1145 UTC

HR 7G RPT PSE CY
NR 02 CK 18 49 0222 1030 =
T76 U6N ND6 N7U (Cont'd)
AR
A HR 7G GA
NR 03 CK 17 35 0224 1530 =
5TD UTT TU4 3U6 3A4 354 4A3 (Cont'd)
AR
A HR 7G GA
NR 47 CK 104 35 0224 1607 =
UTU TU4 3U6 3A4 TTU 773 35A N3D 353 4TA 34U (Cont'd)

8073 kHz, 26-02, 0007 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSG GA PSE CY (0008z)
NR 0177 CK 122 35 0226 0715 =
TU6 3U4 3A4 TAU 773 TA7 773 TU3 773 354 (Cont'd)
AR
A HR 7G AGN
NR 0177 CK 122 35 0226 0715 =
TU6 3U4 3A4 TAU 773 TA7 773 TU3 773 354 (Cont'd repeat message)

9054 kHz, 27-02, 0002 UTC, i.p. end of 26-02 traffic

AR
A HR UP SB WK

Switched to V26 at 0005 UTC

8073 kHz, 26-02, 1140 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 0179 CK 336 35 0226 1602 = =
TU6 3U6 4AN 3U7 TAU 773 454 474 (Cont'd)
AR
7G AGN
NR NR 0180 CK 42 35 0226 1609 = =
TTU N5U TU6 N53 TAD N54 (Cont'd)

Switched to V26 at 1204 UTC

4243//9054 kHz, 26-02, 1144 UTC

VV HR MSG TOY R PSE CY
NR 007 21 35 0226 1512 =
5TD UTT TU6 4U6 3A4 35U N4D 353 4TN
N3D 4TA U7U N4A 444 3DA TTU TT3 773
435 3DU 4D3
A HR MSG GA
NR 52 115 35 0226 1614
UTU TU6 3UT 53A 4TT UN 44TT3 773 35A N3D
353 4AA 336 N3D 4T3 445 4D3 3.A TT5 773
35A N3D 353 4TN (Cont'd)
AR
A HR UP SB WK

Switched to V26 at 1203 UTC

9054 kHz, 26-02. 2346 UTC

VVV VVV HR MSG OTY RPSE CY
NR 008 CK 20 35 0227 0634 =
5TD UTT TU7 3U4 3A4 353 N3D 354 35D 4TA
U7U N4A 434 3DA TTU TT3 773 446 3D3 4D3 =
4D3 EC
7G AGN
NR 008 CK 20 35 0227 0634 =
5TD UTT TU7 3U4 3A4 353 N3D 354 35D 4TA
U7U N4A 434 3DA TTU TT3 773 446 3D3 4D3 AR
A HR MSG AGN GA
NR 012 CK 14 35 0227 0636 =
UT5 TU7 3U4 3A4 TTA TTU TT3 773 353 U4T
35U 4UT 445 4D3 3DA AR
MSG AGN
NR 012 CK 15 35 0227 0636 =
UT5 TU7 3U4 3A4 TTA TTU TT3 773 353 U4T
35U 4UT 445 4D3 3DA AR
A HR GA
NR 53 CK 040 35 0227 0734 =
U.. TU7 3U4 3A4 TTU (Cont'd)
AR
7G GA AGN
NR 53 CK 040 35 0227 0734 =
UTU TU7 3U4 3A4 (Cont'd)

8073 kHz, 27-02, 1141 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 0184 CK 290 35 0227 1540 =
TU7 3U6 (Cont'd)

8073 kHz, 27-02, 0006 UTC

V BNGC (x3) DE XSV85 (x2)
 HR 7GS GA PSE CY
 HR 7GS GA PSE CY
 NR 0181 CK 108 35 0227 0718 =
 TU7 4U4 4A4 TAU 773 TA7 773 TAD 773 TU4 773 457 (Cont'd)
 AR
 7G AGN (x5)
 NR 0181 CK 108 35 0227 0718 =
 TU7 3U4 A4 TAU 773 TA7 773 TAD 773 TA3 773 (Cont'd)
 AR
 A HR 7G GA (x3)
 NR 0182 CK 42 35 0227 0722 =
 TTU N5U TU7 N53 TT6 (Cont'd)
 AR
 7G AGN (x3)
 NR 0182 CK 32 35 0227 0722 =
 TTU N5U TU7 N53 TT6 (Cont'd repeat message)
 AR AR

Switched to V26 at 0025 UTC

9054 kHz, 27-02, 1148 UTC

VV HR TO OYR PSE CY
 NR 009 CK 26 35 0227 1520 =
 5.U TTU 3A4 353 (Cont'd)
 AR
 A HR 7G GA
 NR 54 CK 161 35 0227 1626 =
 UTU TU7 3U6 3A4 TTU N44 TT3 773 357 (Cont'd)



UM02

10470 kHz, 10-02, 0129 UTC

VVV (Cont'd)
 CQ DE YRM (Cont'd)
 QSV K
 QSV K
 QSV K
 4OI 4OI 4OI
 QSV K
 4OI
 DE
 4OI
 ROZ ROZ ZNN VA

10470 kHz, 18-02, 0129 UTC

VVV
 CQ DE YRM QSV K
 QSV K QSV K QSV K QSV K QSV K
 XRJ
 KLF
 DE
 KLF KLF KLF
 R
 ZNN ZNN
 VA
 EE
 QSV K
 DE
 XRJ XRJ
 R
 ZNN ZNN
 VA VA
 DE
 HOI HOI HOI

10470 kHz, 12-02, 0130 UTC

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

10470 kHz, 15-02, 0132 UTC

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

10470 kHz, 19-02, 0131 UTC

VVV CQ DE YRM QSV K
 VVV CQ DE YRM QSV K
 XRJ XRJ XRJ
 DE
 XRJ
 XRJ ZNN
 ZNN
 VA
 VA
 VVV CQ DE YRM QSV K
 VVV CQ DE YRM QSV K
 VVV CQ DE YRM QSV K
 VVV CQ DE YRM QSV ZAN ZAN VA I
 VVV ROZ ROZ
 VVV ROZ ROZ
 VVV ROZ ROZ
 VVV ROZ ROZ
 VVV CQ QSV
 ROZ ROZ
 VVV CQ QSV K
 DE
 ROZ
 VVV CQ QSV K
 VVV KLF
 KLF
 R
 ZNN
 VA II
 VVV ROZ ROZ
 ROZ ROZ QSV K
 VVV ROZ
 ROZ
 R
 ROZ
 R
 ZNN
 VA I

10470 kHz, 26-02, 0130 UTC

VV ROZ ROZ
 VVV CQ DE YRM
 QSV K
 VV ROZ
 KLF
 KLF
 R
 ZNN
 R
 VA I
 ROZ
 DE
 VVV CQ DE YRM QSV
 VVV CQ QSV K
 VOI
 XRJ ZNN VA I
 VVV CQ DE YRM QSV K
 QSV K
 DE
 ROZ
 R
 ROZ
 QSV
 VVV ROZ ROZ
 VVV CQ DE YRM ZAN ZAN VA I

**UM10 - 10-minutes net**

4310 kHz, 05-02, 1719 UTC: JZZN //3531 kHz. New frequency and callsign
 4310 kHz, 05-02, 1746 UTC: JZZN //3531 kHz
 4310 kHz, 06-02, 1613 UTC: JZZN //3531 kHz
 4310 kHz, 12-02, 1743 UTC: JZZN //3531 kHz
 4310 kHz, 15-02, 2018 UTC: JZZN
 3975 kHz, 16-02, 1810 UTC: VI4T (New frequency)
 4310 kHz, 19-02, 1818 UTC: JZZN //3531 kHz
 4310 kHz, 19-02, 2249 UTC: JZZN //3531 kHz
 4310 kHz, 24-02, 2011 UTC: JZZN

DIGITAL MODES



HM01

Dirección General de Inteligencia

HM01 oddities

11435 kHz, 04-02, 1557 UTC: 36554 86618 17854 54704 83216 80 then off 1553z, then 36555 86619 17855 54705 83217 38021

11435 kHz, 04-02, 1600 UTC: Radio Havana briefly followed by 36556 65201 17856 54706 83218 38022

11435 kHz, 23-02, 1600 UTC Radio Havana on and off several times. No HM01 transmission

M42 & X06



Modes:

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

Russian Government & Intelligence



The Russian diplo/intelligence stations were very active this month. Thanks to our contributors for logging them!!

M42 – various modes

Freq	Date	UTC	Details	Mode
5080	1-2	1807	TDI TDI TDI DE RTK RTK QSA? K. QSA 4 QTC. NR 4/1 GR 59 1?2 2100 = UCHETNAYA = 47645 62347 97876 ... 36545 56189 86759 = + TU NIL GB 73	CW
5225	26-2	0556	RVR39 wkg RTW54. Russian PtP net	RUS-ARQ 100/500
9171	9-2	1515	Russian diplo. 11100 50080 42587 09004 04009 5555 21526 68413 04228 ... 49506 05046 77149 + Opchat in CW	FSK 75/500

5080 kHz, 01-02, 1807 UTC, CW

TDI TDI TDI DE RTK RTK QSA? K

QSA 4 QTC

NR 4/1 GR 59 1?2 2100 = UCHETNAYA =

47645 62347 97876 31298 90887 34784 82649 17342 43578 64532

91320 63277 53243 49325 60985 89667 89175 56431 48659 71264

21093 56435 45378 80879 52607 13782 90782 43165 57479 76548

54106 87096 45609 32045 79086 39433 42135 18299 59836 14328

98076 65734 94230 30428 67852 76549 12554 42154 75689 21873

54873 98162 22140 87894 78763 63427 36545 56189 86759 = +

TU NIL GB 73

9171 kHz, 09-02, 1515 UTC, FSK 75/500, i.p.

35551 01872 08311 17257 83542 36851 08226 91418 74837 33555
81843 54818 92532 46106 68015 17909 44822 70147 93279 82952
35897 91057 81663 71806 48648 91239 59907 25777 12633 83685
94025 02189 55727 63999 18162 27398 62907 98059 48661 22909
90601 87513 45304 30299 10044 80300 02640 61621 78066 18369
87350 79996 58773 39794 92596 40054 44532 77486 93255 42936
49717 21649 27034 85530 75640 38214 55337 08639 70136 60408
89882 73747 30152 39657 55959 23105 20921 15011 08298 02791
10021 17268 02461 53455 39830 85003 33720 98418 86802 74675
76333 83834 80989 07999 89176 50577 84256 56778 18656 42561
50629 38388 62840 81175 17206 64078 81767 60518 99075 07305
07830 43114 86668 84265 17206 60812 68997 63829048265 50551
31211 49053 77177 79662 99895 97456 91573 40429 34577 72267
08493 18554 88844 41801 47046 65251 89546 69179 42247 2-636
07485 59562 90637 17100 18057 57093 03746 20368 79267 08733
96023 82912 47568 37181 18187 19421 88618
0061 71908

5555

11100 50080 42587 09004 04009

5555

21526 68413 04228 56339 26239 52451 47835 45656 46679 65064
44666 87755 91457 44261 67589 63354 54432 22723 65024 20387
65501 54228 42758 73473 90583 35342 72437 10115047722 54664
86152 00934 65894 44993 51118 49491 13253 65523 07032 57365
66593 67047 41749 71131 61227 87202 32257 31677 45668 13824
39231 42195 65555 51663 22952 57033 72953 31342 73623 33226
22621 91543 12790 92567 37838 92834 45633 85553 43578 71557
51748 52695 95626 18518 66257 54937 06076 28408 08216 77556
14785 52638 85049 45922 41954 84239 09197 61524 12880 97528
37959 53858 27542 38575 76752 23958 61335 67952 90149 05376
90562 97429 39526 77690 27383 76712 56648 73491 46513 16892
78668 57517 17315 87757 23146 64621 60711 78752 79860 27534
91072 82352 56510 28464 18865 74754 33838 09733 48383 21828
26626 37429 97577 24252 48240 34841 89565 64321 21942 58947
63042 58226 36029 06323 32479 44262 37528 97217 02779 51043
61962 56955 59329 57083 70503 34444 13679 66474 92633 48386
72929 42873 67975 96832 34655 34062 72573 83369 24780 99661
31362 85362 68783 49236 85399 29586 65218 71602 49635 36355
22339 79956 76544 47641 99435 12935 72434 11122 86747 66086
64743 80935 52490 65367 97745 94494 55953 28346 72397 92917
47932 09797 76414 33883 72225 51773 97928 43246 29456 52657
85372 66595 73416 65581 22648 94716 45824 90572 45946 61436
72144 67437 90912 89658 34533 09311 20156 34236 91562 69843
70381 11766 34252 55081 03488 96269 61764 60734 03837 42237
91236 23275 53555 50775 49795 62665 92994 85355 13405 27441
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22665 77165 90547 02868 55258 66264 17279 27046 44373 58311
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80744 54171 49589 99366 67323 38746 72595 51833 74238 12189
54332 41384 45445 42666 39018 13618 51357 46313 87344 44287
19637 45280 85998 31980 44664 68437 73287 16944 19984 52239
98068 38574 00643 21465 74842 63914 24974 23195 59753 24196
27427 81561 86492 87310 22402 97982 40007 24555 46963 45242
41159 26721 27734 59651 67220 17292 10759 71714 33106 12623
41753 85326 42754 44236 39503 01555 74434 86164 11464 02145
16628 67621 75252 27777 90732 96536 28433 77981 11713 36313

77027 86686 52633 98637 81505 42653 46634 05505 32228 92289
 33222 83294 97069 31334 44222 81721 52158 52449 95569 32539
 15713 63246 74356 53412 94127 66471 74170 74788 58915 36372
 84192 32635 94332 16924 76379 44296 49506 05046 77149

5555
 OM UR QSS?

Followed by opchat in CW:

Y 8145 QSY 8145 K
 QSA 1
 CBS CBS CBS QSY 8145 QSY 8145
 CBS CBS CBS QSY 8145
 CBS CBS CBS QSY 8145 QSY 8145
 CBS CBS CBS QSY 8145 QSY 8145
 CBS CBS CBS QSY 8145 QSY 8145
 QSA 1 QSY 10457 QS QSA 3 QBN QRQ 50 K
 BK N K BK BK AGN K
 BK BK QSY 10457 QSY 10457
 CFM BK BK ABT 10 K
 BK ABT 20 K
 BK ABT 20 ABT 20 K
 AS M AS M
 BK ABT 20 BK
 ABT 20 K
 QSL 2 K
 NIL GB SK

M42b – FSK 50/500 and CW

Freq	Date	UTC	Details	Mode
1777.5	12-2	1600	UWG2 de UUA4 QSA ? K and QSA 4 ZOR K. (QSX on 4020 kHz)	CW
1790	5-2	0728	NLAT de VGKE QSA NO QSY 90527. QSA NO SK	CW
1790	8-2	0730	NLAT de VGKE QSA NO QSY 99068 and QSA NO SK) //3838 (08Feb16) (F5JBR)	CW
1823	22-2	0500	LM7K Wkg W9SP. Message in FSK and opchat in CW: QRU NIL SK	FSK 50/500
1845	8-2	1720	Message + opchat in CW: QRU NIL SK	FSK 50/500
3201	12-2	1538	Traffic in FSK, opchat in Morse: QRU NIL SK	FSK 50/500
3254	8-2	0629	L47D de UW9M QSA 2 QSY 54054 K	CW
3838	8-2	0730	NLAT de VGKE QSA NO QSY 99068 and QSA NO SK) //1790 (08Feb16) (F5JBR)	CW
4512	10-2	0805	K4MT wkg NT9P: QRU NIL SK. Msg in FSK 50/500	CW
5071	24-2	2023	BZL26	FSK 50/500
5191	7-2	1443	Wkg outstation QRU NIL SK	FSK 50/500
6224	17-2	0921	Msg in FSK, opchat in Morse: QRU NIL SK	FSK 50/500
6473	11-2	0920	2 messages + opchat in CW vv h e e col nr 235 k. rpt k. h e e col nr 235 k. zzc zvp zvp k. bk qrv	FSK 50/500
6925	13-2	0645	LKDW wkg PRAT	FSK 50/500
8120	25-2	1740	K4MT wkg NT9P. Message 617 126 25 1740 7821 = 56743 90876 46099 ... 06645 37149 46122	FSK 50/500
8120	25-2	1810	K4MT wkg NT9P. Message 635 104 25 1810 7495 = 00000 64758 83293 75147 ... 58912 86142 86819	FSK 50/500
10180	24-2	1233	K4MT wkg NT9P. Message in FSK and opchat in CW: QRU NIL SK	FSK 50/500
10220	13-2	0825	Russian diplo/intel. 5FGs using =50= and =100= group separators	FSK 50/500
10483	25-2	1401	K4MT wkg NT9P. Message ends with 6 1407(Opchat in Morse: QRU NIL SK - QRX 11163	FSK 50/500
10483	25-2	1415	K4MT wkg NT9P. QRU NIL SK - QRX 11188	CW
10483	25-2	1430	K4MT wkg NT9P. QRU NIL SK - QRX 11193	CW

Freq	Date	UTC	Details	Mode
10483	25-2	1445	NT9P wkg K4MT. Message 666 129 25 1440 4783 = 45681 35929 21614 ... 09942 60492 21770. Opchat QRU NIL SK - QRX 11258	FSK 50/500
10483	25-2	1500	K4MT wkg NT9P. Message 505 126 25 1500 7420 = 56743 90876 46099... 06645 37149 46122	FSK 50/500
10483	25-2	1515	K4MT wkg NT9P. Opchat QRU NIL SK - QRX 11358	CW
10483	25-2	1640	K4MT wkg NT9P. Opchat in Morse: QRU NIL SK - QRX 11498	FSK 50/500
10960	25-2	1401	NT9P wkg K4MT	CW
10960	25-2	1415	K4MT wkg NT9P. Message 810 131 25 1410 5273 = 23224 50547 58596 ... 75710 98272 59309	FSK 50/500
10960	25-2	1425	K4MT wkg NT9P. Message 313 130 25 1425 2541 = 18635 84274 01900 ... 85556 84093 49748	FSK 50/500
10960	25-2	1500	NT9P wkg K4MT. Message 450 128 25 1455 4257 = 02069 30549 41202 ... 54736 46640 95970. Opchat QRU NIL SK - QRX 11263	FSK 50/500
10960	25-2	1600	K4MT wkg NT9P. Message 271 104 25 1415 1824 = 64758 83293 75847 ... 58912 86142 86819. Opchat QRU NIL SK - QSY 18878	FSK 50/500
13873	11-2	0836	UBI wkg RDK: QRU NIL SK	CW

Here are a number if the transcripts of the logs above. Recorded by André. Thanks for that !!

to NT9P at 1406 UTC
Just copied the end 6 -1407(

to K4MT at 1416 UTC

4646466464644446464646464646464646464646464646464
810 131 25 1410 5273 =

23224 50547 58596 46249 17369 14573 90832 30747 14947 04473
04960 29727 87258 45070 55296 23238 12590 87864 71258 14414
04233 13656 47049 77260 64323 43004 58116 76307 47290 81957
48980 67113 32226 06636 98439 20340 78466 38902 97130 19021
17438 87908 98212 84905 92981 98588 17090 41773 76503 19228 =50=
90036 86690 81304 35691 11816 51190 14212 03009 64034 17501
75937 66812 45907 45140 38658 02127 63372 15942 57722 36470
15424 36336 08754 99056 50067 15918 03501 04216 52749 38808
47440 68228 52408 49635 69205 72952 34111 02790 29643 52822
08021 34438 57730 13015 12653 08968 35819 44621 75809 77058 =100=
95162 66742 28296 13297 89647 27922 88022 56072 50807 33092
68557 03085 64258 09319 23754 57744 91319 28802 82921 29148
23674 99860 85128 39302 23346 68576 10890 16106 75710 98272
59309 -1418(

4646464646464646464646464646464646464646464646464664
313 130 25 1425 2541 =
18635 84274 01900 79247 45104 93291 71115 36772 87887 87504
04826 87582 25933 85270 70929 96547 83018 25218 00073 26047
77370 70286 87490 16972 71172 49853 90418 84042 64877 76989
12620 00028 84231 03798 13400 34592 93428 46457 33097 57981
79188 14948 21927 82224 32934 69588 56490 75283 14836 77249 =50=
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43300 42469 70330 83610 18314 20802 70043 07116 87571 80736
70393 33823 75216 28674 79289 14373 88711 02568 07568 46348 =100=
93934 25979 26232 29051 35933 39195 01778 05938 85317 53767
33812 63019 82922 15187 34863 07183 93182 69780 88824 22009
26206 69105 30242 05197 02881 83502 59935 85556 84093 49748
-1433{

to NT9P at 1600 UTC

46464646RYRYRYRYRYRYRYRYR

271 104 25 1415 1824 =

64758 83293 75847 47290 09361 31425 04819 75610 75843 09287
84759 85710 74910 74934 88312 85739 86725 89137 73712 74821
77814 73812 74719 01738 75912 75912 80642 75649 75124 75710
75812 85921 05738 85729 75912 76849 76934 79110 13917 92421
90591 86939 91542 06842 86345 76431 76888 68391 85941 04315 =50=
85819 05923 85732 86812 95823 85901 01256 84245 83512 85912
85912 85729 79860 67485 15429 85723 85123 58613 99581 86135
85132 86146 93571 05813 95837 75136 75108 90736 65089 08739
27236 21268 31752 35908 22670 90871 84819 57381 85713 09381
95012 85912 86741 86819 42367 84124 85810 58391 89912 68910 =100=
89041 58912 86142 86819 -1421(

464646464646464646464646

302 101 25 1430 7821 = 00000

28228 49933 18849 07981 59192 58592 86742 31836 92356 64680
93480 10935 34941 04657 92716 39992 28049 70336 81166 92417
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31147 85346 42217 55403 44337 20893 99828 85954 44175 26922
48536 97436 77081 65981 90045 78180 91783 81653 37416 73523 =50=
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02842 19633 60572 13315 24394 44387 60210 40286 32406 10984
14618 22900 12472 12007 78343 64511 89909 22662 54225 86154
32383 11868 46123 20159 79465 86799 67454 99661 93303 82865 =100=
56743 -555 1436(

to NT9P at 1740 UTC

617 126 25 1740 7821 =

56743 90876 46099 87612 08976 11987 65483 09746 67584 98419
00987 45673 12907 53819 35628 12309 471x0 32459 57321 76531
90080 67512 89116 32476 77543 76701 81923 73271 908x2 75489
24081 27173 06437 93782 98007 12098 45722 01986 75412 43209
28031 19902 89168 80742 22351 39710 89724 43091 78431 80115 =50=
1569x 01800 34521 43653 87651 09812 01101 45376 89761 85476
15263 37485 59607 71829 93045 15378 14702 25813026901 67891
65472 42167 56473 78290 80706 53536 71256 89017 12783 32876
876x1 46738 09123 37291 74938 78341 78123 78349 78123 90800
65438 98712 87650 78124 87651 98012 87641 98641 32456 91108 =100=
46502 51857 12822 32503 99475 19920 51956 78712 26610 55220
72037 65800 69489 26533 69737 91768 19404 98910 07330 64607
23829 00624 02554 06645 37149 46122 -1747(

to NT9P at 1810 UTC

4646446464646464646464646464646464444444444446464KV

635 104 25 1810 7495 = 00000

64758 83293 75147 47x90 09361 31425 04819 75610 75843 09287
84759 85710 74910 749x4 88312 85739 86725 89138 73712 74821
77814 73812 7471x 01738 75912 75912 80642 75649 75124 75710
75812 85921 05731 15729 75912 76849 7xx34 79110 81x17 92421
90591 16x39 91542 06062 86345 76431 76888 68391 85941 04315 =50=
15819 0xx23 85732 86812 95823 85901 01256 84245 83512 85915
85912 85729 75860 67485 15429 85723 15123 58613 99581 86135
85132 86146 93571 05813 95837 75136 75108 90736 65089 08739
27xxx x1268 31752 35908 22680 90871 84819 57381 85713 0x381
9508x 85912 86761 86819 42?67 84124 85810 58391 85912 68910 =100=
89041 58912 86142 86819 -1858(

12184/10169/8079 kHz, 02-02, 1015/1025/1035 UTC

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Same messages now as 5-figure groups

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 07005 01316 82089 47309 81450 23845 76615 81184 16317 22017
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 23217 90103 82123 15352 98046 73786 86408 57049 62476 48613
 88679 32833 82175 44275 19111 77136 22157 25061 70310 83840
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12184/10169/8079 kHz, 03-02, 1015/1025/1035 UTC

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=90111 159892376807752122	=89130 49522896416800399	=85549 400031387077694163
=82612 46398247032375142	=80731 01291634311918091	=84450 64604397535192868
=89413 92372062307340640	=88632 807831633222764120	=83151 870841982021139966
=82714 445783100011562116	=86033 78561017469365697	=80952 05221844895717038
=84815 59779686628078493	=83334 331725569543648127	=83253 375332555128614152
=85616 486149224699727101	=87235 381399948351942210	=83254 435816563797091103
=82217 43337153638526345	=78636 744026987899889145)57655 00000+++++++151
=80518 079763427988029100	=81637 218065927653967148	
=87319 855523002326716126	=85738 28589549101453385	

49467 92013 91884 24722 70192 98420 41227 75045 25330 18957
04394 74444 45916 68650 30713 15534 99880 86437 86335 61355
38936 88383 14061 13296 81902 03027 03822 32220 64133 37291
15989 23768 07752 46398 24703 23751 92372 06230 73406 44578
31000 11562 59779 68662 80784 48614 92246 99727 43337 15363
85263 07976 34279 88029 85552 30023 26716 57218 46489 09575
98327 82100 92815 96063 00000

90541 64526 24361 32663 42803 76520 84522 68332 64888 52805
31079 05973 73375 76639 57149 70334 62787 49522 89641 68003
01291 63431 19180 80783 16332 22764 78561 01746 93656 33172
55695 43648 38139 99483 51942 74402 69878 99889 21806 59276
53967 28589 54910 14533 87408 24080 86199 02166 91582 25279
45293 20455 83732 22665 80949 69990 25877 96627 21550 99891
74613 60206 57570 63872 80233 48421 56950 40870 08586 21363
49319 99904 84145 73246 40003 13870 77694 64604 39753 51928
87084 19820 21139 05221 84489 57170 37533 25551 28614 43581
65637 97091 00000

12184/10169/8079 kHz, 25-02, 1015/1025/1035 UTC

=8561 474416891585587157	=81521 95782136113974199	=81941 628603644517612117
=8612 34423258254321989	=80222 371869269699065101	=80142 02503113094754569
=7903 783055041499728118	=72023 000000000000000109	=80643 66938658104902946
=8784 421311818768118212	=77024 000008451157256103	=88944 310340362169546107
=8615 382357706267238122	=87725 05985236005130041	=76845 89936497138286313
=8766 973476430207305114	=87826 616816676651944128	=81346 706649844998993104
=8767 194487071629363121	=87427 709592847137213111	=78647 232894515443954117
=8048 06796033710030585	=90528 56878102125302168	=86148 479475597552006129
=8469 153716809470739174	=84629 78259378821546164	=82449 14346757775055686
=92310 6448987725607483	=83130 87345249582008465	=82650 824235584639638100
=84811 570635464547510131	=88631 367377855072572103	=87751 98045927223127080
=81912 862422511736390145	=80832 535226775787866148	=81852 347335509844371133
=78413 564869672227297118	=82733 655212656356780137	=81553 13942326387937484
=77414 05077332796966680	=85734 63694563242942485	=82054 99582594400878666
=84015 477504020044193155	=84135 67955670832676893	=84255 107184592522369127
=84016 557091022788426100	=83436 28728978407309413	=87656 95052778104835873
=85717 370904179262603110	=83537 884593902776795108	=83157 10325183683500428
=80018 299239177596841104	=84638 964760496502242124	=84258 52165922700110384
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=85620 92140053672444170	=82740 10949371788957181	

47441 68915 85587 34423 25825 43219 78305 50414 99728 42131
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29363 06796 03371 00305 15371 68094 70739 64489 87725 60748
57063 54645 47510 86242 25117 36390 56486 96722 27297 05077
33279 69666 47750 40200 44193 55709 10227 88426 37090 41792
62603 29923 91775 96841 73986 07668 85323 92140 05367 24441
95782 13611 39741 37186 92696 99065 00000

84511 57256 05985 23600 51300 61681 66766 51944 70959 28471
37213 56878 10212 53021 78259 37882 15461 87345 24958 20084
36737 78550 72572 53522 67757 87866 65521 26563 56780 63694
56324 29424 67955 67083 26768 28728 97840 73094 88459 39027
76795 96476 04965 02242 09908 15098 02712 10949 37178 89571
62860 36445 17612 02503 11309 47545 66938 65810 49029 31034
03621 69546 89936 49713 82863 70664 98449 98993 23289 45154
43954 47947 55975 52006 14346 75777 50556 82423 55846 39638
98045 92722 31270 34733 55098 44371 13942 32638 79374 99582
59440 08786 10718 45925 22369 95052 77810 48358 10325 18368
35004 52165 92270 01103 00000

12184/10169/8079 kHz, 29-02, 1015/1025/1035 UTC

=7701 84607402719778434	=80148 305024849670395137	=83695 458253708624729100
=8372 865558742656855100	=84449 20636059478001556	=86296 31665951390738666
=8433 543984423279601110	=83750 9782698646587771	=87397 224828989824546126
=8584 904915543758938104	=84651 50529446091565535	=84398 00208884919417644
=8475 26772249227232884	=83752 193473131439670107	=84499 298357477720222137
=7996 26364751410490535	=81353 539596250388374146	=81510013542727766778549
=8577 725867771123856125	=85054 46888772750337933	=877101403593259374209138
=7828 168701685333641110	=86955 55162974673631879	=821102776106167494553130
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=81710 973816039587179127	=84557 342541961148265101	=86010488957037304944136
=83511 89855229409137794	=84558 990790669916747110	=876105706803240404233122
=85312 962199663719339149	=86559 728883867395948177	=800106322670617515821100
=81113 58761248552210970	=83360 638433475190730150	=860107466374892902848149
=87914 768319016567880149	=81861 24154154600077285	=846108166599161744881126
=82415 98823260305287937	=79762 354259508479981137	=829109732829947745152135
=80616 07922457336587648	=83663 355068369079214113	=88411040896508265334199
=84117 37482522394599341	=83164 637511556818089140	=837111392480548095361159
=89318 213979037714169191	=84265 617823014818762148	=87611239464639418362258
=87419 479071718724942112	=77366 072045853497038127	=853113808324755642759117
=87420 87631312037754782	=79467 05105795132882832	=838114428336918484293210
=90821 659838813605833127	=85468 210523193267670118	=78511568820224080042327
=82722 892270717658739103	=87069 40789421027027593	=789116423544376796847108
=75323 354778769286175154	=84970 591326820086605122	=858117534692345686722113
=78224 64364029435287390	=86271 146951407423826103	=876118893765751213845122
=80525 07107229575964582	=87272 52828037553652391	=847119054509649958526148
=77926 253216508046878109	=80373 588402679393333157	=811120356534690609528191
=83427 263617871152474119	=86174 09661830620220046	=803121706572257369383181
=83528 93003374310963282	=87475 499543121185677102	=838122440146715993294141
=87929 51619449354561889	=86176 027835631909873974	=744123034141304390569102
=82130 30595436087579614	=81877 611343054346239126	=84312421126936320529442
=80531 297857721087907125	=86278 08723699038830280	=87412586808232433878870
=85732 650167260565453129	=83979 11147465248879256	=772126538409289518008124
=80133 52449675650047199	=85180 500134538192891100	=826127720810659832957125
=88834 599659890559065112	=83081 30492772492242397	=809128237974902834379160
=80435 02794393395282463	=87182 182333705405341122	=86112902237977543502339
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=81838 197408197073963149	=87285 005989082443914143	=79113297298309935993871
=84839 68226865441572435	=83786 856543347181330148	=856133260028284223913113
=92540 87380885360412826	=86187 55566816331241750	=84513459805480503859059
=86341 333077117024667966	=76888 235716555831692146	=82113589855239013213838
=82242 59641300147454179	=81689 939424117472470183	=8611363557649997630593
=83143 613054476880458143	=80290 05942897117298698	=851137322181746167142109
=83844 26492981000606796	=81991 482432763608741154	=830138888496879675131152
=81145 34000316982287257	=85092 02853808245515081	=872139124971615185592181
=86446 79770325327822899	=80193 11043465220246375)6911400241700000+++++169
=83847 43900220150533369	=84494 92175023634413032	

M42d / F06 – FSK 200/1000

Daniel (Danix) sent me an interesting report about a couple of things that he investigated.

1. Why the M42d (F06) serial numbers increase +2/+3 instead of +1 with each message.

In the binary version of the header used by F06, the serial number is eight bits long, giving 256 possible values. In the Baudot version of the header, however, the serial number has two digits.

To comply with the old guidelines, they stretched the serial numbers over 256. Their solution for this seems to be multiplying the actual serial number by 2.5 and cutting off the fractional part:

1 * 2.5 = 2.5 → 2
2 * 2.5 = 5.0 → 5
3 * 2.5 = 7.5 → 7
4 * 2.5 = 10.0 → 10
5 * 2.5 = 12.5 → 12
6 * 2.5 = 15.0 → 15
7 * 2.5 = 17.5 → 17
8 * 2.5 = 20.0 → 20
9 * 2.5 = 22.5 → 22
....
98 * 2.5 = 245.0 → 245
99 * 2.5 = 247.5 → 247

It also explains why F06 serial numbers #0, #250, #252, #255 are all left out.

2. Group #10 in M42d (F06) messages.

Here is something I noticed about the group #10 in F06 messages that contain the non-random 11 groups. Examples of link ID's that include them are 16404/16405, 20501, 32799, 32821, 36882, 45079, 45114/45115. Examples of them that don't are 40988, 45057, 45136/45137.

That particular group seems to be related to the month and the day when the message was written. This is very easy to spot especially on the link 36882, because it usually sends one new message every week.

Here are examples of group #10 on link 36882 from various recently intercepted messages:

dac2 - sent February 27th/28th, 2016 - written February 26th, 2016 (one day earlier) dafa - sent February 20th/21st, 2016 - written February 18th, 2016 (two days earlier)

dac2 - sent February 13th/14th, 2016 - written February 12th, 2016 (one day earlier)

dac2 - sent February 5th/6th, 2016 - written February 4th, 2016 (one day earlier)

c1c2 - sent January 30th/31st, 2016 - written January 29th, 2016 (one day earlier) c1fa - sent January 30th/31st, 2016 - written January 28th, 2016 (two days earlier) c1fa - sent January 23rd/24th, 2016 - written January 21st, 2016 (two days earlier) c1fa - sent January 16th/17th, 2016 - written January 14th, 2016 (two days earlier)

da82 - sent December 26th/27th, 2015 - written December 25th, 2015 (one day earlier) daba - sent December 19th/20th, 2015 - written December 17th, 2015 (two days earlier)

da82 - sent December 12th/13th, 2015 - written December 11th, 2015 (one day earlier)

da82 - sent December 5th/6th, 2015 - written December 4th, 2015 (one day earlier)

a882 - sent October 24th/25th, 2015 - written October 23rd, 2015 (one day earlier)

a882 - sent October 16th/17th, 2015 - written October 15th, 2015 (one day earlier)

a882 - sent October 10th/11th, 2015 - written October 9th, 2015 (one day earlier)

a882 - sent October 3rd/4th, 2015 - written October 2nd, 2015 (one day earlier)

8fba - sent September 26th/27th, 2015 - written September 24th, 2015 (two days earlier)

As you can see, the values remain fairly consistent in relation to the day and month of the message writing date. Interestingly, they adopt new values each year. For example, January in 2012 was 40, while the same month in 2016 was c1. It's probably using some sort of strange calculation, like the serial numbers.

I'm guessing that these 11 groups contain unencrypted, but scrambled metadata about the message for the terminal that shows them to the recipient. The 12th group appears to be always the one where the payload begins, as the non-randomness suddenly disappears starting from there.

20916/18730/16165 kHz, 10-02/11-02, 0900/0910/0920 JUTC

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

Block No 1 : Link ID 16405 : 26th of month : Msg Number 237 : Msg Type 07145 : Group Count (?) 216
26549 22210 47343 36462 05092 36793 01851 08363

1be9 4015 67b5 04ed d8f0 [Link ID 16405, Date 26th, Serial #100]

b8ef 56c2 738c fda6 d890 d8a2 b86a bb63 a6c3 2252
9592 adb6 8974 5292 bd9d 7b82 d809 08a0 9e42 e8a9
ffd5 8054 7382 4173 02fe 3da2 60f8 2d0a ea45 1161
72c2 33c8 535e 2dcd d639 f33b 5589 0d27 f3fa e5d9
62b0 9a3b d910 18d8 931f abfc 38ef 041c b32a 829a
d418 4b56 b009 3ab9 2e10 d03c 9107 cb55 9033 f35a
f531 0a90 a344 6266 0ea5 d860 9158 9d77 309a 95ad
58c0 6873 51b5 2122 99fc 3121 b384 6b27 b172 56b2
5db7 dc22 37ce 3da1 e9ca b942 60da d79c 23c9 5062
9daa 209a f549 da43 2e40 a2a2 1abe 2226 38e6 d912
7f8b 9d99 e58d 7363 e3e9 c224 1b56 8f0a e9ac 3317
13e4 ee03 0c7e 7028 804f 5894 41c7 62b8 61da 2cee
5b39 064e fb74 d617 4132 eee9 4101 2a85 2ec7 7935
06e9 453e 4687 c14a 4509 c5dd 460b abb1 af5f bc71
e1b4 f451 94dd 51cd 2a4b 6fa2 e7bb 4d2d 8859 29db
f614 7768 61e8 9396 201b e121 d42d ca18 6b1d 855a
e1f0 4103 7266 116a 40b9 e40c 9d3c 0137 6f1d 54c7
c72b a1da ab11 f231 9daa 08c1 66b6 82a7 7f0b 21c5
b30e 6443 d905 eed9 7cb6 65a0 3b0d ca5c d301 8e42
02e2 a154 579a 2086 3025 2707 6919 cd60

Danel writes: strange things had happened to this schedule lately:

1. Since the 4th Wednesday of December 2015, new messages appear to be written on the 4th week of the month instead of the 2nd.
2. Since the 4th Wednesday of December 2015, new messages appear on the 4th Wednesday and repeat on the 2nd Wednesday next month. They used to send the same message on the 2nd & 4th Wednesday in the same month.
3. New freqs were adopted on the 4th Wednesday of January 2016. The 2nd Wednesday broadcast still had the freqs they've been using for years.
4. The new freqs have affixation to ending in 0 or 5. This could already be seen in the link ID 45114/45115, and also the 0600/0700 E06.

20916/18730/16165 kHz, 25-02, 0900/0910/0920 JUTC

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

Block No 1 : Link ID 16405 : 20th of month : Msg Number 240 : Msg Type 07145 : Group Count (?) 192
26892 21251 40288 33364 01336 03412 61887 21107

[Link ID 45114, Date 26th, Serial #26]

1be9 b03a bcb1 0441 5ef8
cf27 17c6 c015 b8db 2838 9580 9307 0735 32b7 7700
1775 c8e7 b34e 397b aafb b913 d097 9a9c dad3 07aa
f824 154e b820 2146 ddb6 23c7 727a 7863 c2df 9d64
65dd 0065 caf3 15bf a63d c228 e0b2 d788 4318 74eb
bd86 c8f0 3056 6d34 2ed3 030b 13d4 9e86 47f4 8157
20c1 3c5f d484 b542 74f0 6b9a 5e5a 0f84 0a33 1e6b
1436 847f a84f 3409 99e4 848f 8f35 db18 2f96 053b
05a7 b969 6a33 1b0e 193b 4c59 00f3 15c4 8404 1859
cf87 cb80 f1c7 6357 e789 4c80

Link 20501

11471/9216/7637 kHz, 02-02, 1650/1700/1710 UTC

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

Block No 1 : Link ID 20501 : 2nd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
34156 00000 00000 03560 12857 35562 00893 47703

11471/9216/7637 kHz, 09-02, 1650/1700/1710 UTC

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

Block No 1 : Link ID 20501 : 9th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 02378 12857 34999 00893 26371

12083/10214 kHz, 14-02, 1540/1550 UTC

Msg No 002/14th. Type 07145 on Link 20501. 39180 00000 00000 01798 12857 35627 00893 58393

7637 kHz, 16-02, 1710 UTC

Msg No 147/16th Type 07145 on Link 20501. 15604 00000 00000 00993 31756 34471 00893 24672

Link 32799

19583/17454/15881 kHz, 09-02, 1400/1410/1420 UTC

Block No 0 : Total Message Size 23 blocks : This transmission contains one message.

Block No 1 : Link ID 32799 : 5th of month : Msg Number 100 : Msg Type 07145 : Group Count (?) 140
40756 08257 39362 32829 14796 00215 49144 16922

1be9 801f 9f34 3264 8cf4 [Link ID 32799, Date 5th, Serial #100]

99c2 2041 1ad3 01df 631b 0802 0a59 cd07 e5f6 6325
78a7 09ac 3658 868f de41 1993 17cd 111a a642 087b
48c5 fe64 90c5 7399 61b8 2c0f 4cc1 8acc c2ce bb71
93a5 2bab 2b02 9c0a cf49 f7dc e9a4 0a06 22f5 4f60
e127 daf5 f89e d5e2 6619 9e6e 080e 0f31 da9b 5ca0
3321 b693 25ce c0db 3ce0 0266 6e3d 2e21 b033 eb9f
030e f5be 861f 8c01 3b76 96e0 74b9 d15f 4a89 5ec0
666e bc69 1e73 b822 3272 54cb c64b 9472 0d53 16b2
3244 7d6e dc95 6586 cbb5 8353 6637 3826 d92d c828
6fcd 90dc 38e6 c35a e1b4 b50c 6d64 b3d9 8a87 6248
6ff4 eec8 cf7d fe2a be98 1df9 04a3 735a 8346 f0c9
ac4f c3f2 94aa bd71 6e35 10e8 c538 ce19 9b02 a316
d498 b74d a525 8b8a ef53 a341 806d 08a0

19583/17454/15881 kHz, 10-02, 1400/1410/1420 UTC

Block No 0 : Total Message Size 23 blocks : This transmission contains one message.

Block No 1 : Link ID 32799 : 5th of month : Msg Number 100 : Msg Type 07145 : Group Count (?) 140
40756 08257 39362 32829 14796 00215 49144 16922

19583/17454/15881 kHz, 16-02, 1400/1410/1420 UTC

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

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

Block No 1 : Link ID 32799 : 16th of month : Msg Number 102 : Msg Type 07145 : Group Count (?) 4
15360 00000 00000 03339 19279 35501 00893 49606

Link 32821

22878/2016/18253 kHz, 13-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 32821 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
46172 00000 00000 03682 16767 34295 00893 47147

22986/20363/18669 kHz, 13-02, 1530/1540/1550 UTC

Msg on link 32821. 1be9 8035 990c 8202 04e1

20363/18669 kHz, 20-02, 1530/1540 UTC

Msg 057 20th

Type 07145 on Link 32821. 24132 00000 00000 00503 28292 34763 00893 05930

22878/2016/18253 kHz, 27-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 32821 : 27th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
01477 00000 00000 01167 28292 35426 00893 53040
1be9 8035 05c5 0e02 04e1

22986/20363/18669 kHz, 27-02, 1530/1540/1550 UTC

Msg on link 32821. 1be9 8035 05c5 0e02 04e1

Link 36882

19823/17546/15825 kHz, 06-02, 1100/1110/1120 UTC

1be9 9012 cf6c 3264 3ae2 [Link ID 36882, Date 5th, Serial #100]

a232 31b7 b99a dcbd e217 bea4 1211 cfbf 9d34 dac2
a6d9 79d2 eddc 06c3 05a4 18a9 8ea0 8e95 0b93 553e
15c9 bc17 f4c1 1115 f1a8 80fa 13ee 79a5 2050 bc33
3603 237c 4de5 9792 a9dd 3903 5066 efd2 e191 bb96
77cd 17d9 b4c7 5582 e095 e274 b8fb 3ca9 a1d0 0e2d
1f59 b903 8000

19823/17546/15825 kHz, 13-02, 1100/1110/1120 UTC

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

Block No 1 : Link ID 36882 : 12th of month : Msg Number 102 : Msg Type 07145 : Group Count (?) 108
25840 13847 42320 05974 43092 37393 45084 49842

1be9 9012 64f0 7866 6cef [Link ID 36882, Date 12th, Serial #102]

a550 3617 b99a dd8c c084 1ca4 1211 f035 5d41 dac2
a6d9 ce0c fb30 3df4 e046 aa85 e402 6422 424e a88f
5307 dc95 9be6 58c1 a9cd 1b35 13b1 6d46 aaa5 e550
eeb7 46cb 2535 c8a4 c97c 8411 5462 33f0 8638 a952
6b82 250e 020a e984 c958 4caa bc19 2090 b91b d0c9
6bb7 6257 0b3d 023f dce7 b1bd 062d 4d87 e5ea 588e
4263 98ef 35f3 e18a 6390 0f65 1bd9 a82c 23bf b9ca
1bbe 2138 7ba2 2db5 fbf5 fc0d d3d4 8f19 6587 16e4
d849 4da3 59d0 c605 1134 8c10 227c a4f8 e1d5 2ab4
223e e403 6b64 7512 4f02 7c4f 344a 4caa 324b 4c64
f0d6 d32d 7700 2025 cb85 d4f4 6f89 90ec d972 659c
4305 4e48 1f1d 9e04 398c 968a ab8c 21de 8703 691a
27e1 a2b3 bbfd 2908 a89a 3980 c27e 3b83 440a f337
a8a6 83ec 6741 12a9 7988 d95d 4e60 4494 6a7d d5e5
0de5 d365 2e7c 2670 4580 bc87 978b 1226 6b18 8792
327d 520f 216b 7ac2 20f9 faf8 ced3 df9c 237b 0475
76e6 e694 8397 a449 7f8a 6002 1ee6 0805 7433 d3b3
d945 72c7 a76a ea0f 4d7a c201 f1a3 6e56 ea24 3705
2098 2a91 eb28 cd18 daad 8e56 7023 0552 98ae dea8

6243 1026 ddda 48b0 64ad 5235 c996 4bf6 b779 2113
e825 8fd6 ed82 085e 9757 7618 ec96 f48f 4c06 405b
5aa2 0373 642b b6d8 a234 fc08 b022 b8a6 8397 2108
e56b e0a1 54eb 1fe8 1987 2b84 b1c9 184b 6515 419d
0c0f b5d8 1c68 540f 1a37 de3b 0f77 7133 ad41 e301
4d52 4df0 3522 ac1f b193 67cb 7024 3a50 48b5 bbe1
0fe3 ccde 509f ac16 1f64 13f1 34b6 cb0c f730 db19
d947 2729 7202 7c81 45c9 624e 3b67 6070 8fe4 68fd
b4cd c6d4 be01 e79a 21c9 e870 29f9 7935 d6eb 9aef
acec 8011 bdb4 f00b 5ba7 5ca9 cc7f c53c 24b6 4cae
e765 8c93 25f0 ceb3 aee9 7788 5c68 4ae1 bbe9 d665
232b 5eeb 6e74 7702 ca06 a206 1322 fd3c ebee 08e1
3374 3c17 1198 9c76 6dd4 053a 48e7 057b fd83 e97e
278b 4901 8b16 8661 058e f2c3 3eb2 b78f 111d 3701
59b5 e185 4670 6220 c800

19823/17546/15825 kHz, 14-02, 1100/1110/1120 UTC

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

Block No 1 : Link ID 36882 : 12th of month : Msg Number 102 : Msg Type 07145 : Group Count (?) 108
25840 13847 42320 05974 43092 37393 45084 49842

19823/17546/15825 kHz, 20-02, 1100/1110/1120 UTC

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

Block No 1 : Link ID 36882 : 18th of month : Msg Number 105 : Msg Type 07145 : Group Count (?) 166
56868 13207 32339 06567 31234 01274 53841 12509

[Link ID 36882, Date 18th, Serial #42]

1be9 9012 de24 b469 a6e7
7e53 3397 b71a dd0a c3a4 58a4 ae11 dbd5 dd47 dafa
e6da 117e 6195 1061 c0b4 b949 5c77 652d 0bc4 bbbb
d5b6 079d c478 9d76 eaa8 1895 c31a 49cf c6c2 9042
cd08 6894 2b55 0257 ce43 f15b 4778 d140 e3a5 f95d
161c 6aeb 5502 7112 665b aa00 5012 22ef aef5 0588
94d0 43bc c45e dcd2 0e41 de09 4e40 04a4 070d 3f9e
59e3 0734 a7a0 7d9a 1331 a435 41b3 cc6d 75b2 6480
c21e e6f7 7243 209f a225 a298 74c2 90f0 e1c5 edcb
8412 7e41 6531 b6d3 178e 02e6 a8c1 c601 d73f 4ac9
4b7a d07d 62a5 160b b75a 191d 1541 62c2 96bb e6a0
31eb 50ab 8dc0 5423 9398 b921 6671 a58a 6943 b94a
b490 a878 fd08 86c7 3552 be0f a723 8b7d 0083 f77e
5052 0997 2990 1541 4f5b b93d 42f3 b1b1 3ccf d755
4f53 7470 aa70 e86c a018 b149 2b6c 7c3c 3a4c 0159
55d9 f7e8 82e7 3c4a 88f8 ec35 4fed 28fb 6030 33a3
4245 5a00

19823/17546/15825 kHz, 27-02, 1100/1110/1120 UTC

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

Block No 1 : Link ID 36882 : 26th of month : Msg Number 107 : Msg Type 07145 : Group Count (?) 212
26865 14487 41352 06284 28573 33808 35290 11031

[Link ID 36882, Date 26th, Serial #43]

1be9 9012 68f1 046b d4ee
a188 3897 b99a dd7d 3854 a8a4 1211 edbc 1d55 dac2
a6d8 518c 0178 42de d289 d617 400c 3de8 8db4 a113
edd0 ad81 21e1 6605 fc64 c860 e63e 44e0 ba7a 0738
0d1a a692 222c 543f a7ac a017 6451 10ef 000b 4040
a201 df67 d068 84c1 d617 e199 cb47 c68d f2c6 7c40
d769 ae9d fdc7 1168 2d0f 6b21 b8a3 e4c1 2b6f ef64
3185 45b4 5848 6088 3755 6fef c8a8 7710 5eb6 0ea7
c29f 6846 3bea 3d24 f33d 6d33 6cd5 366d 8146 9b76

e3a7 1873 3af4 c994 b119 5d48 e54e b28a c699 f53f
9b0c 2fa8 2256 6f27 8a9e af14 4f15 c33c a24d 2828
38f0 07fb 33df 1717 1052 d5fb 0790 b98e 91a6 914a
bae9 c894 874d e8e7 79f2 92c5 f9c4 216e 4ba2 50b7
0759 0834 2898 df2d e468 e1e1 7dc2 0352 42d8 31bd
6eb1 9a0f 4346 c30d bc00 5b88 5043 39c3 1ac2 00f9
fc06 aaa1 5719 e65b b332 71bd 11f5 e402 4380 e141
1b05 70aa f459 2523 bb01 caa5 8f86 759f 6ab3 128d
0216 1592 1414 466d 7e8e 5c47 1397 61c8 bded 82b5
334a 89fc 8529 71f7 31b1 9ad1 7924 c9bd b94b 54ad
384a 2154 1a45 7768 9c1d 446c a7b0 245a 0a34 7204
02e8 a4cc 4701 4504

19823/17546/15825 kHz, 28-02, 1100/1110/1120 UTC

Block No 0 : Total Message Size 53 blocks : This transmission contains 4 messages.

Block No 1 : Link ID 36882 : 26th of month : Msg Number 107 : Msg Type 07145 : Group Count (?) 212
26865 14487 41352 06284 28573 33808 35290 11031

Link 40988

12214/10226/9091 kHz, 26-02, 0600/0610/0620 UTC

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

Block No 1 : Link ID 40988 : 16th of month : Msg Number 162 : Msg Type 07145 : Group Count (?) 198
42268 09169 33202 39683 19784 51307 46589 42294

1be9 a01c a51c a0a2 c6eb
81b2 23d1 01dd 1bb2 0a30 ef8c f15d 22d5 def8 06fb
bce5 d9ec 9179 a9ed 26ce b247 db9f 1a3e 90be a526
b89f 2bf9 6326 f666 7f6c bcb2 0e10 e889 84e9 8a02
524e 3609 4011 1625 93b8 3dc3 bbc1 1e40 cc52 fdca
2fd1 9149 8963 d574 25fd c71b 18f2 88ee 60ad b148
8325 cb9f 5b41 a187 83e2 6669 8431 d6b1 4e2a 1ea8
6e7c 7426 2867 f05c 2a19 8bdf 9e49 05c1 7aa1 046a
3b4d 1147 2353 79ac b9a0 8905 c2af b16c 3c25 c277
0e6a 6c22 5bdc 8187 e031 44c5 c2fb 50ac 873f ba21
9a53 7bc5 4682 dd4c fa78 d777 c447 571c 5c1a abd0
d65e 6118 b6d2 5546 59b7 ad77 61e8 3813 53e4 f1b4
6d4d 0f29 4f7b 7cb2 6a5f 02f6 0d47 3c43 77ab 6cbd
2c00 244b e91e 99de 0381 c6d3 28fc 3481 8251 361d
54db 704f 1186 e872 7594 1ed3 cdc2 0b96 67b7 8c33
5b4a 89b2 2595 ac35 a5b7 4895 d9ed 2cbd e102 3044
317b d8a9 f3e1 3740 d71a 2c91 7258 242c 4142 c7d8
aee7 eec9 2677 b639 32ef f2cc 10b9 88e5 0719 bcf7
9767 3dfc 92c2 cce7 cfe3 d094 77c7 831e 0c6d 5e7b
09c1 6abd d451 95b4 2c8d f45d ec01 558c 8158 58e1
a176 e7ab 770b 3554 943a 811c 9324 23c4 35d1 3db2
3be8 633f 3e5a d955 d6e1 459d 3a96 dcd0 f612 c816
2e4c 7c30 eaf7 0079 7830 e5c5 56da fb06 84c0 ce1a
8c66 79c1 9fa5 9ca2 a269 b207 9370 656b aab7 a55f
5f74 ae91 d3b6 ed5e 1d72 c06d 0e04 a858 9bb2 17a8
2c7b 7892 6234 efd9 fd17 4c2e 4ba1 3cd9 6868 59e3
745f 7acb d170 abc9 b165 0e07 5549 3201 9949 6a19
81e8 8c63 00d4 08d9 3adb 99d3 59fa dd09 f181 fef5
9417 8d7a fc86 49f8 79a3 a2a4 f3c5 fa85 74cf 67f9
9de4 d237 78cf 83f8 75fe 5015 b36d 3cb7 ebc0 d57a
6a71 c2c7 dd4d c546 a7b0 3269 0a79 09e1 d39d c166
20c8 0040 48f7 cbb7 aebb 500f 7d1c 643e 9ef7 0933
eb07 9929 65e5 90b8 d0ae ad90 ea48 dab9 d486 c908
baeb 0224 c3f4 b862 1d6b f31c 3e57 a677 9016 f3a1
88d0 32fb b768 0de1 7a19 88f1 c93e 3490 7fa7 ea51

7bd0 703e 1201 dfd0 8731 0b74 216e c5e5 5b13 fa12
5c61 4059 2f86 492c 26ca a198 e423 ad50 abf8 14e5
16fc c9f5 7836 0191 8ebe f3f2 f0ef 33d6 0d7d e7f7
_____ 1fee ba9d
00f6 b63c ef93 10f9 0fdd f8e3 b3c5 4ca1 fc13 92eb
190e 411c 7627 c4cc 14af 8322 87bd 5f55 f97e 5938
f727 91c3 8631 3fe7 7212 f895 1305 3a57 38df
a101 177f ff76 f63f 65a4 4da0 8144 9579 90e2 078c
df9e a0e9 bd9b a2ae dcd1 5535 d4f4 5e5e ccf8 411d
8975 a8a4 6033 5538 cea3 70a5 f88a 1a1a d1e5 079a
d3ad 08cc 8318 d8d0 666e 69b6 4a62 98ac d373 3141
9d8c dd08 945b 4fea 9932 cc44 3b20 c67d 8a7e a570
9cf3 5768 35eb 20a6 bd0f 52dc 4264 5b8b e7f2 a296
5bb2 0448 df29 8c49 7141 970e f1d0 1787 3eb8 0b82
30d7 7991 5a37 7c2f 1762 _____
_____ f025 41d3 7d9c f3c3 c918 8acd d528 ec60
fcda ec4c 3413 9af6 055f d9b6 d117 2db0 2ee4 e905
5519 4345 57f0 26b1 acef 93f5 1fa0 a452 a3ca f555
2015 cafd 9249 3147 15a8 2c39 efb9 5a0f f9c6 26b5
1d70 21c0 5484 5976 b733 08ea c97d 3129 Ofac be3a
bcc3 _____ 0114 a146
a5a1 e003 9fb3 15dd fce8 1195 73f3 38b5 6cff 8e62
cd8d 10c1 4ec3 398e d184 a254 fdcc 11ec d9b9 4e52
_____ d5fa fc9f 4b11 7fcb 9acf b1ca 44ae be10 0e90
5a4c 82a1 fcf5 a6c1 8624 dad5 16cb 2af6 9a0a a1f9
e07d cec4 2cd7 2979 3dd6 ba78 d633 5566 3433 4038
050d 77d4 4025 1be9 9136 995e 4255 7212 b264 51fe
e555 7e34 5629 7554 6fa3 edae cdf 9628 28d4 3899
8cf2 58a1 a7ea a6bf 86b3 ea9c 8ea9 d9e4 930a 1d6b
9d1d efa3 249f 1c6a 513e 63a8 cc81 3789 8f56 1c29
c1e2 1e86 bef0 9d2c ab72 13e5 b25d 28c7 24d7 4cec
6bed b5ce deb0 f393 302c 7e6c b5b5 02d9 7dfe 2be0
f52c 6136 0d57 a14f 1d98 039a 0712 b4c8 2f69 875b
c0c0 c82c 5de7 ca04 1b20 67b2 2c34 ef6a 8154 6b51
16a4 121a 784a 16de 34a5 59a9 9829 b896 824c db73
ba61 58db 0b7b 5979 2889 cc50 11dc 9783 8e52 cbe0
63b1 3908 e9d4 7039 df10 8b7c a1a7 0c77 0e11 4baa
f34e ed98 f574 d1f4 a664 dd33 7c46 0a51 0309 ff0d
1d57 2d38 56b4 76ad 8af7 0ec9 5cc7 d3b0 e272 14d0
9087 0e94 f2bc b9f6 441e 41a3 5ae9 3025 46fd 89df
c3d3 e483 37f6 9f19 a185 0f72 6e0d 99dd feef 9630
d460 992d 6ec2 fcfc 3509 470e f560 9e55 0e57 5f4c
4968 120c ca3e 0cba d8c0 7c80 360f e2ec a2b1 ace8
ace4 6c29 7bc2 830d 1435 c556 5192 313a 2260 84c1
95ca 14ed 8973 9cf8 fbba 7b48 2db5 d644 90d0 294c
a136 7b95 2c73 84fc e3f5 76c5 23f7 5f72 171c da33
beba 2e17 16fe cbcd 1d5b 4e88 c4e9 df05 9ee8 97fb
1247 b25b 2c1d 7c79 31bc 0d03 306f 686e 166f 001c
56b2 e267 68dc e72a 2c15 2d0e a789 3d54 b578 5145
01a0 4752 ea64 9973 8c70 a3c6 6569 4d3d 5212 dd4f
8682 db5e 88a4 953a 0255 0226 77d3 aba9 90a4 91f1
36d1 c310 c016 7070 e79d fbc8 b263 7c3f 5195 2ae2
178a a9de 36d7 e61b d046 d2ae bfc6 f888 841b def8
4f33 56c2 51cf 5075 6df3 dc3f f9c6 0972 5dfd f4f6
2ed1 1bcf 8793 4ec2 20d1 5d90 3455 e64e 7c54 5942
46d6 1f72 687c 2301 4337 141f 01de b6c2 7589 5b53
5e87 e38b df82 7498 1328 c508 d089 301a 4a2d a25b
3c9a 4807 a7ed e6c4 b148 cab9 4fe0 915e e4f6 9993
d7b2 ba38 8f6f 9f9c 634a 6b89 9fef 96b4 c0c3 5c1c
dcca 98c6 3988 2ba3 06ce 93b6 0850 864b bd7a 4666

dab8 b67a 34fd a666 c721 49df e4d7 f887 816e ea38
0793 878f b8c6 1a07 0632 7207 58dc 1f29 4291 2e05
22b4 19af af3a 1edf 1254 e617 9016 3ac9 20f4 6c66
2263 4b58 bb89 38b9 0c33 7f64 b901 9be2 d71d 8594
bb95 7795 9c03 2610 2311 9dca a214 f6b2 ace5 f844
e5ed 002a 67f4 87b9 14f4 12e7 d735 7746 d085 7a5a
96f6 eaa8 3764 f9cb 2990 7959 6582 0d79 e2c3 5bd6
0681 1bbc 33ed 006a 5b40 f3fa 3dc7 c837 c71a db1f
6e56 6e4b 673e 5845 e76c 201d 0811 9e02 7126 af08
e0e0 c98a 1645 1797 8a80 4547 db3b 3824 47cd 0b9f
4a3e 202d 3598 6061 a306 d1e6 8970 a01c a2a1 73e7
bdd7 c334 91b0 e71e 9b1e 96a4 7188 0c23 1b12 1ebe
0f5a 76b3 d1a7 f4c1 0550 d8e1 47cc 9011 f107 99ae
fbd4 d3b6 a716 dcf2 9652 1f53 4f15 9809 428d b848
2e86 060d cf83 68da 6a83 eb09 fb30 c6a1 19fc bc80
2187 25f6 7c26 1e90 a1fa f82f 947f 5028 9a7c d721
94b2 5b4c 4000

Link 41022 / 41023

20064/18039/16246 kHz, 03-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 3rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
63124 00000 00000 02823 53647 36591 00893 59882

20064/18039/16246 kHz, 04-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 4th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 01028 50730 36459 00893 17086

20064/18039/16246 kHz, 05-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 5th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
23052 00000 00000 04059 61509 36206 00893 03742

20064/18039/16246 kHz, 06-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 6th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 02208 50730 35272 00893 01669

20064/18039/16246 kHz, 07-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 7th of month : Msg Number 002 : Msg Type 07161 : Group Count (?) 4
01476 00000 00000 03389 61509 35988 00893 56825

20064/18039/16246 kHz, 08-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 8th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
23976 00000 00000 03357 53647 35811 00893 08377

20064/18039/16246 kHz, 09-02, 1400/1410/1420 UTC

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

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

20064/18039/16246 kHz, 10-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 10th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 03366 50730 35946 00893 51747

20064/18039/16246 kHz, 11-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 11th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
48908 00000 00000 03275 50730 34278 00893 26362

20064/18039/16246 kHz, 12-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41023 : 12th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
19740 00000 00000 00810 01463 32920 00893 39700

20064/18039/16246 kHz, 13-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 01068 50688 35904 00820 54156

Header: 1be9 a03e 990c 8202 04e1

20064/18039/16246 kHz, 14-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 14th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
34156 00000 00000 02951 50730 35491 00893 53118

20064/18039/16246 kHz, 15-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 15th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
01476 00000 00000 00612 61509 35525 00893 6511

20064/18039/16246 kHz, 16-02, 1400/1410/1420 UTC

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

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

Block No 1 : Link ID 41022 : 16th of month : Msg Number 012 : Msg Type 07145 : Group Count (?) 4
19844 00000 00000 02961 53647 35041 00893 32161

20064/18039/16246 kHz, 17-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 17th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
34828 00000 00000 03557 49704 33802 00829 16592

20064/18039/16246 kHz, 18-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 18th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 00639 50731 36464 00893 60087

20064/18039/16246 kHz, 21-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 21st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
21216 00000 00000 01344 61844 34395 01781 03806

20064/18039/16246 kHz, 22-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 22nd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
34156 00000 00000 00588 50730 34362 00893 31839

20064/18039/16246 kHz, 24-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 24th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
28340 00000 00000 01320 53647 32839 00893 34696

20064/18039/16246 kHz, 25-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 25th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 01070 50730 34515 00893 64264

20064/18039/16246 kHz, 27-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 27th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
01477 00000 00000 01884 61509 35426 00893 19215
1be9 a03e 05c5 0e02 04e1

20064/18039/16246 kHz, 28-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 28th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
23997 00000 00000 01842 53647 35562 00893 06360

20064/18039/16246 kHz, 29-02, 1400/1410/1420 UTC

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

Block No 1 : Link ID 41022 : 29th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
46205 00000 00000 00898 53647 33994 00893 27670

Link 45057

20984/18429/16153 kHz, 13-02, 1000/1010/1020 UTC

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

Block No 1 : Link ID 45057 : 12th of month : Msg Number 200 : Msg Type 07145 : Group Count (?) 35
17764 09780 03430 38064 55673 04891 24271 12920

1be9 b001 4564 78c8 23ed [Link ID 45057, Date 12th, Serial #200]

0d66 2634 313d 1f43 7e11 ca48 9453 df86 7699 8f77
21c6 69e9 7f21 e5e3 cac9 db45 3992 7418 7355 6f5b
22ed 62bc a105 022d 65d1 22bd 54a5 67ac 67db f350
e21c d2f3 181a 2248 3bcf e054 d7b5 9f99 af37 7508
0fa7 5517 2436 56d6 f944 52ef 5c7e b470 9136 efc4
f179 e715 b17d d093 cdbc 92e3 4a3c dcc1 5652 73df
c920 ef8a 4d07 2b61 9dd3 3afd 9381 cf75 299f d9a4
2ace d073 2d41 44cb 835e cfee ab39 9d50 28e4 593c
166e 12a0 9ead a5de 9b67 75b4 baf1 6974 036a deb2
d5bd 5f3e 6028 bf81 5928 248b 8b13 f4b2 4cc3 9368
1aa4 4f91 3919 6d13 3aad 969d 9202 2ee0 5044 724b
5420 c25a 8b29 eea7 baf1 e738 cced 8346 4ba1 bd12
e1e8 8fd5 77dd b38a a321 92d7 42c0 3786 c270 4781
7ea8 245f 3151 f251 89b4 2606 c679 69e7 29c2 9224
16cd 0cf4 dd43 8a19 73fb 3965 1f83 e734 1887 f7dc
e2b6 5873 d910 b804 97b3 ce33 1af9 1079 200b 3add
6b79 aa1a 0e29 09d6 4771 0102 3bbe c6b4 36ba 8562
6dae 62b8 d8d6 709c f040 14df 2c10 4e16 f205 972e
27e9 f4a5 fc38 6937 3ec3 7397 c432 4945 2fb7 79d9
b270 5fdd c850 3b5c f1f5 cf08 2051 d6f2 1567 9881
b019 01e4 550a 6235 df01 a8d6 8875 56c7 553a 9164
f688 73c3 1f7b 8b04 a6fd 9bd2 bbef 751f 7486 058c
9cb3 a1e5 fc18 815f fc7b d2a3 6476 46c6 3aec 5e3d
942b f3e3 aef1 b5e6 4941 ccba eb35 a4dd ace7 6af2
6078 1c28 52dd 4352 f540 145a 1399 e6e8 3f25 d9a5
3045 ef09 c958 bd96 c843 b011 98a5 6dc4 27c5 3145
e592 6b6f 16df fcfc f21a 755c 01ce

20984/18429/16153 kHz, 14-02, 1000/1010/1020 UTC

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

Block No 1 : Link ID 45057 : 12th of month : Msg Number 200 : Msg Type 07145 : Group Count (?) 35
17764 09780 03430 38064 55673 04891 24271 12920

20984/18429/16153 kHz, 27-02, 1000/1010/1020 UTC

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

Block No 1 : Link ID 45057 : 12th of month : Msg Number 200 : Msg Type 07145 : Group Count (?) 35
17764 09780 03430 38064 55673 04891 24271 12920

[Link ID 45057, Date 12th, Serial #80]

1be9 b001 4564 78c8 23ed

0d66 2634 313d 1f43 7e11 ca48 9453 df86 7699 8f77
21c6 69e9 7f21 e5e3 cac9 db45 3992 7418 7355 6f5b
22ed 62bc a105 022d 65d1 22bd 54a5 67ac 67db f350
e21c d2f3 181a 2248 3bcf e054 d7b5 9f99 af37 7508
0fa7 5517 2436 56d6 f944 52ef 5c7e b470 9136 efc4
f179 e715 b17d d093 cdbc 92e3 4a3c dcc1 5652 73df
c920 ef8a 4d07 2b61 9dd3 3afd 9381 cf75 299f d9a4
2ace d073 2d41 44cb 835e cfee ab39 9d50 28e4 593c
166e 12a0 9ead a5de 9b67 75b4 baf1 6974 036a deb2
d5bd 5f3e 6028 bf81 5928 248b 8b13 f4b2 4cc3 9368
1aa4 4f91 3919 6d13 3aad 969d 9202 2ee0 5044 724b
5420 c25a 8b29 eea7 baf1 e738 cced 8346 4ba1 bd12
e1e8 8fd5 77dd b38a a321 92d7 42c0 3786 c270 4781
7ea8 245f 3151 f251 89b4 2606 c679 69e7 29c2 9224
16cd 0cf4 dd43 8a19 73fb 3965 1f83 e734 1887 f7dc
e2b6 5873 d910 b804 97b3 ce33 1af9 1079 200b 3add
6b79 aa1a 0e29 09d6 4771 0102 3bbe c6b4 36ba 8562
6dae 62b8 d8d6 709c f040 14df 2c10 4e16 f205 972e
27e9 f4a5 fc38 6937 3ec3 7397 c432 4945 2fb7 79d9
b270 5fdd c850 3b5c f1f5 cf08 2051 d6f2 1567 9881
b019 01e4 550a 6235 df01 a8d6 8875 56c7 553a 9164
f688 73c3 1f7b 8b04 a6fd 9bd2 bbef 751f 7486 058c
9cb3 a1e5 fc18 815f fc7b d2a3 6476 46c6 3aec 5e3d
942b f3e3 aef1 b5e6 4941 ccba eb35 a4dd ace7 6af2
6078 1c28 52dd 4352 f540 145a 1399 e6e8 3f25 d9a5
3045 ef09 c958 bd96 c843 b011 98a5 6dc4 27c5 3145
e592 6b6f 16df fcfc f21a 755c 01ce

Link 45075

15869 kHz, 03-02, 0820 UTC

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

Block No 1 : Link ID 45075 : 3rd of month : Msg Number 247 : Msg Type 07145 : Group Count (?) 4
28852 00000 00000 01800 19299 34722 00893 02590

19654/17461/15869 kHz, 10-02, 0800/0810/0820 UTC

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

Block No 1 : Link ID 45075 : 10th of month : Msg Number 095 : Msg Type 07145 : Group Count (?) 4
07380 00000 00000 00984 21930 02051 00893 37318

15869 kHz, 17-02, 0820 UTC

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

Block No 1 : Link ID 45075 : 17th of month : Msg Number 137 : Msg Type 07145 : Group Count (?) 4
55564 00000 00000 00217 09055 35195 00893 18041

18048/16260/14351 kHz, 13-02, 0900/0910/0920 UTC

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

Block No 1 : Link ID 45115 : 12th of month : Msg Number 062 : Msg Type 07145 : Group Count (?) 76
43244 03846 52574 38330 06443 33224 54578 09429

1be9 b03b a8ec 783e 4ced [Link ID 45115, Date 12th, Serial #62]

cd5e 0f06 c015 b82b 5068 0980 9307 3071 f2a3 7700
1776 6d57 7036 0d74 755b ab76 7330 6638 2b1f 7238
751f a3e8 c0d2 c7fa 6c46 e317 cba0 6e26 d16c d5e2
52e0 2cf2 8993 af14 bddf 3d9e a297 c06e 624f 5f9f
4fbb 1553 f9bb 58d7 7093 1727 123c a142 5eec 6d0d
6f12 2256 a4c1 7be6 f2e4 8b48 20f5 a772 da34 8c87
f4c8 c90c c789 aea6 6486 d1b0 4f40 a990 fab9

18048/16260/14351 kHz, 14-02, 0900/0910/0920 UTC

Total Message Size 13 blocks : This transmission contains one message.

Block No 1 : Link ID 45115 : 12th of month : Msg Number 062 : Msg Type 07145 : Group Count (?) 76
43244 03846 52574 38330 06443 33224 54578 09429

18048/16260/14351 kHz, 27-02/28-02, 0900/0910/0920 UTC

Block No 0 : Total Message Size 16 blocks : This transmission contains one message.

Block No 1 : Link ID 45114 : 26th of month : Msg Number 065 : Msg Type 07145 : Group Count (?) 94
48305 06086 53031 37045 57479 01350 03137 52541

11048/9244/7319 kHz, 01-02, 0700/0710/0720 UTC

11164/9164/7617 kHz, 01-02, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45137 : 29th of month : Msg Number 080 : Msg Type 07145 : Group Count (?) 33
25217 65075 16413 15977 07583 05482 38855 17880

11048/9244/7319 kHz, 01-02, 0700/0710/0720 UTC. Wrong shift: 500Hz. Undecodable

11164/9164/7617 kHz, 02-02, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45137 : 1st of month : Msg Number 082 : Msg Type 07145 : Group Count (?) 173
01956 60152 54523 32482 01146 35440 01385 61605

11164/9164/7617 kHz, 03-02, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45136 : 2nd of month : Msg Number 087 : Msg Type 07145 : Group Count (?) 11
51468 17571 32065 39307 58024 39579 64273 01488

11048/9244/7319 kHz, 04-02, 0700/0710/0720 UTC

11164/9164/7617 kHz, 04-02, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45137 : 3rd of month : Msg Number 090 : Msg Type 07145 : Group Count (?) 169
43052 19333 51663 06544 09959 02691 16467 35742

11048/9244/7319 kHz, 05-02, 0700/0710/0720 UTC

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

Block No 1 : Link ID 45137 : 5th of month : Msg Number 080 : Msg Type 07145 : Group Count (?) 4
31200 00000 00000 03691 09959 00282 00893 21135

11048/9244/7319 kHz, 08-02, 0700/0710/0720 UTC

11164/9164/7617 kHz, 04-02, 1200/1210/1220 UTC. Note: 1200 UTC 200/500Hz. Wrong shift

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

Block No 1 : Link ID 45136 : 5th of month : Msg Number 095 : Msg Type 07145 : Group Count (?) 209
35816 34903 48097 21065 65099 03372 57710 46029

11048/9244/7319 kHz, 09-02, 0700/0710/0720 UTC

11164/9164/7617 kHz, 09-02, 1200/1210/1220 UTC

Block No 0 : Total Message Size 63 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 8th of month : Msg Number 097 : Msg Type 07145 : Group Count (?) 123
25592 22691 65085 07902 58024 32770 42313 22391

11048/9244/7319 kHz, 10-02, 0700/0710/0720 UTC

11164/9164/7617 kHz, 10-02, 1200/1210/1220 UTC

Block No 0 : Total Message Size 57 blocks : This transmission contains one message.

Block No 1 : Link ID 45136 : 9th of month : Msg Number 102 : Msg Type 07145 : Group Count (?) 15
10356 55392 17035 15493 58024 38276 60601 37034

11048/9244/7319 kHz, 11-02, 0700/0710/0720 UTC

11164/9164/7617 kHz, 11-02, 1200/1210/1220 UTC

Block No 0 : Total Message Size 48 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 10th of month : Msg Number 105 : Msg Type 07145 : Group Count (?) 133
32540 45460 16622 32264 55182 02048 49795 17811

11048/9244/7319 kHz, 12-02, 0700/0710/0720 UTC

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

Block No 1 : Link ID 45136 : 12th of month : Msg Number 212 : Msg Type 07145 : Group Count (?) 4
63308 00000 00000 03125 55182 35294 00893 36449

11048/9244/7319 kHz, 15-02, 0700/0710/0720 UTC

11164/9164/7617 kHz, 15-02, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45136 : 12th of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 19
17896 64310 06162 38093 55182 07590 36640 61457

1be9 b050 45e8 786e 13e5 [Link ID 45136, Date 12th, Serial #110]

1812 fb36 c5ce 7382 d8d3 4dd8 b809 0414 61b3 030c
a2a8 389d f36e 481f ae9f 30d2 87e7 58a5 1d97 69b8
4f9c 3817 e2c0 ad98 a969 5ba3 a944 c00a 4d72 adb1
f4d5 dd20 9182 6f56 c9c9 8f8b 2e86 15f2 c06c 77b7
5615 501b 8ebe d599 04f7 1ee6 2cf1 5d2c ed89 30d2
c881 1504 d1cf 9756 5775 224b 6d57 5911 bb97 125c
5f19 909d 66c1 63d8 cea9 6543 c96d 6644 09da 0b33
c655 7954 7e2f 7516 4f46 f8c2 a9e5 3971 e410 afc6
430e 1a2f 196c 6366 dad0 4307 18bc 3c95 6dbe 268c
2a9f Odd6 77d2 5148 9eef a240 280b 220d 011e 1f67
a52b 925f ce8a d73a 0ee8 141e f206 9465 8e73 c0ed
cb1c 03d0 e4c0 2a37 71b5 2ecd e005 6725 3e24 3d22
7797 979f c7da 3736 bd5f d664 0e75 53e4 8097 1c7d
326b 4695 9bf5 d0c4 0400 e3f3 cf5b df85 bed6 42c4
c6b8 1773 06fd 2c59 1d5e f774 b335 3762 cb02 96e0
c245 668c 1631 ec25 8c37 8af8 3106 bcc7 2093 6a9a
1907 c14b 35d8 4968 7918 1157 58d9 6002 f54b 0810
6dba 162d 1055 89c6 de63 9a1d 9cc6 b2f3 f61f b626
99a7 99c5 6a82 5d01 9c5e 69fa abc9 3923 9be3 8d7e
4134 62d1 d90e 481d df87 917c c560 2ff7 a574 95b2
056b d015 42f0 8a3b 8b31 4d9d 12e2 1e5a f07d c7b6
207c 8425 5ea5 aad1 d879 4e60 eb51 ce22 1343 f91b
2632 95fa be66 4291 a414 5e06 a593 f005 cc7d 0007

9888 70c8 e7e9 0439 93fb 3447 5305 432a 8b83 4bf9
3ccb a750 9429 3dbc 4d06 e695 9660 e98f a609 3385
c500 e844 4000

11048/9244/7319 kHz, 16-02, 0700/0710/0720 UTC

11164/9164/7617 kHz, 16-02, 1200/1210/1220 UTC

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

Block No 1 : Link ID 45136 : 15th of month : Msg Number 112 : Msg Type 07145 : Group Count (?) 159
26844 00228 57708 16391 55182 35248 10116 23350

1be9 b050 68dc 9670 9ff3 [Link ID 45136, Date 15th, Serial #112]

e16c 00e4 9610 f245 5f89 1961 ad57 5b8a 9735 d4dd
7709 f6c0 445d 47c4 008b 95e8 6234 3384 f940 1250
50d9 94ae 1e51 2531 1664 0c66 1d05 2fbb d303 2835
0514 2118 0123 3029 2e9e 7546 66b2 7730 164e 7184
7587 12b4 11e4 9c60 0759 62e9 163e b981 dd8a ab2b
39a8 d94f 7f50 6885 2d0b caee 17b9 9ac8 ca6d eb07
d678 57de aa8f e114 54e1 5fce 2d7e 4092 d1ef 6eb7
82db 8877 db13 0743 aaf0 b94d 4649 6874 f1c8 1726
cf93 5ab9 7706 a21c 6201 9a77 791a e53e bb2b 5915
300c e6b9 5ad1 68f0 9b41 7c1d ce13 77bd cd97 2c71
2a18 5a78 ac6e 13a5 b0eb b516 d0f5 476c 9a9f 18ae
5a55 a5cc 3421 f7b3 6505 2775 5061 247b b74f 9051
49b8 7222 b86e 7f80 22cb 82be f88a 7bd0 7889 97b3
f0a2 2b86 983a 9b61 c164 d078 c5b8 1d4d 0471 612a
8a01 0c56 8959 062b f70e 3a00

1be9 b050 8c54 9673 d5ea [Link ID 45136, Date 15th, Serial #115]

6f8c 2c02 60e4 b4b2 93da 916d 47c1 56d0 7921 8112
5a40 500a fba2 c304 6b00 0ee0 820d 9f08 e281 126b
643c 3aed d949 1751 e0d6 09dc e647 585b 4c08 4cb0
9220 6b76 12ea a789 97e4 d562 d746 13af f233 d42e
b359 e096 9a06 9b62 3878 3143 3814 95a6 4701 a272
2a49 cfc4 d2c2 0093 5721 4471 6ae4 bb00 9c2b fd4e
2c93 2880 2fab 2830 6713 0c01 b929 236f 6e3c 2f25
87d6 48c9 a6a0 802d fc69 4475 e11c 9d44 2784 972f
6f6d 66bb 642c cd19 b976 f286 543b f4e5 3dcd eb77
926b 2720 2156 b78e 3c0e e9d9 d487 0219 b4c1 b1f6
9489 313c a49b 5c0a 517a 62c5 cf07 16b1 c20b 66cb
1ab7 bcc5 8d6f 3086 ae12 a519 8de8 0fdc 1d74 4721
4b57 79d5 d4ab bec1 011e f2b7 562b b320 70d7 b514
1da1 eb92 e8c1 da9a 35f3 4281 8ebf 9635 a8e6 811e
4d0b cbf3 8ac5 d87f fd4e d12a d761 6209 15b3 8b57
15a8 ef25 91f8 e51d 9e0c fa01 dcc9 6f0e 6c69 a8e4
680d 0a5e 2cb0 1f86 0659 b1bd 5568 2968 d1e1 6784
0fcb 174b 8f68 b78b 8b9b 05e5 5383 f89e dd0a add4
2de1 13e1 fd82 48e6 32a3 497a 36ef e0cd d050 6596
6981 823a 4576 58cc 2e34

11048/9244/7319 kHz, 17-02, 0700/0710/0720 UTC

11164/9164/7617 kHz, 17-02, 1200/1210/1220 UTC

Block No 0 : Total Message Size 44 blocks : This transmission contains one message.

Block No 1 : Link ID 45137 : 16th of month : Msg Number 117 : Msg Type 07145 : Group Count (?) 39
21416 64343 04765 10808 01146 37634 58906 46166

11048/9244/7319 kHz, 18-02, 0700/0710/0720 UTC

11164/9164/7617 kHz, 18-02, 1200/1210/1220 UTC

Block No 0 : Total Message Size 54 blocks : This transmission contains 2 messages.

Block No 1 : Link ID 45136 : 17th of month : Msg Number 120 : Msg Type 07145 : Group Count (?) 173
02788 54117 62710 24844 58024 00055 56113 14926

11048/9244/7319 kHz, 19-02, 0700/0710/0720 UTC

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

Block No 1 : Link ID 45136 : 19th of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4
63308 00000 00000 03774 55182 33362 00893 56400

11048/9244/7319 kHz, 22-02, 0700/0710/0720 UTC**11164/9164/7617 kHz, 22-02, 1200/1210/1220 UTC**

Block No 0 : Total Message Size 36 blocks : This transmission contains one message.

Block No 1 : Link ID 45136 : 19th of month : Msg Number 125 : Msg Type 07145 : Group Count (?) 233
64072 07075 36494 40618 55182 00873 47665 65130

11048/9244/7319 kHz, 24-02, 0700/0710/0720 UTC**11164/9164/7617 kHz, 24-02, 1200/1210/1220 UTC**

Block No 0 : Total Message Size 42 blocks : This transmission contains one message.

Block No 1 : Link ID 45136 : 20th of month : Msg Number 132 : Msg Type 07145 : Group Count (?) 23
02268 34455 24729 17926 58024 40652 24893 19870

11048/9244/7319 kHz, 25-02, 0700/0710/0720 UTC**11164/9164/7617 kHz, 25-02, 1200/1210/1220 UTC**

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

Block No 1 : Link ID 45137 : 24th of month : Msg Number 135 : Msg Type 07145 : Group Count (?) 11
33800 28691 38542 18016 01146 07424 62792 47633

11048/9244/7319 kHz, 26-02, 0700/0710/0720 UTC

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

Block No 1 : Link ID 45136 : 26th of month : Msg Number 237 : Msg Type 07145 : Group Count (?) 4
63309 00000 00000 02845 55182 33253 00893 24865

11048/9244/7319 kHz, 29-02, 0700/0710/0720 UTC**11164/9164/7617 kHz, 29-02, 1200/1210/1220 UTC**

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

Block No 1 : Link ID 45136 : 26th of month : Msg Number 140 : Msg Type 07145 : Group Count (?) 9
40353 13840 14242 30919 65099 05643 44174 11361

Link 49202

19984/17489/15621 kHz, 10-02, 1000/1010/1020 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains 3 messages.

Block No 1 : Link ID 49202 : 10th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
22796 00000 00000 02136 28271 35707 01021 43978

15621 kHz, 17-02, 1020 UTC

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

Block No 1 : Link ID 49202 : 17th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
22796 00000 00000 02203 28271 35395 00893 11345

Link 49237

16154/14483/12196 kHz, 04-02, 1220/1230/1240 UTC

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

Block No 1 : Link ID 49237 : 4th of month : Msg Number 022 : Msg Type 07145 : Group Count (?) 4
39656 00000 00000 02244 44260 35191 00893 63816

16154/14483/12196 kHz, 11-02, 1220/1230/1240 UTC

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

Block No 1 : Link ID 49237 : 11th of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4
50664 00000 00000 01177 39258 34355 00893 26051

16154/14483/12196 kHz, 18-02, 1220/1230/1240 UTC

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

Block No 1 : Link ID 49237 : 18th of month : Msg Number 117 : Msg Type 07145 : Group Count (?) 4
65352 00000 00000 00768 39258 33989 00893 65207**16154/14483/12196 kHz, 25-02, 1220/1230/1240 UTC**

Msg No 242/25th Type 07145 Link 49237

42368 00000 00000 01969 58545 35604 00893 61148

Link 53277

18235/16144/14519 kHz, 03-02, 1230/1240/1250 UTC

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

Block No 1 : Link ID 53277 : 3rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
63308 00000 00000 03662 19866 36580 00893 48187**18235/16144/14519 kHz, 17-02, 1230/1240/1250 UTC**

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

Block No 1 : Link ID 53277 : 17th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
39180 00000 00000 02348 15966 34095 00893 52528**X06 - Mazielka**

Freq	Date	UTC	Sequence	Freq	Date	UTC	Sequence	Freq	Date	UTC	Sequence
8038	3-2	0746	124536	12158	25-2	1628	564213	15687	16-2	0945	154263
8038	3-2	0824	124536	12177	26-2	0937	356412	16116	3-2	1107	215346
8038	3-2	1012	124536	12215	19-2	1016	361245	16117	8-2	0934	463125
8038	3-2	1059	124536	13419	10-2	0829	465132	16153	11-2	0844	153624
9923	8-2	0934	463125	13465	17-2	0924	362154	17430	17-2	0941	214356
10335	6-2	1329	154632	13465	17-2	0924	362154	17475	8-2	0824	145623
11483	10-2	0829	412356	13506	11-2	0941	164532	18206	16-2	0917	246531
12152	1-2	0836	432516	13517	8-2	0934	463125	18206	16-2	0921	246531
12157	16-2	0804	165423	15687	16-2	0941	154263	20837	19-2	0932	645321



Dutch Navy Ouddorp



XPA

Null messages

8123/7523/6823 kHz, 09-02, 1900/1920/1940 UTC

158 158 158 000
05270 00001 00000 10140

8123/7523/6823 kHz, 11-02, 1900/1920/1940 UTC

158 158 158 000
06004 00001 00000 10140

11409/13509/14609 kHz, 17-02, 0800/0820/0840 UTC

456 456 456 000
08690 00001 00000 10140

11409/13509/14609 kHz, 17-02, 0800/0820/0840 UTC

456 456 456 000
05085 00001 00000 10140

11409/13509/14609 kHz, 24-02, 0800/0820/0840 UTC

456 456 456 000
09249 00001 00000 10140

11409/13509/14609 kHz, 27-02, 0800/0820/0840 UTC

456 456 456 000
07236 00001 00000 10140

11409/13509/14609 kHz, 03-02/06-02, 0800/0820/0840 UTC

456 456 456 1 456 456 456 1 456 456 456 1
03388 00227 64958 54453 80619 88747 54120 01852 58281 70008
14213 63515 30724 78285 04146 01169 33326 08954 00693 21391
78644 39276 22576 93526 06559 55956 55386 98606 24123 61320
33530 98782 35760 93301 91600 72208 07613 52455 26952 40324
30429 25223 15916 83032 68353 01461 78585 78355 44354 45970
35769 99293 55353 56066 31017 67389 17941 36376 38064 50155
51002 21115 74086 50133 45704 39126 51306 66759 03019 08771
33435 32016 43564 03350 77425 38220 50474 38343 94276 15891
79796 26596 53587 50393 34230 86991 01160 55558 03091 87787
14109 52400 16663 08900 06086 84858 31464 38496 09136 30846
61085 39587 86921 00947 15618 47928 57736 94464 50595 24411
72086 35216 82574 66197 37610 35912 31023 39376 03395 43772
74959 95387 71175 67521 19841 64944 10562 74759 64192 46435
86134 31059 02972 09445 65095 58957 57591 40746 97913 62985
10316 56033 02587 12246 78686 58430 88952 78816 32573 88702
33481 47270 39231 78175 10318 24162 57830 35959 55731 03747
48094 47173 78172 03133 30399 02355 64559 23054 29705 91884
40246 00457 80265 56625 77553 21844 60741 38358 21532 48999
18804 56877 06861 59082 81561 46256 10951 58157 47631 70293
12947 24300 47429 06026 17664 76224 86486 38932 72329 79694
37279 63023 72554 15686 17352 79956 41520 76527 58361 73376
44427 92670 04654 07040 39731 58694 51019 44339 47061 66164
09543 41129 02028 05984 36827 70585 86154 44917 39571 20633

11409/13509/14609 kHz, 10-02/13-02, 0800/0820/0840 UTC

456 456 456 1 456 456 456 1 456 456 456 1
07163 00261 08319 39634 48284 95204 72435 27221 69769 88399
36373 96023 89585 45842 20079 14557 49622 56008 78354 63980
86850 47773 97563 34973 15245 70353 03942 25735 96129 99666
72843 79747 53583 31776 57257 84858 82621 07019 83401 14645
92915 22277 08890 76982 57740 61371 33207 07627 92358 76419
53437 85159 39107 86946 30068 33609 92081 78995 39906 68456
87950 03621 07686 52501 20302 59719 52104 03388 65174 17319
58315 71980 33233 58858 90560 20275 80556 33249 43517 55024
24369 32536 92033 11273 36532 29775 67798 17857 14487 99758
82045 44613 49855 37497 17891 76643 88720 19862 73446 12539
70025 72858 68765 77746 22189 69999 61909 43980 57647 88842
78118 86375 23608 50588 17722 26380 33679 48675 63213 30720
85612 70184 75599 40059 88021 59522 09525 81380 79940 75706
92278 85026 10248 62252 99294 97700 66303 03769 26662 93474
89639 70333 11399 09499 76784 65444 92299 99461 70904 10731
58878 29951 91441 64100 31143 44166 75715 38577 38262 15355
49005 36570 79305 44248 46446 38532 38794 09302 60423 90321
72901 40731 07458 83053 81437 75124 95965 16852 51426 57502
88085 85552 66659 80604 38782 17962 69112 87801 23583 27334
67350 19008 56450 81454 76218 68877 78613 92983 09449 29135
56658 65604 75438 28681 46391 82886 75120 02537 39556 79387
55272 04641 34444 28643 01262 16777 16704 14851 66091 33533
09603 52293 96768 06648 28784 93432 81506 20508 20243 63912
85144 88333 38390 19551 61344 44823 08907 70229 38453 55282
41390 54810 47009 53955 23379 25862 72435 60733 44563 68627
86708 36491 06556 86410 30520 29144 47254 99463 96487 45069
45987 87801 73471 50233

8123/7523/6823 kHz, 25-02, 1900/1920/1940 UTC

158 158 158 1
09138 00205 75285 36373 55795 88937 57527 45275 39235 73593
82411 49301 60376 26410 05865 13199 62336 77801 25164 16739
60308 28869 95305 27578 26311 87620 39798 54871 68258 23991
44028 19696 60282 10582 57649 16239 04263 45219 67948 32696
72570 70095 54891 32177 50162 20303 22885 61317 06516 59308
47662 08041 33820 13385 49937 36594 29537 67353 56200 53547
92549 61412 50414 69773 76932 21979 40121 01267 93048 53224
94999 66730 35644 03244 36421 33232 51736 66110 29259 53450
96385 92108 96156 83038 87403 02841 01028 86891 01922 45876
40363 79935 45359 08727 79594 73990 28423 10465 00784 08340
15380 06524 13886 47399 32666 72178 20187 55949 22168 00732
99165 89430 37489 26043 66429 25619 00361 12721 29689 34712
13305 07455 52416 85521 44088 05751 81686 59130 22073 71697
82153 36926 29908 74293 19980 61294 56690 57054 57341 27586
97664 94778 73699 06103 12321 58993 10429 43724 85805 57612
37432 88060 13903 24312 40460 95168 25715 08982 27464 42159
69286 75546 39458 37289 93234 34793 84045 73332 64780 46538
50904 16613 65627 42319 41604 85673 58519 73278 24416 15219
11773 17527 96929 12048 45668 09102 45567 99385 75629 28765
27192 54747 41915 95533 25471 65469 89564 95000 11556 91913
98634 97182 26929 83123 85515 79562 82478 03460

8123/7523/6823 kHz, 16-02/18-02, 1900/1920/1940 UTC

158 158 158 1 158 158 158 1 158 158 158 1
06273 00319 03541 03105 40219 82511 59360 44522 58358 30659
06311 34280 23319 29712 21332 43452 88431 28254 98304 64656
51818 28553 69300 23342 39570 94422 68876 44271 90119 74191
14153 22581 95422 32104 87960 94379 59872 12097 11654 06986
22545 45259 80761 40829 31031 10722 93333 85269 30235 63662
33155 32268 41322 98881 48908 93513 17490 83544 90303 82033
64683 12731 54718 68708 31414 00175 49284 66697 70059 03970
37619 04462 14248 25718 34152 36481 50752 84377 24477 20989
66918 48919 89825 47649 89185 51616 61920 91531 42280 37872
15793 04580 89282 40664 35791 19863 23014 93161 84141 71068
79970 37000 75223 00080 87325 88753 26568 96560 18474 82142
45320 13700 71897 19492 35281 61268 30243 81522 80921 69007
22983 09219 79116 70664 70748 52930 12660 87101 28446 11152
37317 60324 93133 03587 28160 68244 16718 88458 08241 20754
87907 90859 69917 93890 51847 03652 26656 99336 61330 65739
69639 33881 89988 84368 65239 16435 08058 72401 34775 99203
46276 02619 50956 36960 97425 26053 70211 10458 66708 68742
26738 18887 89217 19895 19665 26630 74154 08211 44654 94716
81848 01534 64816 74110 03373 25374 39067 21183 11106 25243
33669 25974 16840 74489 09613 57157 82814 48173 52113 64131
06738 25382 57500 62871 86843 17131 58710 07395 53061 31074
81708 98339 26751 18301 82866 62590 92223 95092 66702 91158
97869 12162 57177 02321 80007 69761 62494 56108 64988 56615
81620 89412 18127 01777 05323 03761 80056 35223 30732 44078
24006 45811 48472 94370 88168 79779 10211 09178 33740 08096
13855 13757 49005 15435 92292 90601 86313 01708 93003 83969
99948 30355 99755 41199 44699 56491 74521 77070 36698 36646
23991 75135 17435 62180 19038 58176 37634 00868 31467 24222
94629 01874 03577 16341 93749 35331 23687 20426 14127 29427
82168 10254 85900 69399 62985 19988 41220 52378 27296 79035
77589 81788 19822 88269 57377 71322 01625 57673 32228 56816
26507 16466 19833 97820 33589 72571 66896 33330 10114 35076
46235 73072



XPA2

15983/14783/13883 kHz, 03-02, 0800/0820/0840 UTC

05517 00001 00000 10140

14558/15958/17458 UTC, 05-02, 0700/0720/0740 UTC

05517 00001 00000 10140

15983/14783/13883 kHz, 09-02, 0800/0820/0840 UTC

05237 00001 00000 10140

16338/14538/13538 kHz, 09-02, 1500/1520/1540 UTC

03637 00001 00000 10140

15983/14783/13883 kHz, 10-02, 0800/0820/0840 UTC

01877 00001 00000 10140

18667/17419/16212 kHz, 12-02, 1400/1420/1440 UTC

03510 00001 00000 10140

18667/17419/16212 kHz, 13-02, 1400/1420/1440 UTC

05113 00001 00000 10140

15983/14783/13883 kHz, 15-02, 0800/0820/0840 UTC

06969 00001 00000 10140

14558/15958/17458 UTC, 16-02, 0700/0720/0740 UTC

05162 00001 00000 10140

16338/14538/13538 kHz, 23-02, 1500/1520/1540 UTC

06571 00001 00000 10040

14558/15958/17458 UTC, 26-02, 0700/0720/0740 UTC

09037 00001 00000 10140

15983/14783/13883 kHz, 01-02/02-02, 0800/0820/0840 UTC

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

18667/17419/16212 kHz, 05-02/06-02, 1400/1420/1440 UTC

05868 00089 12635 51007 81049 52825 30065 26707 12099 34520
65701 34255 48175 24872 15676 88733 11743 77510 39282 91286
99670 65637 20180 24313 60216 26676 69908 73844 96122 22862
96137 48016 49489 10183 53589 06437 47954 57505 02533 22246
12411 97608 83022 50589 54074 13621 58293 45763 47138 76137
08441 38681 68870 13839 81026 32974 20687 13207 01220 02662
39902 27481 58578 50958 24414 88599 22488 68570 35939 70002
97771 82392 86620 59157 50224 00356 71156 20532 06469 18528
12358 78010 83854 24324 68788 42614 14430 61547 43358 36185
69330 22654

14558/15958/17458 UTC, 09-02/12-02, 0700/0720/0740 UTC

04544 00139 84814 00343 92784 82994 80565 16416 80700 59253
76723 90888 16609 94188 64411 85529 57497 63036 50366 75994
44466 28137 02863 26057 16264 18122 25053 15543 30233 72907
47104 86061 22967 88685 84072 20786 71071 52903 36202 43132
71290 62479 81756 75409 72239 06623 43961 53514 15364 85693
99324 44125 86251 63624 94220 53519 94770 54685 61212 39770
65603 30030 21150 90570 82220 97030 82338 77370 80864 23517
72965 98935 58128 80841 42947 88855 40184 68898 08697 48120
19455 26337 47695 76199 77558 32048 65512 16853 96152 67160
56646 64245 97095 10221 24119 35937 11357 89325 25995 21309
58178 51991 80120 39757 85584 17581 93808 81500 54611 81398
95438 07808 88719 79309 98290 12501 45929 44051 06436 79146
22030 96879 94050 01417 15309 31317 96571 36584 16332 16713
51719 92558 89411 10852 60372 00132 67069 87272 22631 64315
23456 06125

16338/14538/13538 kHz, 14-02/16-02, 1500/1520/1540 UTC

09562 00097 06182 36298 04953 37886 32984 33898 52680 83087
57636 11664 59134 38616 16746 11918 77711 22391 86760 47608
80099 55219 77702 86733 92002 52527 79942 86578 31344 56154
46599 82007 18811 87658 66010 33920 95391 06599 76936 01791
07379 01294 30220 63660 11454 97169 48103 88061 22917 41397
11619 09695 38830 61934 02924 89946 92089 74447 43007 91166
69324 47722 35970 93352 98120 01731 13453 00020 30785 06575
74708 56242 12403 18703 37176 62044 26469 38438 12666 26714
81221 60769 79590 73566 52060 18995 03350 93110 86882 40502
25466 39613 80632 38155 11608 65802 65855 43928 00553 73362

8184/10256 kHz, 19-02, 1120/1130 UTC, unscheduled transmissions

03208 00028 63693 86780 06046 76304 24127 65127 50426 28375
63192 94271 42496 11416 25504 01773 92647 83207 22413 36465
13203 18051 86421 15928 89444 01371 46122 50515 9268_ 57091
55074

9283/10427 kHz, 19-02, 1220/1225 UTC, unscheduled transmissions

09811 00029 09731 67922 30736 15134 15114 06619 40544 29639
05698 25316 19158 47601 00738 34284 38833 59120 53657 59069
52619 08315 82352 31712 56496 63153 43689 01643 75062 28034
41934 04252

15983/14783/13883 kHz, 22-02, 0800/0820/0840 UTC

01437 00125 25553 00525 60632 31244 35366 00707 90278 55732
68832 64474 05866 51407 13584 35666 45734 91204 05499 08560
58468 74213 16027 43859 61539 96685 00597 41879 30144 15370
13989 01081 28487 59789 13957 33691 16014 33986 85553 48525
25419 59959 78130 54058 08978 24364 48731 48769 62543 51157
77940 89512 68565 22061 60612 87696 08958 26215 64675 87321
02770 57224 92216 72626 64526 73366 08221 83902 77769 15965
98979 65746 60771 36446 08939 39122 38491 90072 80313 77505
39373 22553 38411 22300 87024 00533 80549 02076 06441 33781
30709 65874 84467 02207 00555 94310 31519 04105 38512 99154
39549 43785 42903 38404 65779 04059 24635 85943 50301 41730
68300 11677 27770 86207 47518 69677 45520 11372 34870 60051
21263 88497 15366 65412 01341 33951 91802 55425

18667/17419/16212 kHz, 27-02, 1400/1420/1440 UTC

04723 00075 26498 34015 59167 21500 66552 28187 53168 44628
61918 28877 19521 16772 98363 00665 54076 00878 37301 83564
72595 86219 97681 18106 48825 78928 86584 65892 70344 52110
10694 05657 33445 13018 86542 42964 49698 51458 86931 50939
85304 20414 60801 91034 60544 88137 16186 48986 73698 76842
60504 13041 04745 27661 96031 40171 25147 89102 97005 40613
49536 47384 07151 56931 81627 86224 47646 05813 48175 83681
75263 09068 23934 58640 26324 82208 28695 11100

16338/14538/13538 kHz, 28-02, 1500/1520/1540 UTC

01127 00089 48085 51529 53925 44537 28735 98920 84776 57221
94497 52518 41999 70325 47630 62679 60398 61540 73569 06353
03159 55681 65224 11354 77969 97470 85981 87366 87828 88526
64253 54305 60739 45046 46194 85848 96085 60887 35467 78150
94692 33415 32444 79872 50621 87042 67734 90869 03410 52566
54188 11546 14818 00110 46238 78969 44813 31595 83029 66200
80282 95805 30168 73100 59116 09827 81271 74502 27332 96228
28911 66802 08993 01274 21426 23733 20126 52653 66739 87709
98999 13021 41323 79175 27807 62110 03353 90459 64713 12490
34820 63305



POL FSK / F11

16388 kHz, 02-02/04-02, 0730/0735 UTC

0433 0433 0433 0433 0433
88888 88888 35050 82983 64300 21252 33438 47718 76821 17965
02836 67601 45809 26558 48577 60373 08345 75256 62432 82023
82013 61995 65720 59884 11394 37421 44470 69957 12174 48970
35705 53574 81816 18492 54741 92513 75448 36349 88888 88888
00040 00040

9370 kHz, 03-02, 0845/0850 UTC

0353 0353 0353 0353 0353
88888 88888 53131 47998 60937 35486 17063 42126 47623 22234
65887 51480 14603 50862 43545 26699 17999 99736 53049 63095
36404 97907 81787 78112 24509 99358 72647 23014 71689 96982
02301 55660 83294 50595 88888 88888
00036 00036

9968 kHz, 05-02, 0815/0820 UTC

0446 0446 0446 0446 0446
88888 88888 24345 07185 99012 08498 86931 78788 93908 16392
59363 96629 69826 32301 95371 63197 37528 66283 72315 35600
59872 12742 74677 39150 50942 36703 84843 40983 95857 80314
48603 32623 11308 75766 35563 17567 75566 44700 88888 88888
00040 00040

7499 kHz, 09-02/12-02, 0900/0905 UTC

0554 0554 0554 0554 0554
88888 88888 14279 78104 72406 93170 08119 63711 99766 46815
18234 33651 79714 39865 59567 99121 82056 40276 44186 00447
72820 81482 96907 95562 80764 57891 95872 51702 77969 25461
11841 63597 11422 23147 88888 88888
00036 00036

9179 kHz, 09-02/13-02, 1610/1615 UTC

0877 0877 0877 0877 0877
88888 88888 72918 21727 68585 19484 87859 76380 85745 44587
15946 02614 84436 03574 26506 80191 97552 58945 09432 01667
90575 49378 66039 97246 57486 22073 50254 74799 35153 15741
86238 27609 27195 79603 63638 70430 56898 35534 04258 85477
88888 88888
00042 00042

7772 kHz, 11-02, 0630/0635 UTC

0574 0574 0574 0574 0574
 88888 88888 57878 98480 10730 30281 28276 21317 43194 87313
 36602 84903 16230 89175 42147 93120 79348 01763 84357 91915
 20981 39758 82552 04221 44109 33469 34285 21276 65840 74832
 03122 39892 16310 13141 22748 38084 88888 88888
 00038 00038

6836 kHz, 15-02/18-02, 0800/0805 UTC

0434 0434 0434 0434 0434
 88888 88888 65981 70039 94983 34536 20650 04906 28911 34997
 22469 74862 30772 35799 74053 48383 95568 61970 18539 31396
 58704 59736 10529 40797 37919 69788 80969 38178 96985 04633
 72378 64721 88888 88888
 00034 00034

9370 kHz, 17-02, between 0845 and 1032 UTC.

I had my radio and decoder on 9370 kHz while a was away and found very odd decoded messages when I returned. Instead of the usual repeat of "0353" at 0850 UTC I found two other messages. The last one is the same as sent on 16 and 17 Feb. on 7863 kHz at 1150/1155 UTC. When exactly the 2nd and 3rd messages were sent is unknown to me. Sometime between 0845 and 1032 UTC.

Below are the message in raw format and cleaned up

_____10***** 0353 0353 0353 0353 0353 ABC D E F*H00000 00000 00000 00000 00000 00000 00000 00000 00000
 00000 NNNNNNNNNNNNNNNNNNNNNNN

_____10***** 0779 0779 0779 0779 0779 ABC D E F*H44444 58882 22222 23333 63666 55888 85555 55555 55555
 55555 55555 55555 55555 55555 55555 55555 55555 55555 55555 11111 NNNNNNNNNNNNNNNNNNNNN

_____010***** 0325 0325 0325 0325 0325 ABC D E F*H88888 88888 60978 51045 30277 45872 59909 37898 91458
 07838 39257 00771 10886 12855 08773 62933 48860 62790 00554 24337 24057 77924 36386 74430 28051 20376 76247 03314
 61717 45957 11201 3845 15755 91772 17878 07065 88888 88888 00038 00038 NNNNNNNNNNNNNNNNNNNNN

0353 0353 0353 0353 0353
 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000

0779 0779 0779 0779 0779
 44444 58882 22222 23333 63666 55888 85555 55555 55555 55555
 55555 55555 55555 55555 55555 55555 55555 55555 55555 11111

0325 0325 0325 0325 0325
 88888 88888 60978 51045 30277 45872 59909 37898 91458 07838
 39257 00771 10886 12855 08773 62933 48860 62790 00554 24337
 24057 77924 36386 74430 28051 20376 76247 03314 61717 45957
 11801 30845 15755 91772 17878 07065 88888 88888
 00038 00038

7863 kHz, 16-02/17-02, 1150/1155 UTC

0325 0325 0325 0325 0325
 88888 88888 60978 51045 30277 45872 59909 37898 91458 07838
 39257 00771 10886 12855 08773 62933 48860 62790 00554 24337
 24057 77924 36386 74430 28051 20376 76247 03314 61717 45957
 11801 30845 15755 91772 17878 07065 88888 88888
 00038 00038

10359 kHz, 26-02, 0655/0700 UTC

0684 0684 0684 0684 0684

88888 88888 59074 48802 51192 21331 62945 17662 18668 38849

96650 93477 42524 02174 68374 02245 97936 42262 34973 89218

36754 60527 21280 22966 69765 48425 10571 50231 50297 25933

72261 11043 31350 98481 86415 94206 43152 03579 88888 88888

00040 00040



Q26

Mode: 4+4 QPSK 75/3000 LSB

4243//9054 kHz, 17-02, 1140 UTC. Signal was a bit garbled.

AHR MSG

NR34 140 35 0217 1603 --

202 017 *26 314 002 773 351 938 353 4

336 938 401 446 341 932 445 483 382 341

932 UPE ETQ OEI ETE 341 938

401 446 341 932 4453 782 341 932 381

005 773 944 511 752 351 938 353 411 342

938 401 446+342 939 445 483 382 932

3812 932

445 /8 342 932 381 017 326 319 002

944 003 773 327 351 938QQ E36 938

401 404 327 4!) 9

932 445 328 353 401 445

535 UUE ETQ 938 353 411

336 9381401 44 932 4/5 483 382 341

932 381 003 773 351#938 353 411 341 938

401 446 341 932 445 483 382 341 932 381

005 773.944 511 752 351 938 35=1

93 105 080 316 342 932

445 483 388 335 411 336 938

401 446 3419932 445 328 353 401 445 329-1

353 240 354 401 445 932 446 771 005

773 944 511 752 327 351 938 353 411 342

938 401 446 342 932 13 ."& &-

,4083 19 35 0217 1640 --

2-\$ 356 382:VE 19 35:0217 1640 01 00P186 383 938 381 &

-#4 :2 WK &&Q***#4 ."&7 64 PSE

QH 7 1512 -

?0817 326 314 352 411 938 415 272

941 435 381 002 00

."&08 200 017 326 314 352 8 =1\$ 272

941 435 381 002 003 773 436 383 483 &

AHR MSG

,434 140 35 0217 1603 --

202 017 (26 314 002 873 351 938 353 411

336 938 401 446 341 932 445 483 382 341

932 381 003 773 351 938 353Q 341

446 341 445 483 382 341 932 381

005 773 944 511 752 351 938 353 411 -42

938 401 446+342 932 445 483 382 342 93?

62 342 932 381 017 326 319 002

944 003 773 327 3501)3! 3QQME36 938

401 44="4413284353 401 4 944 511 752 327 ?

111:342

938 401 44: 393228 353 401 445
 329 3*3P ETR RPQ RRT 932 446 771 437 -*,4
 4 147 35 0217)1603 -PW 037 326 314 002 773 351 938 353 411
 336 9*8=401 44?ERTTRIE EIW ER1
 932 381 003 773 351 938 353 411 341 938
 404W RRT RIE EIW ERQ OEW EIQ
 PP5 773 944 511 752 351 938 35.8 40#19
 E ETQVOEI ETE RQQ R46 342 932
 &4388), 2ET3 411 336 938
 401 446 341 9445 328 353 401 445 329-1
 353 240 354 401 445 932 446 771 437 005
 773 944 511 752 327 351 935 353 411 342
 938 401 446 342 932 328 8129 353 240 354 4 &-
 ,4083 19 35 0217A3 356 3 19 3550217 16401 PPE 938 381 &
 AHR CW WK HR
 19 35 0217 1512 --
 508 017 326 314 352 411 938 415 272
 941 435 381 002 0
 3."& 9 19 35 0217 1512 --
 508 200 017 326 314 352 411 938 4)
 941 435 381 002 003 7EII
 AHR ."& ,434 140 35 0217 1603 --
 202 017 (+6 314 002 74TQ OEI 353
 336 938 401 446 341 932 445 483 382 341
 932 381 003 773 351 938 353 411 341
 44 445 483 382 341 932 381
 005 773 944 511 752 ?51 938 353 411 -42
 938 401 446+342 932 445 483 382W OE259
 &0:6012 342 932 381 017 326 319 002
 944 003 773 327 351 93 9311 336 938
 401 44=328 353 401 (45\$3\$09427 1 3
 OEI RPQ JROEW RR5 328 353 401 445
 329 3*30 354 401 445 932 446 771 /37 *
 0217)#603 - UUE ETQ OEI 353 411
 336 938)401 44?45 483 382 341
 932 381 003 773 351#938 353 411 341 938
 402 445 483 382 341 932 381
 005 7735944 511 752 351 938 35
 938 =0*03RIE 382 34+ (2
 -81-33 411 446 342 932
 045 483 38")33Q8
 401 446 341 932 445 328 353 401 445 329-1
 353 240R RPQ 445 932 446 771 005
 773 944 511 752 327 351 938 353 411 342
 938 401 446 342 932 445 328 85- 401 429 353 240 354 4
 ,4083 15 0217 356 4138)38 33
 ,(&083 19 3217 1640 (01 4486 383 938 381 &
 AHR CW WK HR MRGM TORYR PSE CY
 QQPWQU QTQW AA
 PI PQU EWY EQR ETW RQQ OEI RQT WUW
 ORQ RET EIQ PPW PPE
 EMSG? R089 19 35 0217 1512 --
 508-200 017 326 314 352 411 938 41
 ORQ RET EIQ PPW PPE UUE REY EIE RIE G
 AHR MSG
 NR34 140 35 0217 1603 --
 202 017 326 314 002 773 351 938 353

Freq	Date	UTC	Details
4243	13-2	1145	Message //9054 kHz
4243	17-2	1140	AHR MSG NR34 140 35 0217 1603 -- 202 017 *26 314 002 773 351 938 353 4 ... //9054 kHz
4243	18-2	1140	Messages //9054 kHz
4243	25-2	1145	Message //9054 kHz
4243	26-2	1144	Messages //9054 kHz
7553	8-2	0910	Messages
8073	6-2	0001	Messages
8073	6-2	1131	Messages
8073	7-2	0001	Messages
8073	7-2	1131	Messages
8073	8-2	0001	Messages
8073	9-2	1131	Messages
8073	10-2	0001	Message
8073	13-2	1131	Message
8073	14-2	1130	Messages
8073	16-2	1131	Message
8073	17-2	1129	Message
8073	18-2	1130	Messages
8073	21-2	0002	Messages
8073	23-2	1131	Messages
8073	24-2	1137	Messages
8073	25-2	1131	Message
8073	26-2	0002	Message
8073	26-2	1130	Message
8073	27-2	0001	Messages
8073	27-2	1137	Messages
9053	21-2	2341	Messages
9053	23-2	1150	Messages
9054	13-2	1145	Message //4243 kHz
9054	17-2	1140	AHR MSG NR34 140 35 0217 1603 -- 202 017 *26 314 002 773 351 938 353 4 ... //4243 kHz
9054	18-2	1140	Messages //4243 kHz
9054	20-2	2343	Messages
9054	25-2	1145	Message //4243 kHz
9054	25-2	2339	Message
9054	26-2	1144	Messages //4243 kHz
9054	26-2	2341	Messages
9054	27-2	1144	Messages



North Korean diplomatic stations

12222 kHz, 20-2, 0729 UTC North Korean diplo DPRK-ARQ 600/600 LSB
12222 kHz, 27-2, 0803 UTC North Korean diplo DPRK-ARQ 600/600 LSB



Czech diplo

10311.5 kHz, 15-2, 1528 UTC
 12210 kHz, 12-2, 0745 UTC
 12216 kHz, 15-2, 0815 UTC

OLZ88: Czech diplo Praha channel marker
 Czech Diplo. CN=ZPRAGA01/O=ZSMZV
 OLZ88: Czech diplo Praha

F1B 100/200
 Pactor-III
 Pactor III 200/800

UTILITY ROUND-UP



Armenian Air Defense

6450 kHz, 16-2, 0622 UTC Armenian Air Defense. Bearings



Unid stations

4676 kHz, 07-02, 1233 UTC

VVV NA2 DE XVJ QSA ? K
 VVV NA2 DE XVJ QSA ? (x3) K
 VVV NA2 DE XVJ QSA 0 QSA 0 FF 27 27 K
 VVV NA2 DE XVJ QSA 0 QSA 0 FF 27 27
 VVV NA2 DE XVJ QSA 0 QSA 0 QTC
 VVV NA2 DE XVJ QSA 0 QSA 0 QTC
 VVV NA2 DE XVJ QSA 0 QSA 0 W45 = =
 67464 439.757 095 ...299 85952 20488 ..15 0704..
 026472447 EEEE 4..89 ..649 (Fading)

13245 kHz, 11-2, 0830 UTC

771 771 771 695 51 ... 0000

RUSSIAN MILITARY TRANSCRIPTS

Excerpts from logs submitted by André, JP, and Tom.



RMv/RNv/RNAv/RAv *Russian military stations*

Frequency: various Mode: USB / voice

Russian Military – RMv

6258 kHz, 22-02, 0525 UTC SMIRNO-59 clg out stations
6990 kHz, 22-02, 0750 UTC VOLTA-54 clg out stations
6930 kHz, 22-02, 0810 UTC VOLTA-54 clg out stations
2783 kHz, 23-02, 0402 UTC LAMPA-21 clg out stations
6993 kHz, 26-02, 0548 UTC FOSCOR-51 clg out stations
3325 kHz, 26-02, 0358 UTC TANGAT-58 clg PAVLIN-85 SOKOL-51

Russian Navy - RNv

4944 kHz, 24-02, 0844 UTC YAVERKA (RHC86) wkg VESTNIK (RMP)
4944 kHz, 25-02, 0626 UTC KOMUNA (RGX80) wkg VESTNIK (RMP)

Russian Air Defense – RADv

4453 kHz, 24-02, 1443 UTC Tracking (Russian Voice)



M32 *Russian / CIS Military CW Stations*

5400 kHz, 05-02, 0320 UTC

761 975 245 741 144 993 364 828 897 365 K
VTFA DE YMAP K
QTC K
YMAP 646 8 5 0605 646 =
ZET 170 =
FFFZ RPT TXT =
FFF3T238 1116 1111 30 70 0505 QTC K
YMAP 599 18 5 0618 599 =
ZQS 170 =
5842 2239 7407 7295 8757 1329 3515 (Cont'd)

5202 kHz, 05-02, 1318 UTC

RPT 19 K
RPT 21 K
S42G R 924 K

5286 kHz, 05-02, 1320 UTC

KSTQ DE 8DSO R 924 ? K
R K

5343 kHz, 05-02, 1724 UTC

OK AS 3 K
RMP de RHI99 K (RHI99 is Landing ship Aleksandr Shabalin)
RHI99 DE RMP ZKM ? K
RMP DE RHI99 ZKM ZGR K
RMP ZDS GNGO ZZT

5595 kHz, 05-02, 1739 UTC

XPLM (x3) QTC AR (Cont'd)

XPLM 580 27 5 2040 580 =

710 =

RUD4I AMQUG OSBNV 'UJZSD (Cont'd)

5433 kHz, 05-02, 2001 UTC

GN7V DE L4LN K

GN7V DE L4LN K

GN7V DE L4LN K

3584 kHz, 07-02, 1317 UTC, copied by André

Simultaneous transmission of 8 frequencies (steps 1200 Hz): see image

AYR8 de YFJA QTC 491 27 7 1615 491 = 030=

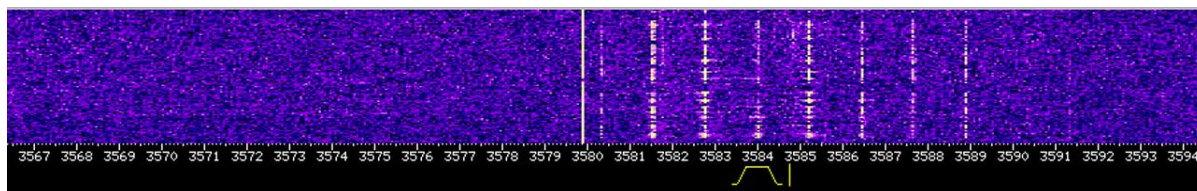
09133 61504 47917 14182 28702 41031 42303 10738 20182 58068

59065 69196 13462 80236 04219 13591 00063 37082 16972 79345

89055 47410 80625 54590 06219 07025 =

Repeat message 2x

QLN AR



3580.4 kHz - 3581.6 kHz - 3582.8 kHz - 3584.0 kHz - 3585.2 kHz - 3586.4 kHz - 3587.6 kHz - 3588.8 kHz

13904 kHz, 11-02, 0808 UTC

XXX WLHN 91792 42204 44352 015 =

DDDDD OXYJL ÂYDCÔ ESQNP FLNSA ÂYDCÔ AKÔYM ZLOCO VWCKP OAPEU PFZÂL SBHAI SBWKZ CBUNY HDQYG ÂÂPWP 166 K

5387 kHz, 11-02, 0940 UTC

XXXX 5J7Q 5J7Q 83785 WE\HENXE 7059 2389 K

5217 kHz, 14-02, 1418, i.p.

DE LWLN QSA ? K

RPT

NIP2 DE LWLN QSA ? K

LWLN DE NIP2 QSA 1 QSA ? K

NIP2 QSA 2 K

OK K

R K

CRWL DE LWLN QSA ? K

JC2Q DE LWLN QSA ? K

DE JC2Q QSA 2 QSA ? K

JC2Q QSA 4 K

OK K

R K

3NFH DE LWLN QSA ? K

5750 kHz, 14-02, 1424 UTC, i.p.

2ZQ9(x3) QTC AR
704 = EEEEEEEEE
VVV
2ZQ9 (x3) QTC AR
2ZQ9 (X3) 704 =
79391 18936 09439 99365 46159 86420 06581 69027 51837 21010
59139 28748 94702 17780 63907 17674 40843 91674 73536 43816
24097 76510 14022 AR
2ZQ9 (x3) QTC AR
2ZQ9 (x3) 418 =
29601 27208 72935 90758 60465 22426 77461 74047 98854 20565
35379 69656 40458 26869 26749 69242 46635 59268 17788 37729
32505 46459 84068 14024 AR
2ZQ9 (x3) QTC AR
2ZQ9 (x3) 001 =
PPPPP LT\OTI SARQW BPHIF OCMIU BIPHI (Cont'd)
AR
VVV

5386 kHz, 14-02, 1441 UTC, i.p.

DE D5QD RPT PBL K
QVXP DE D5QD PR EEEEEEEEE
QVXP DE D5QD RPT PBL K
D5QD R 49 EEEEE
D5QD R 649 K

3348 kHz, 14-02, 1830 UTC, i.p.

8B7Q DE HN2S K
R K
MZQB DE HN2S K
EYNB DE HN2S K
R K

10553 kHz, 24-02, 1248 UTC RGT77: XXX VN6B 73101 WINTIK 5077 8508 K
6883 kHz, 24-02, 1307 UTC RGT77: XXX VN6B 42070 SEWOBUR 6441 4123 K //6857 kHz
6857 kHz, 24-02, 1307 UTC RGT77: XXX VN6B 42070 SEWOBUR 6441 4123 K //6883 kHz



M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

1827.5 kHz, 07-02, 1501 UTC, RJD99 : Russian Navy Northern Fleet HQ, Severodvinsk

RMU de RJD99 QTC 879544 68 7 1730 544 = PROGNOZ POGODYWETER ŮVNYJ ŮGO WOSTOŮNYJ 12/17 M/S PRIBREVNOJ ZONE
NOWOJ ZEMLI BORA 20/25 M/S STEPENX WOLNENIÂ 4/5 BALLOW OBLAŮNOSTX 6/9 BALLOW 300/600 M WREMENAMI SNEG
WIDIMOSTX 4/10 KM SNEGE 2/4 KM TEMP ERATURA MINUS 1 MINUS 6 GRADUSOW PRIBREVNOJ ZONE MINUS 7 MINUS 12
GRADUSOW RLN NORMALXNNAÂ AR

1827.5 kHz, 07-02, 1517 UTC, RJD99 : Russian Navy Northern Fleet HQ, Severodvinsk

RMU de RJD99 QTC 544 68 7 1730 544 = PROGNOZ POGODY S19 ŮAS 7 FEWRALÂ DO 19 ŮAS 8 FEWRALÂ BELOM MORE WETER
ŮVNYJ ŮGO ZAPADNYJ NAŮALE SROKA ŮVNYJ ŮGO WOSTOŮNYJ 7/12 M/S PORYWY 16 M/S UTROM DNEM 73 RAJONE 9/14 M/S
PORYWY 19 M/S OBLAŮNOSTX 6/9 BALLOW WYSOTOJ 300/600 M MESTAMI SNEG WIDIMOSTX 4/10 KM NOŮXŮ SNEGE 2/4 KM
TEMPERATURA NOŮXŮ MINUS 4 MINUS 8 GRADUSOW DNEM 0 MINUS 4 GRADUSA RLN NORMALXNNAÂ SNEGE PONIVENNAÂ =
(repeated twice) AR

3547 kHz, 07-02, 1501 UTC

RGR99 RGR99 ZSA ? K (

RGR99 ZSA ? K (Stations also on this frequency but mostly unreadable)

RGR87 DE RMW46 ZSA 3 R K

RGR89 DE RMW46 ZSA 4 R K

RGR90 DE RMW46 ZSA 2 R K

RMG91 de RMW46 ZSA 4 R K

RGR92 DE RMW46 ZSA . R K

RFH4. DE RMW46 ZSA 4 R K

RGR93 DE RMW46 ZSA . R K

8460 kHz

08-02, 0851 UTC XXX RJC66 00129 GREHOHIOS 9513 7919 K

08-02, 0934 UTC XXX RJC66 00129 GREHOHIOS 9513 7919 K

10-02, 1215 UTC XXX REO 21752 WSTAWOÏNYJ 0409 4309 K

10-02, 1235 UTC XXX RJD69 RJC66 RJC66 WOŁOÏUVKA 18320 43016 K

7523 kHz, 12-02, 1132 UTC, i.p.

RWW34 DE RMW32 ZSA 2 R K

RMW36 R XXX. ZSA 2 K

RMW36 DE RMW32 ZSA 4 R K

RMW44 R XXX ZSA 2 K

RMW44 DE RMW32 ZSA 4 R K

RMW46 ...

RMW46 DE R32 ZSA 2 R K

RKL91 R XXX ZSA 2 K

RKL91 DE RMW32 ZSA 4 R K

3547 kHz, 15-02, 1509 UTC

RGR97 DE RMW46 ZSA ? K

RMW46 DE RGR97 ZSA 4 ZSA ? K

RMW46 ZSA 4 R K

RGR98 DE RMW46 ZSA ? K

RMW46 DE RGR98 ZSA 4 K

RMW46 ZSA 5 R K

RDQ81 DE RMW46 ZSA ? K

RMW46 DE RDQ81 ZSA . K

RMW46 ZSA 1 R K

RMW46 ZSA4 R K

8460 kHz, 15-02, 0945 UTC

XXX REO 83647 LETOCIRK 5820 0209 K

3890.5 kHz, 22-02, 0532 UTC

XXX RLO 41936 PYVOGLAZ 7169 3614 K

5929 kHz, 26-02, 0554 UTC

XXX RLO ÉLASTIÏNYJ 01 1040 060 090 0847 K

5188.5 kHz, 15-02, 1547 UTC

RCV wkg RIR98

9308 kHz, 25-02, 1558 UTC

XXX RJV 83249 NANOSEKUNDA 6758 4601 K

8460 kHz, 22-02, 1852 UTC

RHO62: QTC 398 38 22 2151 398 = FOR RJH45 RJH48 RJH74 RJD38 = K

KXX 22026 1800/ 36135 03031 88881 20000 30079 43412 20020 30064

43401 20060 30045 43431 20092 35158 43455 20125 30034 43500 20200

30148 43515 20250 30152 43515 20500 30128 43519 20557 30120 43598 22033 =

AR RHO62 K

9308 kHz, 23-02, 0610 UTC

RCV de RIR98 QTC 525 19 23 0900 525 = SML FOR RJE73 RJH45 =

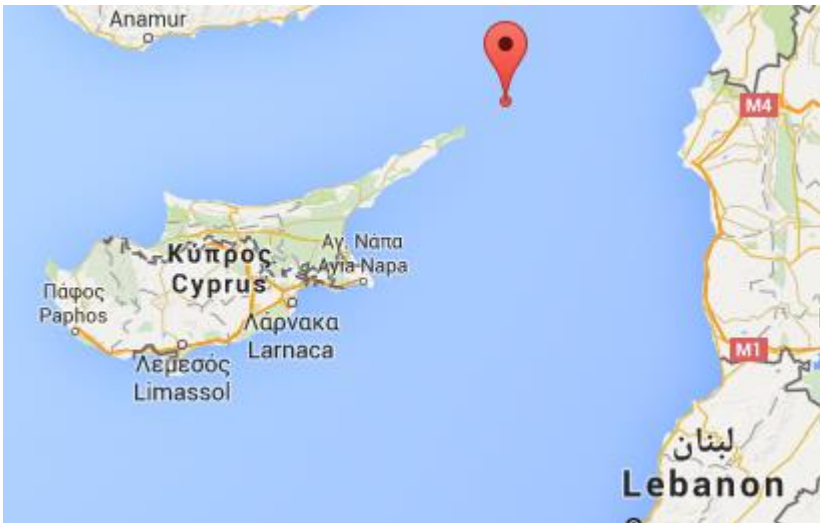
23061 99358 10348 41498 30701 10150 40140 52002 70200 83101 22200 00187 20000 88000 80000 23015 = AR

9308 kHz, 23-02, 0610 UTC

RCV de RIR98 QTC 525 19 23 0900 525 = SML FOR RJE73 RJH45 =

23061 99358 10348 41498 30701 10150 40140 52002 70200 83101 22200 00187 20000 88000 80000 23015 = AR

Location



9308 kHz, 25-02, 0602 UTC

RCV de RIR98 QTC 464 19 25 0900 464 = SML FOR RJE73 RJH45 =

25061 99358 10358 41498 30702 10150 40170 57003 70200 83310 22200 00188 20000 88000 80000 25015 = AR RIR98 K

Location

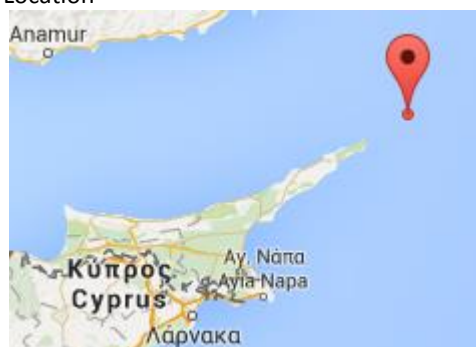


9308 kHz, 26-02, 0606 UTC

RCV de RIR98 QTC 257 19 26 0900 257 = SML FOR RJE73 RJH45 =

26061 99358 10348 41598 30901 10160 40150 57002 70200 83101 22200 00189 20000 88000 80000 26015 = AR RIR98 K

Location



9308 kHz, 25-02, 0602 UTC

RCV de RIR98 QTC 464 19 25 0900 464 = SML FOR RJE73 RJH45 =

25061 99358 10358 41498 30702 10150 40170 57003 70200 83310 22200 00188 20000 88000 80000 25015 = AR RIR98 K

Location



9308 kHz, 26-02, 0606 UTC

RCV de RIR98 QTC 257 19 26 0900 257 = SML FOR RJE73 RJH45 =

26061 99358 10348 41598 30901 10160 40150 57002 70200 83101 22200 00189 20000 88000 80000 26015 = AR RIR98 K



M32b
Russian Naval Aviation
Aviatsiya Voenno-morskogo Flota Rossii

4979 kHz, 06-01, 1906 UTC

RBL66 DE DE RAL2 K

RAL2 DE RBL66 QSA 4 K

QSA 4 QRU VA

QRU SK

RIB2 DE RAL2 QSA ? K

RGH2 DE RAL2 QSA ? K

RAL2 DE RGH2 QSA NO NO K

RMW2 DE RAL2 QSA ? K

RAL2 DE RMW2 QSA 1 K

QSA 1 AA NO QRU VA

QRU VA

RIB2 DE RAL2 QSA ? K

RGH2 DE RAL2 QSA ? K

RAL2 DE RGH2 QSA NO NO K

RGH2 DE RAL2 QSA 1 AA NO QRU VA

RIB2 DE RAL2 QSA ? K



M32c
Russian Air Force
Voyenno-vozdushnye sily Rossii

7314 kHz, REA4 Russian Air Force

05-02, 0829 UTC XXX 1QRF 49226 DOKUÔNYJ 6736 5780 PERLOKRAJ 0415 4398 K
 XXX 1QRF 53417 NÛHOLAZ 6590 5575 K
 XXX 1QRF 05802 KROWOSOS 3740 6406 LUKOLAK 5201 4385 K
 XXX 1QRF 33775 KINOMONTAV 8347 3319 K
 XXX 1QRF 53051 REANIMACIÂ 8361 6229 K
 XXXX JUE4 MJUR 08098 049 = DDDD OXYJL HQÛPV ACIEW ÔYDE+ ACIEW ÔYDE+ ACIEW ÔYDE+ ...
 15-02, 0939 UTC XXX 1 QRF 25274 GIGROGRAF 6383 0804 SHWATYWANXE 4412 3923 MUSSOBUÂN 6048 8455 K
 19-02, 0855 UTC XXX 1QRF 11817 PLAQOPARÂ 4864 7086 K (19Feb16) (F5JBR)
 19-02, 0922 UTC XXX 1QRF 07292 SUDOVID 9903 1118 K (19Feb16) (F5JBR)

8112 kHz, 11-02, 0640 UTC W-markers: Tu-95MS Bear H net
 8131 kHz, 11-02, 0711 UTC Voice traffic Tu-95MS Bear H net
 5827 kHz, 11-02, 0652 UTC Voice traffic Tu-95MS Bear H net
 8112 kHz, 11-02, 1442 UTC W-markers: Tu-95MS Bear H net
 8112 kHz, 12-02, 0920 UTC W-markers: Tu-95MS Bear H net
 8112 kHz, 16-02, 0600 UTC W-markers: Tu-95MS Bear H net
 8112 kHz, 17-02, 1320 UTC W-markers: Tu-95MS Bear H net



EMERGENCY ACTION MESSAGES
& FOXTROT MESSAGES

The EAMs were copied on: 4724, 8992, 11175 kHz

05-02, 1509 UTC Windpipe 36 chr EAM SG3NJU QHEZYHIPC3FX47CXDFYQIO23EASUOO
 05-02, 1512 UTC Windpipe 36 chr EAM SG3NJU QHEZYHIPC3FX47CXDFYQIO23EASUOO
 12-02, 1456 UTC Shining 30 chr EAM DMKGTL YOK3MNZMG7ZRDWGF3ZZNGGX2
 12-02, 1508 UTC Shining 30 chr EAM DMKGTL YOK3MNZMG7ZRDWGF3ZZNGGX2
 14-02, 0933 UTC Rashman 30 chr EAM DMWFE7 7OSOF6HWOOTAY4QNUD2HADVB
 14-02, 0943 UTC Rashman 30 chr EAM DMNSYL AWW7XTE43HWCREIVOZEDO6KL
 15-02, 0740 UTC Arch Ship 30 chr EAM DMCI22 FO4PW4AVLLAKAAY2NZPTHEGN
 15-02, 1404 UTC Jaywalk 30 chr EAM DMA7OD XRFXRM5DXAZMB7AUVOPKF7J4
 15-02, 1409 UTC Jaywalk 30 chr EAM DMOPTX MWPZCMJJD2JUVCWMGGOFWNYQ
 15-02, 1416 UTC Jaywalk 30 chr EAM DMLMUX 3ZNFSGKS3ZLD2A5RAHCU7UVV
 15-02, 1420 UTC Jaywalk 30 chr EAM DMWMFD CXCSZLAQFSSYU5VOI4I3YO4H
 15-02, 1717 UTC Jaywalk 30 chr EAM for Alga 87 LE5ZNV 2DWLGNIT7XVW4HNIAPKFQWSZ
 15-02, 1748 UTC Jaywalk 30 chr EAM DMZ65B GXHO7ITPOMHKYUHHFSZZZBGR
 15-02, 1758 UTC Jaywalk 30 chr EAM DMWLF6 PZT3DDGTEXKUGWFR7KO3Q7SD
 15-02, 1802 UTC Jaywalk 30 chr EAM DMRIHB APYHFJ7HKT5A2OLO7Q73FJU3
 15-02, 1847 UTC Jaywalk 30 chr EAM DMYMI6 L6WF3WXS3UXYFMM6MR2DHWUA
 15-02, 1850 UTC Jaywalk 30 chr EAM DNZ2VH 7FQUICKC2RX6GT4USMIGYX6U
 16-02, 1518 UTC Lady Luck 30 chr EAM DMCQNV LUT4C4MC2D5PYO3M2YNIJXHP
 16-02, 1518 UTC Lady Luck 30 chr EAM DMCQNV LUT4C4MC2D5PYO3M2YNIJXHP
 16-02, 1532 UTC Lady Luck 30 chr EAM DMD6X FHPX5JCXVRZSU6E5R2I6SG3G
 16-02, 1535 UTC Lady Luck 30 chr EAM DMWGIW NZPW5TDH2EETTWWYJFVITPNG
 16-02, 1539 UTC Lady Luck 30 chr EAM DMWGIW NZPW5TDH2EETTWWYJFVITPNG
 16-02, 1542 UTC Lady Luck 30 chr EAM DMD6X FHPX5JCXVRZSU6E5R2I6SG3G
 16-02, 1548 UTC Lady Luck 30 chr EAM DMNNVK HPJFK7B6BFJ3UYHGWLSHR24
 16-02, 1552 UTC Lady Luck 30 chr EAM DMR2B2 6ETSLY4APGXSO6URLQJFLUYV

16-02, 1608 UTC Lady Luck 30 chr EAM LE5PZK PPZC4U4WTKC776ROQJ5UDOE6
 16-02, 1633 UTC Radiator 30 chr EAM DM2EZA 4PE54DDXOQCBT6VBX3U2ZSG
 16-02, 1639 UTC Lady Luck 30 chr EAM LEP3VV 25KWF3EPBYGQCCDEW43NIVJF
 16-02, 1647 UTC Lady Luck 30 chr EAM DMHMQZ 62X3XUJLPUPXMYNSPGG7BYV3
 16-02, 1651 UTC Lady Luck 30 chr EAM DMWUHQ 7KKYHBGFM6YVYVQOSFNSN5EYS
 16-02, 1654 UTC Radiator 30 chr EAM DMHMQZ D then off
 16-02, 1725 UTC Lady Luck 30 chr EAM DMHUVL TLQQFRXRWBSIIPJ2C6J5S5MI
 17-02, 1717 UTC Preamp 41 chr EAM LEZXFN UK5HPEYRGS476WMS4CXMSLJGN5BVBBCR5736
 17-02, 1748 UTC Preamp 30 chr EAM DMXTIZ JXEZT7XZLEXHNOKIA03WPQ6J
 17-02, 1800 UTC Preamp 30 chr EAM DMSLOP 5VBHWGYQQL7QK5LRQSDHOVEF disregard message
 17-02, 1802 UTC Preamp 30 chr EAM DMSLOP 5VBHWGYQQL7QK5LRQSBHOVEF
 17-02, 1814 UTC Preamp 30 chr EAM DM7DDW 2CX7PKN3T6C7ENJYGBMIC2EM
 17-02, 1831 UTC Preamp 30 chr EAM DMA2K4 GH7VAGUU2QWSXYJRFH56AUED
 17-02, 1839 UTC Preamp 30 chr EAM DM2W2P 24MC3W5I6SCMPKJRCJW7C34K
 17-02, 1851 UTC Preamp 30 chr EAM DMUZ6S 6RQ5GAZZZ5AUYEZ4A6HLKOTB
 18-02, 1437 UTC Optimist 30 chr EAM DM3BAZ IDFWME74YBM7GV5KE5NLFX5D
 18-02, 1441 UTC Optimist 30 chr EAM DMKA26 VJ6U6UKUFWTW2D4EQWJ2EFAY
 18-02, 1437 UTC Optimist 30 chr EAM for Paymaster LEX5AV XQDFYQMMTKYSFHZZUF3FRWR
 18-02, 1640 UTC Optimist 151 chr EAM LE6KFF OR3BCOCVPAC7QLHMD3LHM5AL5B4LJYY7FL5BWANVXLGLL7BWAS
 XT5QLL7BTLJYY7FL7TBRANVXLGL7BBRASXT5QLRIBNLJYY7FL7TBGANVXLGL3TBRASXT5QLRIBNLJYY7
 FLSIUKANCL6W
 18-02, 1715 UTC Optimist 46 chr EAM LEWI25 S7LYAWKZETDVMH6VX2J6VX7J6VXQHNHWFHHN7MAE
 18-02, 1720 UTC Optimist 30 chr EAM DMVJ57 NJV5ZCO2G3ANC7VUEXJCZVCH
 19-02, 1335 UTC Firehose 30 chr EAM DMJMKL QRNOUVLNQN7O37PK6WA72RYF
 20-02, 0751 UTC EAM ZI6 then off
 20-02, 1703 UTC Hooverdam 30 chr EAM for Pool LEEXZ7 KKONXRCDCCR53SCMSWPB7SOY
 20-02, 1703 UTC Hooverdam 30 chr EAM for Pool LEVIZL NJGBB6TR6TALNFAMUR7CNP5M
 20-02, 1827 UTC Addressee 30 chr EAM ZIPLQD QAKP42QYNWD5ZHVE7DDJRV4
 20-02, 1831 UTC Addressee 30 chr EAM for Action Center LEIGRG YIFLQG5CBZLOACQDIXN2374R
 20-02, 1904 UTC Addressee 30 chr EAM for Pool LEOA5G 4PMVPRMOURWVLX34KSF62L24
 20-02, 1914 UTC Addressee 30 chr EAM ZILQAQ J7GNH7Q52LGOIRPFN367S72G
 20-02, 1924 UTC Addressee 30 chr EAM ZIJREQ NPTOWZ4QK3Q3NKRCO3MI2EZW
 20-02, 1933 UTC Addressee 30 chr EAM for Pool LE2POF SW55MGFK2ETR7SU4NVXPXPRP
 20-02, 1955 UTC Addressee 30 chr EAM for Pool LEW6A2 QTHX4T7LEAJLBTSZ7DYDJOS7
 20-02, 2221 UTC Addressee 84 chr EAM APODCTVYXVQMCOZ3EBXC67JXMUTRAMK4IRCX27AAZX34LTYOXUBU2IEF44INQV
 YJJW4W4XVVVPJZNFH6ZIX
 20-02, 2230 UTC Addressee 84 chr EAM APODCTVYXVQMCOZ3EBXC67JXMUTRAMK4IRCX27AAZX34LTYOXUBU2IEF44INQV
 YJJW4W4XVVVPJZNFH6ZIX
 22-02, 1503 UTC Tip Tank 30 chr EAM ZI5TPN WFSQSI6IB5LS5CVJXAJWA7JY
 22-02, 1519 UTC Tip Tank 30 chr EAM for Bemud LE3OLR CIDK7ZM2MVAA27OHMGFMB6OM
 22-02, 1525 UTC Tip Tank 30 chr EAM ZI6XOV AO5KBYPORKJ2CZ755QGD25NH
 22-02, 1809 UTC Red Log 30 chr EAM for Bemud LELDGX EACXG2KY3L3YGZK3BRKFQTCU
 22-02, 1817 UTC Red Log 30 chr EAM for Bemud LE7EYU G3OZWGMX3QEOHAJVUNJABP7W
 24-02, 1400 UTC Dependent 30 chr EAM ZIUZ4B XUM43NQDSR3UIKE75XIMCTXW
 24-02, 1402 UTC Dependent 47 chr EAM LER3W4 ELSCA55W3NMYSEDNDWAJMSVBJHLOBJMIRQZ2HLDE Dependent
 standing by for traffic. Over
 24-02, 1430 UTC Dependent 30 chr EAM ZIUZ4B XUM43NQDSR3UIKE75XIMCTXW
 24-02, 1432 UTC Dependent 47 chr EAM LER3W4 ELSCA55W3NMYSEDNDWAJMSVBJHLOBJMIRQZ2HLDE Dependent
 standing by for traffic. Over
 24-02, 1522 UTC Dependent 30 chr EAM ZIW5TH 3OJJDR5W5A4QUN5QYFNHCUNE
 24-02, 1529 UTC Dependent 30 chr EAM ZIOW43 EQY32XFZZL7PPR6L3NPYIZMU
 24-02, 1536 UTC Dependent 30 chr EAM ZI7N4G QPCTKKNBUK3OG3AEQVSTREYK
 24-02, 1633 UTC Dependent 30 chr EAM for Nail Set LECFWD S2FZ47ZJGIN5FVXT24FUPAU7
 26-02, 1726 UTC Outspoken 30 chr EAM ZIN3PX WI3YD6ABOP4NDFUXAWQRRYAQ
 26-02, 1807 UTC Sima Crow 30 chr EAM ZIDWFT F2FCYYPDPVBLSSOSWW2EQEVQP
 26-02, 1819 UTC Sima Crow 30 chr EAM ZISDFB XTMSAIIISRNK7XOHL5URVR2WS
 26-02, 1908 UTC Sima Crow 30 chr EAM ZIG4I7 3AD44VXLPMQTLZDXM4IVO7D
 27-02, 1718 UTC Blue Ship 30 chr EAM for Derrick-32 LES3VT 4YOBQLQRYVPB4RUHCDBNRIBNZ
 27-02, 2147 UTC Corned Beef 30 chr EAM ZIAIZ4 ARTBJYWI4H4UXMWVO2JXPUJP
 27-02, 2151 UTC Corned Beef 30 chr EAM ZIHUX6 PXXDQN2K753SB4U4F5ACY5CO

27-02, 2155 UTC Corned Beef 30 chr EAM ZIQMP7 T7J7S7QI775CZ62KQ4OPGIWV Disregard this transmission

27-02, 2157 UTC Corned Beef 30 chr EAM ZIQMP7 T7J7S7QI775CZ62KQ4DPGIWV

27-02, 2210 UTC Corned Beef 30 chr EAM ZIRA6B 5RMHZ3TLX35R6MAPTXO4DA2W

27-02, 2215 UTC Corned Beef 30 chr EAM ZIRFDD JRAAM3MLUMWZBOABQWEYRIZI

27-02, 2227 UTC Corned Beef 30 chr EAM ZI7C53 5CYFDM5UKT7ZZSVQ3P5NN5PG

27-02, 2233 UTC Corned Beef 30 chr EAM ZIOYDZ 33H773Q34OFT7NXTWR2T2O6F

27-02, 2303 UTC Corned Beef 30 chr EAM ZIA3IJ PDEXM46KAWN2B3HAD5DIJFSL

28-02, 0834 UTC Salt Lake 30 chr EAM ZI7B3J ALBZW6CPJUN3CIRWMB5UV4DM

28-02, 0847 UTC Salt Lake 30 chr EAM ZIDDSA ZGIEGYZN5VHWUHD165N4LOW

28-02, 0850 UTC Salt Lake 30 chr EAM ZIQEHR RFEJVRUAPMTDM6M6DQ3TTTNY

29-02, 0614 UTC Scaffold 30 chr EAM LEGH3M WO3DGICPLMPNNMSRN6UMHI3B

29-02, 0620 UTC Scaffold 30 chr EAM LEZ4BX SFF4MACUFDQ2CWERVSGULCJ

29-02, 0624 UTC Scaffold 30 chr EAM ZIZ7B6 JHGSOM3TL2A7OW5AOYOKNMLU

29-02, 0635 UTC Scaffold 30 chr EAM ZI6YX6 5NBYZHDCRYUFMH2F2UW3RIF3

29-02, 0639 UTC Scaffold 30 chr EAM ZIV7D3 ANYCGSGBXVCNLP2ZZL7FYBCT

29-02, 0656 UTC Scaffold 30 chr EAM ZI4TBI TGFKM4QH5NB53ZXVX2AH2AHM

29-02, 0700 UTC Disguise 30 chr EAM ZIA4CI C4MTIOFJRDZGJJPULF4XDENE

29-02, 0739 UTC Scaffold 30 chr EAM ZIXY6A ZIQ5OQZPMRRUUKJXFM4A3O32

29-02, 0743 UTC Scaffold 30 chr EAM ZIQBDF SBYJBG4KST4HDC5LOUF6IAD3

29-02, 1548 UTC Disguise This is Disguise, Disguise, transmitting blind. Break. For Mellon-68. Your diplomatic clearance is US002. Break. Time 49. Authentication MP. If you copy, please acknowledge. Disguise out.

29-02, 1554 UTC Disguise This is Disguise, Disguise, transmitting blind. Break. For Mellon-68. Your diplomatic clearance is US002. Break. Time 54. Authentication RQ. If you copy, please acknowledge. Disguise out.

29-02, 1617 UTC Disguise 30 chr EAM for Aura. LEPCGU ACPAH6LKIEIEG6YCHLZNOTPP

29-02, 1620 UTC Disguise 30 chr EAM for Aura. LEPCGU ACPAH6LKIEIEG6YCHLZNOTPP

29-02, 1633 UTC Disguise 30 chr EAM for Aura. LET3XI 47IKBFVZG4Y5X4JGV5QECHRM

29-02, 1647 UTC Disguise 30 chr EAM for Aura. LE4MED SDHLEWTROXQP35HY53KWQ6T6

29-02, 1748 UTC Disguise 30 chr EAM for Anna-72. LETALE WF43Y5M4KAIT7GO7NCY6UU7K

29-02, 1818 UTC Scaffold 30 chr EAM ZI27GY VU6CJTEQ6SNXWEEKLCDXRJOJ

29-02, 2102 UTC Scaffold 30 chr EAM ZID2RS NYRAJTK7CN3AEFBDG7B7FPJN

29-02, 2112 UTC Scaffold 30 chr EAM ZIOENP LZ757K575VAN4M3Y26D4ZF5Y

29-02, 2113 UTC Scaffold 30 chr EAM ZIFPON TQNHAQDFCL66MFUDCIQVRZHV

LOGS SECTION

The logs are sorted on Code, Date and Time.

Code	Freq.	Date	UTC	Day	Details	Mode	ctrb
---	4676	7-2	1233	Sun	VVV NA2 DE XVJ QSA ? K. VVV NA2 DE XVJ QSA 0 QSA 0 FF 27 27 K	CW	(JPL-Sib)
---	13245	11-2	0830	Thu	771 771 771 695 51 ... 0000	CW	(F5JBR)
ARM	6450	16-2	0622	Tue	Armenian Air Defense. Bearings	USB	(AB)
CZE	10311.5	15-2	1528	Mon	OLZ88: Czech diplo Praha channel marker	F1B 100/200	(PPA)
CZE	12210	12-2	0745	Fri	Czech Diplo. CN=ZPRAGA01/O=ZSMZV	Pactor-III	(AAI)
CZE	12216	15-2	0815	Mon	OLZ88: Czech diplo Praha	Pactor III 200/800	(PPA)
DPRK	12222	20-2	0729	Sat	North Korean diplo	DPRK-ARQ 600/600 LSB	(PPA)
DPRK	12222	27-2	0803	Sat	North Korean diplo	DPRK-ARQ 600/600 LSB	(PPA)
E06	4760	5-2	2130	Fri	472 613 20 14259 22676 32782 ... 73311 98089 12250 613 20 00000	USB	(AB/GHn)
E06	4836	4-2	2030	Thu	321 569 20 14259 22676 32782 32782 76723 ... 12256 18841 73311 98089 12250 569 20 00000	USB	(MPJ)
E06	8167	24-2	1730	Wed	801 269 53 23984 51833 37184 ... 58028 31760 89782 269 53 00000	USB	(AB)

E06	17470	5-2	0600	Fri	702		USB	(HFD)
E06	20085	18-2	0700	Thu	702		USB	(HFD)
E07	5111	10-2	0530	Wed	189 189 189 000		USB	(PPA)
E07	6924	1-2	2020	Mon	798 0		USB	(HFD)
E07	6924	15-2	2020	Mon	798 798 798 000		AM	(MPJ)
E07	7724	1-2	2000	Mon	798 0		USB	(HFD)
E07	7724	29-2	2000	Mon	798 1 ...		AM	(MPJ)
E07	9119	3-2	1820	Wed	215 215 215 000		USB	(HFD/AB)
E07	9119	14-2	1820	Sun	215 215 215 000		AM	(MPJ)
E07	9119	21-2	1820	Sun	215 215 215 000		AM	(AB)
E07	9119	24-2	1820	Wed	215 215 215 000		AM	(AB)
E07	10112	6-2	0700	Sat	111 111 111 0000		USB	(AB/HFD)
E07	10112	13-2	0700	Sat	111 111 111 0000		USB	(AB)
E07	10112	17-2	0700	Wed	111 111 111 0000		USB	(AB)
E07	10112	20-2	0700	Sat	111 111 111 0000		USB	(AB)
E07	10112	24-2	0700	Wed	111 111 111 0000		USB	(AB)
E07	10112	27-2	0700	Sat	111 111 111 0000		USB	(AB)
E07	10219	3-2	1800	Wed	215 215 215 000		USB	(HFD/AB)
E07	10219	14-2	1800	Sun	215 215 215 000		AM	(MPJ)
E07	10219	24-2	1800	Wed	215 215 215 000		AM	(AB/MPJ)
E07	10219	28-2	1800	Sun	215 215 215 000		AM	(MPJ)
E07	11112	6-2	0700	Sat	111 111 111 0000		USB	(AB)
E07	11112	13-2	0700	Sat	111 111 111 0000		USB	(AB/HFD)
E07	11112	17-2	0700	Wed	111 111 111 0000		USB	(AB)
E07	11112	20-2	0700	Sat	111 111 111 0000		USB	(AB)
E07	11112	24-2	0700	Wed	111 111 111 0000		USB	(AB)
E07	11112	27-2	0700	Sat	111 111 111 0000		USB	(AB)
E07a	5111	4-2	0530	Thu	189 1 16663 5808 77 26844		USB	(HFD)
E07a	5811	4-2	0550	Thu	189 1 16663		USB	(HFD)
E07a	6847	26-2	1650	Fri	318 1 10197 7285 71 05645 77079 11816 ... 42012 05435 93770 000 000		USB	(AB/MPJ)
E07a	6911	4-2	0610	Thu	189 189 189 1 16663 5808 77 26844 79958 85809 ... 62734 20334 66374 000 000		USB	(AB/HFD)
E07a	8147	5-2	1631	Fri	318 0		USB	(HFD)

E07a	8147	26-2	1630	Fri	318 1 10197 7285 71 05645 77079 11816 ... 42012 05435 93770 000 000	USB	(AB/MPJ)
E07a	9347	5-2	1610	Fri	318 0	USB	(HFD)
E07a	9347	26-2	1610	Fri	318 1 10197 7285 71 05645 77079 11816 ... 42012 05435 93770 000 000	USB	(AB/MPJ)
E07a	11053	6-2	0900	Sat	015 0	USB	(HFD)
E07a	11053	13-2	0900	Sat	015 1 61714 7921 55 47319 90249 04242 ... 58345 51491 53083 000 000	USB	(AB/BvR)
E07a	11053	27-2	0900	Sat	015 1 10197 7285 71 05645 77079 11816 ... 42012 05435 93770 000 000	USB	(AB)
E07a	12153	6-2	0920	Sat	015 015 015 000	USB	(AB/HFD)
E07a	12153	13-2	0920	Sat	015 1 61714 7921 55 47319 90249 04242 ... 58345 51491 53083 000 000	USB	(AB)
E07a	12153	27-2	0920	Sat	015 1 10197 7285 71 05645 77079 11816 ... 42012 05435 93770 000 000	USB	(AB)
E07a	13553	13-2	0940	Sat	015 1 61714 7921 55 47319 90249 04242 ... 58345 51491 53083 000 000	USB	(AB)
E07a	13553	27-2	0940	Sat	015 1 10197 7285 71 05645 77079 11816 ... 42012 05435 93770 000 000	USB	(AB)
E11	4505	2-2	1605	Tue	232/00	USB	(AB/MPJ)
E11	4505	9-2	1705	Tue	232/00	USB	(AB)
E11	4505	14-2	1605	Sun	232/00	USB	(MPJ)
E11	5082	11-2	1730	Thu	416/00	USB	(MPJ)
E11	5082	18-2	1730	Thu	416/00	USB	(MPJ)
E11	5409	4-2	1530	Thu	262/00	USB	(GHn/AB)
E11	5409	18-2	1530	Thu	262/00	USB	(GHn)
E11	6304	5-2	2000	Fri	576/00	USB	(MPJ)
E11	6304	12-2	2000	Fri	576/00	USB	(MPJ)
E11	6304	19-2	2000	Fri	576/00	USB	(MPJ)
E11	6940	1-2	0820	Mon	438/00	USB	(AB)
E11	6940	4-2	0820	Thu	438/00	USB	(AB)
E11	6940	8-2	0820	Mon	438/00	USB	(AB)
E11	6940	22-2	0820	Mon	438/00	USB	(AB)
E11	6940	25-2	0820	Thu	438/00	USB	(AB/F5JBR)
E11	6940	29-2	0820	Mon	438/00	USB	(AB)
E11	7840	2-2	0645	Tue	517/00	USB	(AB)
E11	7840	4-2	0645	Thu	517/00	USB	(AB)
E11	7840	16-2	0645	Tue	517/00	USB	(AB)
E11	7840	18-2	0645	Thu	517/00	USB	(AB)
E11	7840	25-2	0645	Thu	517/00	USB	(AB/F5JBR)

E11	7984	2-2	1205	Tue	469/00		USB	(AB/MPJ)
E11	7984	3-2	1205	Wed	469/00		USB	(AB)
E11	7984	9-2	1205	Tue	469/00		USB	(MPJ)
E11	7984	10-2	1205	Wed	469/00		USB	(AB)
E11	7984	24-2	1205	Wed	469/00		USB	(MPJ)
E11	8196	11-2	1450	Thu	441/00		USB	(MPJ)
E11	8196	11-2	1450	Thu	441/00		USB	(AB)
E11	8196	16-2	1450	Tue	441/00		USB	(AB)
E11	8196	18-2	1450	Thu	441/00		USB	(AB)
E11	9442	24-2	1705	Wed	392/00		USB	(MPJ)
E11	9443	10-2	1705	Wed	392/00		USB	(AB)
E11	9443	13-2	1704	Sat	392/00		USB	(MPJ)
E11	9443	20-2	1705	Sat	392/00		USB	(MPJ)
E11	9443	27-2	1540	Sat	392/00		USB	(GHn)
E11	9446	10-2	0900	Wed	534/00		USB	(AB)
E11	9446	15-2	0830	Mon	649/00		USB	(AB)
E11	9446	17-2	0900	Wed	534/00		USB	(AB)
E11	9446	22-2	0900	Mon	534/00		USB	(AB)
E11	9446	26-2	0830	Fri	649/00		USB	(AB)
E11	9446	29-2	0830	Mon	649/00		USB	(AB)
E11	9950	4-2	0930	Thu	270/00		USB	(AB)
E11	9950	11-2	0930	Thu	270/00		USB	(AB)
E11	9950	25-2	0930	Thu	273/00		USB	(AB)
E11	10213	15-2	0745	Mon	262/00		USB	(AB)
E11	10429	14-2	0805	Sun	311/00		USB	(AB/BvR)
E11	10429	17-2	0805	Wed	311/00		USB	(AB)
E11	10429	28-2	0805	Sun	311/00		USB	(AB)
E11	10448	14-2	1625	Sun	972/00		USB	(MPJ)
E11	10448	24-2	1625	Wed	972/00		USB	(MPJ)
E11	10448	28-2	1625	Sun	972/00		USB	(MPJ)
E11	10800	12-2	0710	Fri	633/00		USB	(AB)
E11	10800	16-2	0710	Tue	633/00		USB	(AB)

E11	10800	19-2	0710	Fri	633/00		USB	(AB)
E11	11107	14-2	2005	Sun	363/00		USB	(MPJ)
E11	12153	2-2	1045	Tue	576/00		USB	(AB)
E11	12153	9-2	1045	Tue	567/00		USB	(AB)
E11	12924	4-2	0710	Thu	491/00		USB	(AB)
E11	12924	6-2	0710	Sat	491/00		USB	(AB)
E11	12924	11-2	0710	Thu	491/00		USB	(AB)
E11	12924	13-2	0810	Sat	491/00		USB	(AB)
E11	12924	25-2	0810	Thu	491/00		USB	(AB)
E11	12924	27-2	0710	Sat	491/00		USB	(AB)
E11	13046	22-2	0600	Mon	181/00		USB	(AB)
E11	13046	29-2	0600	Mon	181/00		USB	(AB)
E11	14666	2-2	1345	Tue	911/00		USB	(MPJ)
E11	14666	6-2	1345	Sat	911/00		USB	(AB)
E11	14666	13-2	1345	Sat	911/00		USB	(AB)
E11	15632	8-2	1540	Mon	228/00		USB	(AB)
E11	15632	14-2	1540	Sun	228/00		USB	(MPJ)
E11	15632	21-2	1540	Sun	228/00		USB	(GHn)
E11	15632	22-2	1540	Mon	228/00		USB	(MPJ)
E11	15632	28-2	1540	Sun	228/00		USB	(MPJ)
E11	15632	29-2	1540	Mon	228/00		USB	(AB/GHn)
E11	16112	9-2	0745	Tue	335/00		USB	(AB)
E11	16112	11-2	0745	Thu	335/00		USB	(AB)
E11	16112	14-2	0730	Sun	352/00		USB	(AB/BvR)
E11	16112	16-2	0745	Tue	335/00		USB	(AB)
E11	16112	28-2	0730	Sun	352/00		USB	(AB)
E11	18030	2-2	1300	Tue	133/00		USB	(MPJ)
E11	20167	12-2	1225	Fri	521/00		USB	(AB)
E11	20167	15-2	1225	Mon	521/00		USB	(AB)
E11	20167	19-2	1225	Fri	521/00		USB	(AB)
E11	20167	26-2	1225	Fri	521/00		USB	(AB)
E11	20167	29-2	1225	Mon	521/00		USB	(AB)

E11a	4505	28-2	1605	Sun	233/37 Attention 17505 41547 42015 ... 99564 18967 22540 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	5082	25-2	1730	Thu	413/39 Attention 24786 05660 70172 ... 68706 49603 21929 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	6304	26-2	2000	Fri	576/35 50490 61661 84333 77706 46034 ... 28710 64521 85261 59267 63885	USB	(MPJ)
E11a	6940	15-2	0820	Mon	432/30 Attention 65981 70039 94983 ... 04633 72378 64721 Attention, rpt msg, out	USB	(AB)
E11a	6940	18-2	0820	Thu	432/30 Attention 65981 70039 94983 ... 04633 72378 64721 Attention, rpt msg, out	USB	(AB)
E11a	7840	9-2	0645	Tue	512/34 Attention 57878 98480 10730 ... 13141 22748 38084 Attention, rpt msg, out	USB	(AB)
E11a	7840	11-2	0645	Thu	512/34 Attention 57878 98480 10730 ... 13141 22748 38084 Attention, rpt msg, out	USB	(AB)
E11a	7984	17-2	1205	Wed	464/34 Attention 60978 51045 30277 ... 91772 17878 07065 Attention, rpt msg, out	USB	(AB)
E11a	8196	23-2	1450	Tue	449/33 Attention 03207 92960 35572 ... 09476 10678 17396 Attention, rpt msg, out	USB	(AB)
E11a	8196	25-2	1450	Thu	449/33 Attention 03207 92960 35572 ... 09476 10678 17396 Attention, rpt msg, out	USB	(MPJ)
E11a	9443	6-2	1705	Sat	394/39 Attention 35259 17199 13723 ... 15893 95534 80671 Attention, rpt msg, out	USB	(GHn)
E11a	9446	1-2	0830	Mon	641/36 Attention 24345 07185 99012 ... 17567 75566 44700 Attention, rpt msg, out	USB	(AB)
E11a	9446	1-2	0900	Mon	537/32 Attention 53131 47998 60937 ... 55660 83294 50595 Attention, rpt msg, out	USB	(AB)
E11a	9446	3-2	0900	Wed	537/32 Attention 53131 47998 60937 ... 55660 83294 50595 Attention, rpt msg, out	USB	(AB)
E11a	9446	5-2	0830	Fri	641/36 Attention 24345 07185 99012 ... 17567 75566 44700 Attention, rpt msg, out	USB	(AB)
E11a	10213	22-2	0745	Mon	267/37 Attention 72296 14246 39768 ... 05103 87194 88928 Attention, rpt msg, out	USB	(AB)
E11a	10429	3-2	0805	Wed	313/36 Attention ...	USB	(AB)
E11a	10429	7-2	0805	Sun	313/36 Attention 07803 32968 85801 ... 76113 61994 94866 Attention, rpt msg, out	USB	(AB)
E11a	10448	21-2	1625	Sun	976/40 Attention 47883 33777 74722 ... 88950 64828 71560 Attention, rpt msg, out	USB	(GHn)
E11a	10800	26-2	0710	Fri	637/36 Attention 59074 48802 51192 ... 94206 43152 03579 Attention, rpt msg, out	USB	(AB)
E11a	13046	8-2	0600	Mon	185/35 Attention 15028 77113 80977 ... 14334 14813 74227 Attention, rpt msg, out	USB	(AB)
E11a	16112	2-2	0745	Tue	335/36 Attention 35050 82983 64300 ... 92513 75448 36349 Attention, rpt msg, out	USB	(AB)
E11a	16112	4-2	0745	Thu	335/36 Attention 35050 82983 64300 ... 92513 75448 36349 Attention, rpt msg, out	USB	(AB)
E11a	16112	19-2	0730	Fri	358/36 Attention 60420 58210 90787 ... 10896 33432 86962 Attention, rpt msg, out	USB	(AB)
E11a	20167	1-2	1229	Mon	Message i.p.	USB	(AB)
E17z	9820	4-2	0810	Thu	674 205 8 61732 74537 57440 10597 23521 47660 92883 69901 205 8 00000	USB	(AB)
E17z	9820	11-2	0810	Thu	674 205 8 61732 74537 57440 10597 23521 47660 92883 69901 205 8 00000	USB	(AB)
E17z	9820	18-2	0810	Thu	674 289 5 38034 37823 38230 48235 38702 289 5 00000	USB	(AB)
E17z	9820	25-2	0810	Thu	674 289 5 38034 37823 38230 48235 38702 289 5 00000	USB	(AB)
E17z	11170	4-2	0800	Thu	674 205 8 61732 74537 57440 10597 23521 47660 92883 69901 205 8 00000	USB	(AB)
E17z	11170	11-2	0800	Thu	674 205 8 61732 74537 57440 10597 23521 47660 92883 69901 205 8 00000	USB	(AB)
E17z	11170	18-2	0800	Thu	674 289 5 38034 37823 38230 48235 38702 289 5 00000	USB	(AB)

E17z	11170	25-2	0800	Thu	674 289 5 38034 37823 38230 48235 38702 289 5 00000	USB	(AB)
E25	6140	21-2	0940	Sun	ID 350. 5176 4960 2021 7415 5074 4033 2318 8546 9537 7295 5553 4960 Rebeat (x3) 5176 4960 2021 7415 5... Restarts. Windows 7 sound during the transmission. No music intro used.	AM	(qsr177/Da nix)
E25	6140	23-2	1117	Tue	No callup, right into message 6211 Rebeat (3x) 6211 3001 2599 ??69 6365 ??? ?756 7792 2067 6211 EOM EOT. Then calls 880 889, which is later corrected as 889. No message.	AM	(qsr177)
E25	6140	24-2	0900	Wed	ID 111 Message (3x0 6311 0570 2060 0055 6935 0570 REBEAT (3X) 6311. aBRUPT END	AM	(qsr177)
E25	6140	24-2	0915	Wed	ID 950 Message (3x) 2011 7541 1911 0424 3728 8080 9329. Restarts 950 Message (3x) 2011 7541 1911 0424 3728 8080 9329 2554 1021 9366 1911 Rebeat (3x) then ends without the repeat. No intro tune used.	AM	(qsr177)
E25	9450	25-2	1210	Thu	Enta Omri then 830 20 (R) EOM 8 EOT. Started on 9450.35, then shifted to 9450 kHz	AM	(Danix)
E25	9550	28-2	0900	Sun	Test transmission. Off at 0910z	AM	(qsr177)
E25	9600	25-2	1210	Thu	Test at the same time as the normal transmission on 9450 kHz. The station must be using at least two transmitters.	AM	(qsr177)
E25	9600	27-2	1215	Sat	Transmitter test. At 1223z, transmitter starts failing and bad AM modulation starts. Transmitter off at 1230z.	AM	(qsr177)
E25a	9450	25-2	1210	Thu	Enta Omri then 830 20 (R) EOM 8 EOT. Started on 9450.35, then shifted to 9450 kHz	AM	(qsr177/Da nix)
G06	3696	8-2	1700	Mon	574 574 574 00000	USB	(AB/MPJ/P PA)
G06	4460	18-2	1300	Thu	329 329 329 00000	USB	(AB)
G06	4519	11-2	1830	Thu	271 613 15 14259 22676 32782 ... 12319 74238 36664 613 15 00000	USB	(GHn)
G06	4519	25-2	1829	Thu	271 613 15 14259 22676 32782 32782 76723 89409 12215 74326 64070 90235 38085 59543 12319 74238 36664 613 15 00000. Early start	USB	(AB/MPJ)
G06	4562	8-2	1800	Mon	574 574 574 00000	USB	(AB/MPJ)
G06	4792	12-2	1857	Fri	111 111 111 00000	USB	(PPA)
G06	4792	12-2	1930	Fri	436 701 20 37839 35787 98273 ... 60491 75924 04594 701 20 00000	USB	(MPJ/PPA/HFD)
G06	4792	26-2	1930	Fri	436 394 20 06132 75514 79681 94217 21443 ... 18809 85050 49870 63962 04884 394 20 00000	USB	(MPJ)
G06	5320	15-2	0800	Mon	329 329 329 00000	USB	(AB)
HM01	9065	12-2	0757	Fri	38771 51532 65206 78434 50873 84005	AM/RDFT	(AB)
HM01	9065	14-2	0757	Sun	51534 71031 78436 50875 84007 38662	AM/RDFT	(AB)
HM01	9065	15-2	0757	Mon	51535 71031 78437 50876 84008 38663	AM/RDFT	(AB)
HM01	9065	22-2	0757	Mon	75662 51321 68354 84773 55385 39892	AM/RDFT	(AB)
HM01	9065	28-2	0757	Sun	75668 51326 40531 84779 54423 39898	AM/RDFT	(AB)
HM01	9155	12-2	0957	Fri	38771 51532 65206 78434 50873 84005	AM/RDFT	(AB)
HM01	9155	15-2	0957	Mon	51535 71031 78437 50876 84008 38663	AM/RDFT	(AB)
HM01	9155	29-2	0957	Mon	75669 51327 40532 36261 54424 34411	AM/RDFT	(AB)
HM01	9240	1-2	0859	Mon	36552 86616 17852 54702 83214 86706 Note: repeat of 28-01 msgs	AM/RDFT	(AB)
HM01	9240	12-2	0857	Fri	38771 51532 65206 78434 50873 84005	AM/RDFT	(AB)
HM01	9240	22-2	0857	Mon	75662 51321 68354 84773 55385 39892	AM/RDFT	(AB)
HM01	9330	12-2	0657	Fri	38771 51532 65206 78434 50873 84005	AM/RDFT	(AB)

HM01	9330	14-2	0657	Sun	51534 71031 78436 50875 84007 38662	AM/RDFT	(AB)
HM01	9330	15-2	0657	Mon	51535 71031 78437 50876 84008 38663	AM/RDFT	(AB)
HM01	9330	22-2	0657	Mon	75662 51321 68354 84773 55385 39892	AM/RDFT	(AB)
HM01	9330	28-2	0657	Sun	75668 51326 40531 84779 54423 39898	AM/RDFT	(AB)
HM01	10345	14-2	0627	Sun	51534 71031 78436 50875 84007 38662	AM/RDFT	(AB)
HM01	10715	1-2	2200	Mon	36552 86616 17852 54702 83214 86706	AM/RDFT	(Dan)
HM01	10715	3-2	2200	Wed	36554 86618 17854 54704 83216 38021	AM/RDFT	(Dan)
HM01	10715	8-2	2200	Mon	36559 65203 78431 50871 84002 38026	AM/RDFT	(Dan)
HM01	10715	10-2	2200	Wed	51531 65205 78433 50872 84004 38027	AM/RDFT	(Dan)
HM01	10715	12-2	2200	Fri	51533 65207 78435 50874 84006 38661	AM/RDFT	(Dan)
HM01	10715	14-2	2200	Sun	51535 71031 78437 50876 84008 38663	AM/RDFT	(Dan)
HM01	10715	15-2	2200	Mon	51536 71032 78438 50877 84009 38664	AM/RDFT	(Dan)
HM01	10715	17-2	2200	Wed	51538 71034 68351 50879 55381 38666	AM/RDFT	(Dan)
HM01	10715	19-2	2200	Fri	75661 71036 68352 84771 55383 39890	AM/RDFT	(Dan)
HM01	10715	28-2	2200	Sun	34411 75669 51327 40532 36261 54424	AM/RDFT	(Dan)
HM01	10715	29-2	2200	Mon	34411 15721 51328 40533 36261 54425	AM/RDFT	(Dan)
HM01	11435	2-2	1605	Tue	36553 86617 17853 54702 83215 86707	AM/RDFT	(DSch)
HM01	11435	4-2	1557	Thu	36554 86618 17854 54704 83216 80 then off 1553z, thenw 36555 86619 17855 54705 83217 38021	AM/RDFT	(DSch)
HM01	11435	4-2	1600	Thu	Radio Havana briefly followed by 36556 65201 17856 54706 83218 38022	AM/RDFT	(DSch)
HM01	11435	6-2	1559	Sat	36557 65201 17857 54707 84001 38023	AM/RDFT	(DSch)
HM01	11435	10-2	1557	Wed	51531 65205 78433 50872 84004 38027	AM/RDFT	(DSch)
HM01	11435	11-2	1558	Thu	Sent few of yesterday groups then 51532 65206 78434 50873 84005 38661	AM/RDFT	(DSch)
HM01	11435	13-2	1618	Sat	51534 71031 78436 50875 84007 38662	AM/RDFT	(DSch)
HM01	11435	14-2	1557	Sun	51535 71031 78437 50876 84008 38663	AM/RDFT	(DSch)
HM01	11435	15-2	1629	Mon	51536 71032 78438 50877 84009 38664	AM/RDFT	(DSch)
HM01	11435	17-2	1611	Wed	51538 71034 28351 50879 55381 38666	AM/RDFT	(DSch)
HM01	11435	20-2	1611	Sat	In tfc	AM/RDFT	(DSch)
HM01	11435	23-2	1600	Tue	Radio Havana on and off several times. No HM01 transmission	AM	(DSch)
HM01	11435	26-2	1545	Fri	75667 51325 40531 84778 54422 39897	AM/RDFT	(DSch)
HM01	11435	27-2	1604	Sat	75668 51326 40531 84779 54423 39898	AM/RDFT	(DSch)
HM01	11435	28-2	1554	Sun	Sends yesterday callup groups then stops at 1554z. Then into new groups 75669 51327 40532 36261 54424 34411	AM/RDFT	(DSch)
HM01	11435	29-2	1628	Mon	15721 51328 50533 36261 54425 34411	AM/RDFT	(DSch)

HM01	11530	25-2	1715	Thu	75666 51324 68358 84777 54421 39896	AM/RDFT	(DSch)
HM01	11635	8-2	1759	Mon	36559 65203 78431 50871 84002 38025	AM/RDFT	(DSch)
HM01	11635	12-2	2104	Fri	51532 65207 78435 50874 84006 38661	AM/RDFT	(DSch)
HM01	11635	16-2	1810	Tue	51537 71033 78439 50878 55381 38665	AM/RDFT	(DSch)
HM01	11635	22-2	2116	Mon	75663 51321 68355 84774 55386 39893	AM/RDFT	(DSch)
HM01	11635	23-2	1758	Tue	75664 51322 68356 84775 55387 39894	AM/RDFT	(DSch)
HM01	11635	24-2	1758	Wed	75665 51323 68357 84776 54421 39895	AM/RDFT	(DSch)
HM01	11635	26-2	2058	Fri	75667 51325 40531 84778 54422 39897	AM/RDFT	(DSch)
HM01	12180	11-2	1027	Thu	38027 51531 65205 78433 50872 84004	AM/RDFT	(AB)
HM01	13435	11-2	0745	Thu	38027 51531 65205 78433 50872 84004	AM/RDFT	(F5JBR)
HM01	16180	6-2	2059	Sat	36557 65201 17857 54707 84001 38023	AM/RDFT	(DSch)
HM01	16180	11-2	2059	Thu	51532 65206 78434 50873 84005 38661	AM/RDFT	(DSch)
HM01	16180	16-2	2303	Tue	51537 71033 78439 50878 55381 38665	AM/RDFT	(DSch)
HM01	16180	19-2	2100	Fri	Callup groups	AM/RDFT	(DSch)
HM01	16180	23-2	2100	Tue	75664 51322 68356 84775 55387 39894	AM/RDFT	(Dan)
HM01	17480	2-2	2200	Tue	36553 86617 17853 54703 83215 86707	AM/RDFT	(Dan)
HM01	17480	4-2	2200	Thu	36555 86619 17855 54705 83217 38021	AM/RDFT	(Dan)
HM01	17480	9-2	2200	Tue	51531 65204 78432 50871 84003 38026	AM/RDFT	(Dan)
HM01	17480	9-2	2215	Tue	51531 65204 78432 50871 84003 38026	AM/RDFT	(DSch)
HM01	17480	11-2	2200	Thu	51532 65206 78434 50873 84005 38661	AM/RDFT	(Dan)
HM01	17480	13-2	2200	Sat	51534 71031 78436 50875 84007 38662	AM/RDFT	(Dan)
HM01	17480	16-2	2200	Tue	51537 71033 78439 50878 55381 38665	AM/RDFT	(Dan)
HM01	17480	18-2	2200	Thu	51539 71035 68351 84771 55382 38667	AM/RDFT	(Dan)
M01	4490	4-2	2000	Thu	197 150 30 = = 86619 56977 08935 99954 26733 ... 72232 11459 54162 10076 17873 = = 150 30 000	CW	(MPJ)
M01	4490	16-2	1800	Tue	197 697 30 = = 09694 19167 29273 67806 97278 ... 06385 96841 37583 05702 36121 = = 697 30 000 //5320 kHz	CW	(MPJ)
M01	4490	18-2	2000	Thu	197 341 30 = = 35406 46_14 82170 47872 89329 ... 41084 47951 29573 71772 59313 = = 341 30 000	CW	(MPJ)
M01	4490	25-2	2000	Thu	197 423 30 = 52771 16437 51648 ... 48508 49994 53320 423 30 = 000	CW	(MPJ)
M01	5320	4-2	1800	Thu	197 .15 30 = = 0.... 905.. 8280 unreadable	CW	(MPJ)
M01	5320	16-2	1800	Tue	197 697 30 = = 09694 19167 29273 67806 97278 ... 06385 96841 37583 05702 36121 = = 697 30 000 //4490 kHz	CW	(MPJ)
M01	5320	18-2	1800	Thu	197 579 30 = = _4751 49218 75579 73582 69423 ... 77784 76640 54988 16240 07744 = = 579 30 000	CW	(MPJ)
M01	5320	23-2	1800	Tue	197 247 30 = = 88042 75164 57993 01495 29815 ... 34535 58016 81065 24629 280428045 = = 2472473030 000	CW	(MPJ/PPA)
M01	5320	25-2	1800	Thu	197 291 30 = 01504 40878 00749 ... 31446 37891 82062 291 30 000	CW	(MPJ)

M01a	5414	10-2	0749	Wed	156 10 34615 78641 57182 ... 34675 61589 01725 = 156 10 000 111 111 000	CW	(F5JBR)
M01a	6868	12-2	0719	Fri	54564 01320 35435 55484 71199 46545 56401 78973 32156 74853 54697 31001 42309 21034 = 731 30 = 111 111 000	CW	(F5JBR)
M01b	2425	29-2	2015	Mon	375 435 63 == 85705 33889 02727 26915 54083 ... 35387 04144 87569 64694 60867 == 453 63 000 //3205 kHz	MCW	(MPJ)
M01b	2435	1-2	1910	Mon	853 ...	CW	(PPA)
M01b	2435	29-2	1910	Mon	853 435 63 == 85705 33889 02727 26915 54083 ... 35387 04144 87569 64694 60867 == 453 63 000 //3520 kHz	MCW	(MPJ)
M01b	2470	4-2	1932	Thu	910 505 38 == 64757 21165 78189 72688 73296 ... 65907 9..... (Stops before end, both freqs) //3535	MCW	(MPJ)
M01b	2470	18-2	1932	Thu	910 164 35 == 30575 49228 13793 59487 59487 ... 17136 49255 49883 18971 19865 == 164 35 000 //3545 kHz	MCW	(MPJ)
M01b	2470	25-2	1932	Thu	910 435 63 == 85705 33889 02727 26915 54083 ... 35387 04144 87569 64694 60867 == 435 63 000 //3545 kHz	MCW	(MPJ)
M01b	2471	11-2	1932	Thu	910 164 35 == 30575 49228 13793 59417 77686 ... ____19865 == 164 35 000 //3545 kHz	CW	(MPJ)
M01b	2485	4-2	2042	Thu	382 505 38 == 64757 21165 78189 72688 73296 ... 07884 05722 88742 41803 20902 == 505 38 000 //3160 kHz	MCW	(MPJ)
M01b	2485	11-2	2042	Thu	482? 164 35 = = (Start missed) Ends ... 17136 49255 49873 18971 19865 = = 164 35 000	MCW	(MPJ)
M01b	2525	15-2	2015	Mon	375 164 35 == 30575 49228 13793 59487 77686 ... 17136 49255 49883 18971 19865 == 164 35 000 //3205 kHz	MCW	(MPJ)
M01b	2655	5-2	2002	Fri	866 505 38 == 64757 21165 78189 72688 73296 0..... 05722 88742 04183 20902 = = 505 38 000 //3195 kHz	MCW	(MPJ)
M01b	2655	26-2	2002	Fri	866 435 63 == 85705 33889 02727 26915 54083 ... 35387 04144 87569 64694 60867 == 435 63 000 //3195 kHz	MCW	(MPJ)
M01b	3160	4-2	2042	Thu	382 505 38 == 64757 21165 78189 72688 73296 ... 07884 05722 88742 41803 20902 == 505 38 000 //2485 kHz	MCW	(MPJ)
M01b	3195	5-2	2002	Fri	866 505 38 == 64757 21165 78189 72688 73296 0..... 05722 88742 04183 20902 = = 505 38 000 //2655 kHz	MCW	(MPJ)
M01b	3195	26-2	2002	Fri	866 435 63 == 85705 33889 02727 26915 54083 ... 35387 04144 87569 64694 60867 == 435 63 000 //2655 kHz	MCW	(MPJ)
M01b	3205	15-2	2015	Mon	375 164 35 == 30575 49228 13793 59487 77686 ... 17136 49255 49883 18971 19865 == 164 35 000 //2425 kHz	MCW	(MPJ)
M01b	3205	29-2	2015	Mon	375 435 63 == 85705 33889 02727 26915 54083 ... 35387 04144 87569 64694 60867 == 453 63 000 //2425 kHz	MCW	(MPJ)
M01b	3520	22-2	1910	Mon	853 _5_ _ = = 85705 43889 02727 26915 54083 ... (Faded out)	MCW	(MPJ)
M01b	3520	29-2	1910	Mon	853 435 63 == 85705 33889 02727 26915 54083 ... 35387 04144 87569 64694 60867 == 453 63 000 //2435 kHz	MCW	(MPJ)
M01b	3545	4-2	1932	Thu	910 505 38 == 64757 21165 78189 72688 73296 ... 65907 9..... (Stops before end, both freqs) //2470 kHz	MCW	(MPJ)
M01b	3545	11-2	1932	Thu	910 164 35 == 30575 49228 13793 59417 77686 ... ____19865 = = 164 35 000 //2471 kHz	CW	(MPJ)
M01b	3545	18-2	1932	Thu	910 164 35 == 30575 49228 13793 59487 59487 ... 17136 49255 49883 18971 19865 == 164 35 000 //2470 kHz	MCW	(MPJ)
M01b	3545	25-2	1932	Thu	910 435 63 == 85705 33889 02727 26915 54083 ... 35387 04144 87569 64694 60867 == 435 63 000 //2470 kHz	MCW	(MPJ)
M01b	6261	26-2	0536	Fri	948 41 = 86727 67274 88681 70921 15140 84598 ... 97402 01477 22929 70690 71216 = 948 41 rpt msg = 948 41 000	MCW	(F5JBR)
M01b	6261	26-2	0537	Fri	121 41 = 40061 15774 82263 ... 23403 53456 90500 rpt msg = 121 41 000	MCW	(F5JBR)
M08a	7554	19-2	1957	Fri	In tfc	CW	(DSch)
M08a	8009	8-2	2259	Mon	In tfc but messed up	CW	(DSch)
M08a	8009	9-2	2259	Tue	i.p.	CW	(DSch)
M12	4029	9-2	2240	Tue	460 1	CW	(HFD)
M12	4617	8-2	0530	Mon	638 0	CW	(HFD)

M12	4629	9-2	2220	Tue	460 1	CW	(HFD)
M12	5317	8-2	0550	Mon	638 0	CW	(HFD)
M12	5317	29-2	0550	Mon	368 368 368 000	CW	(AB)
M12	5429	9-2	2200	Tue	460 1	CW	(HFD)
M12	5788	1-2	1840	Mon	463 1	CW	(HFD)
M12	5788	3-2	1940	Wed	463 1 5367 136 55252 22360 17178 15754 11125 ... 04367 01180 82192 61306 08909 000 000	CW	(MPJ)
M12	5788	8-2	1840	Mon	463 1 2630 140 68070 77613 77909 81060 73275 ... 34443 61020 34378 30982 74129 000 000	CW	(MPJ)
M12	5788	15-2	1840	Mon	463 1 2254 141 05218 61400 21030 33214 57934 ... 14293 00410 18665 35718 34950 000 000	CW	(MPJ)
M12	5788	24-2	1940	Wed	463 1 2708 131 03006 64531 66711 14457 85638 ... 61579 08745 93430 17096 07734 000 000	CW	(MPJ)
M12	5884	4-2	0730	Thu	888 888 888 000	CW	(AB)
M12	5884	11-2	0730	Thu	888 888 888 000	CW	(AB)
M12	5884	18-2	0730	Thu	888 888 888 000	CW	(AB/HFD)
M12	6802	1-2	1820	Mon	463 1	CW	(HFD)
M12	6802	3-2	1920	Wed	463 1 5367 136 55252 22360 17178 15754 11125 ... 04367 01180 82192 61306 08909 000 000	CW	(MPJ)
M12	6802	8-2	1820	Mon	463 1 2630 140 68070 77613 77909 81060 73275 ... 34443 61020 34378 30982 74129 000 000	CW	(MPJ)
M12	6802	15-2	1820	Mon	463 1 2254 141 05218 61400 21030 33214 57934 ... 14293 00410 18665 35718 34950 000 000	CW	(MPJ)
M12	6802	24-2	1920	Wed	463 1 2708 131 03006 64531 66711 14457 85638 ... 61579 08745 93430 17096 07734 000 000	CW	(MPJ)
M12	6884	4-2	0750	Thu	888 888 888 000	CW	(AB)
M12	6884	18-2	0750	Thu	888 0	CW	(HFD)
M12	6904	1-2	1940	Mon	257 1	CW	(HFD)
M12	6904	3-2	1840	Wed	257 1 4311 148 57249 18981 50498 17533 62166 ... 63000 45577 74671 46378 95054 000 000	CW	(MPJ)
M12	6904	8-2	1940	Mon	257 1 5185 82 82758 35844 96620 22673 61506 ... 79158 43836 41425 93745 01544 000 000	CW	(MPJ)
M12	6904	15-2	1940	Mon	257 1 1969 81 91135 45529 09230 13140 50100 ... 23604 62970 16283 35777 66377 000 000	CW	(MPJ)
M12	6904	22-2	1940	Mon	257 1 6914 84 82726 65704 29869 65326 41101 ... 76328 81784 31719 60074 84886 000 000	CW	(MPJ)
M12	6904	24-2	1840	Wed	257 1 (R) 5353 145 87972 58106 67295 ... 26510 70564 54761 000 000	CW	(AB/MPJ)
M12	6904	29-2	1940	Mon	257 1 (R) 2657 82 01704 58092 34826 ... 83056 58839 74599 000 000	CW	(MPJ)
M12	7562	11-2	1350	Thu	104 1 (R) 9944 141 99687 56191 73281 ... 95885 25917 11137 000 000	CW	(AB)
M12	7637	6-2	0600	Sat	612 0	CW	(HFD)
M12	7637	13-2	0600	Sat	612 1 4076 161 67759 44741 97529 ... 33238 97869 15040 000 000	CW	(AB)
M12	7931	1-2	1920	Mon	257 1	CW	(HFD)
M12	7931	8-2	1920	Mon	257 1 5185 82 82758 35844 96620 22673 61506 ... 79158 43836 41425 93745 01544 000 000	CW	(MPJ)
M12	7931	15-2	1920	Mon	257 1 1969 81 91135 45529 09230 13140 50100 ... 23604 62970 16283 35777 66377 000 000	CW	(MPJ)

M12	7931	22-2	1920	Mon	257 1 6914 84 82726 65704 29869 65326 41101 ... 76328 81784 31719 60074 84886 000 000	CW	(MPJ)
M12	7931	24-2	1820	Wed	257 1 (R) 5353 145 87972 58106 67295 ... 26510 70564 54761 000 000	CW	(AB/MPJ)
M12	7931	29-2	1920	Mon	257 1 (R) 2657 82 01704 58092 34826 ... 83056 58839 74599 000 000	CW	(MPJ)
M12	8047	1-2	1800	Mon	463 1	CW	(HFD)
M12	8047	3-2	1900	Wed	463 1 5367 136 55252 22360 17178 15754 11125 ... 04367 01180 82192 61306 08909 000 000	CW	(MPJ)
M12	8047	8-2	1800	Mon	463 1 2630 140 68070 77613 77909 81060 73275 ... 34443 61020 34378 30982 74129 000 000	CW	(MPJ)
M12	8047	15-2	1800	Mon	463 1 2254 141 05218 61400 21030 33214 57934 ... 14293 00410 18665 35718 34950 000 000	CW	(MPJ)
M12	8047	22-2	1800	Mon	463 1 7170 146 44380 09213 73956 86085 25329 ... 84620 33490 74075 78338 57444 000 000	CW	(MPJ/PPA)
M12	8047	24-2	1900	Wed	463 1 2708 131 03006 64531 66711 14457 85638 ... 61579 08745 93430 17096 07734 000 000	CW	(MPJ)
M12	8062	4-2	1330	Thu	104 0	CW	(HFD)
M12	8062	6-2	1330	Sat	104 104 104 000	CW	(AB)
M12	8062	11-2	1330	Thu	104 1 (R) 9944 141 99687 56191 73281 ... 95885 25917 11137 000 000	CW	(AB)
M12	8062	18-2	1330	Thu	104 104 104 000	CW	(AB)
M12	8062	25-2	1330	Thu	104 104 104 000	CW	(MPJ)
M12	8115	18-2	1840	Thu	124 1 6019 148 14908 56713 36697 34304 87784 ... 94733 78283 40105 71166 51539 000 000	CW	(MPJ)
M12	8116	2-2	2010	Tue	124 1 8173 109 01135 95915 95323 73198 40764 ... 29816 64115 76097 72162 .8654 000 000	CW	(MPJ)
M12	8116	4-2	1840	Thu	124 1 1450 150 42272 80458 12739 92936 97855 ... 05221 62242 82510 54561 73723 000 000	CW	(MPJ)
M12	8116	9-2	2010	Tue	124 1 6839 95 08273 25070 77817 39991 77725 ... 8.743 66544 09985 16415 64960 000 000	CW	(MPJ)
M12	8116	11-2	1840	Thu	124 1 1198 143 06954 59153 51754 75390 00735 ... 18857 56925 71470 26160 54210 000 000	CW	(MPJ)
M12	8116	16-2	2010	Tue	124 1 4162 102 33992 35449 73962 82206 03455 ... 67258 57561 28363 70395 91264 000 000	CW	(MPJ)
M12	8116	23-2	2010	Tue	124 1 8724 97 15766 51561 63274 30448 20711 ... 10545 90691 00459 09655 26317 000 000	CW	(MPJ)
M12	8116	25-2	1840	Thu	124 124 124 1 (R) 3661 140 3661 140 26032 80439 90030 ... 08751 24204 14750 000 000	CW	(AB/MPJ)
M12	9137	6-2	0620	Sat	612 0	CW	(HFD)
M12	9137	13-2	0620	Sat	612 1 4076 161 67759 44741 97529 ... 33238 97869 15040 000 000	CW	(AB)
M12	9137	27-2	0620	Sat	612 612 612 000	CW	(AB)
M12	9162	4-2	1310	Thu	104 0	CW	(HFD)
M12	9162	11-2	1310	Thu	104 1 (R) 9944 141 99687 56191 73281 ... 95885 25917 11137 000 000	CW	(AB)
M12	9162	25-2	1310	Thu	104 104 104 000	CW	(AB)
M12	9167	29-2	1900	Mon	257 1 (R) 2657 82 01704 58092 34826 ... 83056 58839 74599 000 000	CW	(AB/MPJ)
M12	9176	1-2	1900	Mon	257 1	CW	(HFD)
M12	9176	8-2	1900	Mon	257 1 5185 82 82758 35844 96620 22673 61506 ... 79158 43836 41425 93745 01544 000 000	CW	(MPJ)
M12	9176	15-2	1900	Mon	257 1 1969 81 91135 45529 09230 13140 50100 ... 23604 62970 16283 35777 66377 000 000	CW	(MPJ)

M12	9176	22-2	1900	Mon	257 1 6914 84 82726 65704 29869 65326 41101 ... 76328 81784 31719 60074 84886 000 000	CW	(MPJ)
M12	9176	24-2	1800	Wed	257 1 (R) 5353 145 87972 58106 67295 ... 26510 70564 54761 000 000	CW	(AB/MPJ)
M12	9264	2-2	1950	Tue	124 1 8173 109 01135 95915 95323 73198 40764 ... 29816 64115 76097 72162 .8654 000 000	CW	(MPJ)
M12	9264	4-2	1820	Thu	124 1 1450 150 42272 80458 12739 92936 97855 ... 05221 62242 82510 54561 73723 000 000	CW	(MPJ)
M12	9264	11-2	1820	Thu	124 1 1198 143 06954 59153 51754 75390 00735 ... 18857 56925 71470 26160 54210 000 000	CW	(MPJ)
M12	9264	16-2	1950	Tue	124 1 4162 102 33992 35449 73962 82206 03455 ... 67258 57561 28363 70395 91264 000 000	CW	(MPJ)
M12	9264	18-2	1820	Thu	124 1 6019 148 14908 56713 36697 34304 87784 ... 94733 78283 40105 71166 51539 000 000	CW	(MPJ)
M12	9264	23-2	1950	Tue	124 1 8724 97 15766 51561 63274 30448 20711 ... 10545 90691 00459 09655 26317 000 000	CW	(MPJ)
M12	9264	25-2	1820	Thu	124 124 124 1 (R) 3661 140 3661 140 26032 80439 90030 ... 08751 24204 14750 000 000	CW	(AB/F5JBR)
M12	10237	13-2	0640	Sat	612 1 4076 161 67759 44741 97529 ... 33238 97869 15040 000 000	CW	(AB)
M12	10343	2-2	1930	Tue	124 1 8173 109 01135 95915 95323 73198 40764 ... 29816 64115 76097 72162 .8654 000 000	CW	(MPJ)
M12	10343	4-2	1800	Thu	124 1 1450 150 42272 80458 12739 92936 97855 ... 05221 62242 82510 54561 73723 000 000	CW	(MPJ)
M12	10343	11-2	1800	Thu	124 1 1198 143 06954 59153 51754 75390 00735 ... 18857 56925 71470 26160 54210 000 000	CW	(MPJ)
M12	10343	16-2	1930	Tue	124 1 4162 102 33992 35449 73962 82206 03455 ... 67258 57561 28363 70395 91264 000 000	CW	(MPJ)
M12	10343	18-2	1800	Thu	124 1 6019 148 14908 56713 36697 34304 87784 ... 94733 78283 40105 71166 51539 000 000	CW	(MPJ)
M12	10343	23-2	1930	Tue	124 1 8724 97 15766 51561 63274 30448 20711 ... 10545 90691 00459 09655 26317 000 000	CW	(MPJ)
M12	10343	25-2	1800	Thu	124 124 124 1 (R) 3661 140 3661 140 26032 80439 90030 ... 08751 24204 14750 000 000	CW	(AB/MPJ)
M12	10711	4-2	1740	Thu	546 1	CW	(HFD)
M12	10711	25-2	1740	Thu	546 546 546 1 (R) 1408 87 1408 87 99156 54402 70684 ... 39677 57065 85509 000 000	CW	(AB/MPJ)
M12	11491	4-2	1540	Thu	725 1 (R) 4401 133 02132 84903 89157 ... 90106 47108 15942 000 000	CW	(AB)
M12	11491	11-2	1540	Thu	725 1(R) 4887 114 11171 81099 42936 ... 80807 94650 83748 000 000	CW	(AB/MPJ)
M12	11491	25-2	1540	Thu	725 1 (R) 6073 133 13967 13480 88381 ... 44970 75179 25783 000 000	CW	(AB/MPJ)
M12	11556	25-2	1720	Thu	546 546 546 1 (R) 1408 87 1408 87 99156 54402 70684 ... 39677 57065 85509 000 000	CW	(MPJ)
M12	11566	4-2	1720	Thu	546 1	CW	(HFD)
M12	12162	4-2	1700	Thu	546 1	CW	(HFD)
M12	12189	4-2	1520	Thu	725 1 (R) 4401 133 02132 84903 89157 ... 90106 47108 15942 000 000	CW	(AB)
M12	12189	11-2	1520	Thu	725 1(R) 4887 114 11171 81099 42936 ... 80807 94650 83748 000 000	CW	(AB/MPJ)
M12	12189	25-2	1520	Thu	725 1 (R) 6073 133 13967 13480 88381 ... 44970 75179 25783 000 000	CW	(AB/MPJ)
M12	12205	8-2	1100	Mon	973 1 (R) 4644 113 60913 53299 41669 ... 36735 17243 79716 000 000	CW	(AB/MPJ)
M12	12205	15-2	1100	Mon	973 1 (R) 9552 122 9552 122 84089 61287 10243 ...	CW	(AB)
M12	13386	4-2	1500	Thu	725 1 (R) 4401 133 02132 84903 89157 ... 90106 47108 15942 000 000	CW	(AB)
M12	13386	11-2	1500	Thu	725 1(R) 4887 114 11171 81099 42936 ... 80807 94650 83748 000 000	CW	(AB/MPJ)

M12	13386	25-2	1500	Thu	725 1 (R) 6073 133 13967 13480 88381 ... 44970 75179 25783 000 000	CW	(AB/MPJ)
M12	13559	8-2	1120	Mon	973 1 (R) 4644 113 60913 53299 41669 ... 36735 17243 79716 000 000	CW	(AB/MPJ)
M12	13559	15-2	1120	Mon	973 1 (R) 9552 122 9552 122 84089 61287 10243 ...	CW	(AB)
M12	13569	4-2	1010	Thu	582 582 582 000	CW	(AB/HFD)
M12	13569	11-2	1010	Thu	582 1 (R) 495 109 19550 67230 54901 ... 62760 13699 11171 000 000	CW	(AB)
M12	13569	14-2	1010	Sun	582 1 (R) 495 109 19550 67230 54901 ... 62760 13699 11171 000 000	CW	(AB)
M12	14728	8-2	1140	Mon	973 1 (R) 4644 113 60913 53299 41669 ... 36735 17243 79716 000 000	CW	(AB/MPJ)
M12	14728	15-2	1140	Mon	973 1 (R) 9552 122 9552 122 84089 61287 10243 ...	CW	(AB)
M12	14728	22-2	1140	Mon	973 1 1431 136 02548 82724 74634 96899 24456 ... 61728 85209 53656 91436 93931 000 000	CW	(MPJ)
M12	14728	29-2	1140	Mon	973 1 (R) 5780 135 21061 58208 25994 ... 70344 18659 76405 000 000	CW	(AB)
M12	14814	12-2	1520	Fri	384 384 384 000	CW	(AB/MPJ)
M12	14814	26-2	1520	Fri	384 384 384 000	CW	(MPJ)
M12	14869	4-2	1030	Thu	582 0	CW	(HFD)
M12	14869	11-2	1030	Thu	582 1 (R) 495 109 19550 67230 54901 ... 62760 13699 11171 000 000	CW	(AB)
M12	14869	14-2	1030	Sun	582 1 (R) 495 109 19550 67230 54901 ... 62760 13699 11171 000 000	CW	(AB)
M12	16269	11-2	1040	Thu	582 1 (R) 495 109 19550 67230 54901 ... 62760 13699 11171 000 000	CW	(AB)
M12	16269	14-2	1040	Sun	582 1 (R) 495 109 19550 67230 54901 ... 62760 13699 11171 000 000	CW	(AB)
M12	16314	12-2	1500	Fri	384 384 384 000	CW	(MPJ)
M12	16314	26-2	1500	Fri	384 384 384 000	CW	(MPJ)
M12	18064	17-2	0710	Wed	049 049 049 000	CW	(AB)
M12	18064	24-2	0710	Wed	049 049 049 000	CW	(AB)
M12	20167	8-2	1225	Mon	521/00	CW	(AB/MPJ)
M14	3721	2-2	1600	Tue	361 361 361 00000	CW	(AB/MPJ)
M14	4636	23-2	1820	Tue	186 133 15 12345 32321 45451 89012 45456 ... 09876 13456 76890 65991 76765 89078 133 15 00000	MCW	(MPJ)
M14	4761	24-2	1920	Wed	478 133 15 12345 32321 45451 ... 65991 76765 89078 133 15 0000	MCW	(MPJ)
M14	4975	5-2	1800	Fri	382 382 382 00000	CW	(AB/MPJ)
M14	4975	18-2	1800	Thu	382 382 382 00000	CW	(PPA)
M14	4975	19-2	1800	Fri	382 382 382 00000	MCW	(MPJ)
M14	5374	19-2	1700	Fri	382 382 382 00000 (00090 but changed to 00000)	CW	(Danix)
M14	5430	6-2	0800	Sat	171 (R) 279 15 15 98712 56767 43244 ... 98123 63810 65567 279 279 15 15 followed by more traffic (see N&O 221)	CW	(AB)
M14	5430	13-2	0800	Sat	171	CW	(HFD)
M14	5560	13-2	0900	Sat	171 (R) 279 15 15 98712 56767 43244 ... 98123 63810 65567 279 279 15 15	CW	(AB)

M14	5561	13-2	0900	Sat	171 #79 15 98712	CW	(HFD)
M14	6767	14-2	0700	Sun	382 382 382 00000	CW	(AB)
M14	6767	28-2	0700	Sun	383 382 382 0000	CW	(AB)
M14	6786	15-2	0552	Mon	528 777 15 12121 12345 23456 ... 13579 24680 77775 777 15 00000	CW	(F5JBR)
M21	3494	23-2	1735	Tue	9623868697832 19096231933 009623 8686978193537 96138163501100 009623818069881 935517962081005121	CW	(F5JBR)
M21	4951	27-2	1844	Sat	PVO =992142??T?????	CW	(IK00ZK)
M21	9144	11-2	1008	Thu	=99?13??9?????	CW	(JPL-Sib)
M22	2680	4-2	2039	Thu	VVV DE 4XZ 4XZ	CW	(PPA)
M32	3348	14-2	1830	Sun	8B7Q DE HN2S K. R K. MZQB DE HN2S K. EYNB DE HN2S K. R K	CW	(JPL-Sib)
M32	3354	4-2	2151	Thu	EPDL 946 21 5 1006 946 = 182 = MMMMM BIKY\U SFVPN DA\ORT (Cont'd)	CW	(JPL-Sib)
M32	3392.5	14-2	1644	Sun	XXX VZFY 47058 KLUZODITR 2776 3524 K	CW	(F5JBR)
M32	3393	16-2	1431	Tue	VZQW DE SWV4 K. RPT K	CW	(JPL-Sib)
M32	3584	7-2	1317	Sun	AYR8 de YFJA QTC 491 27 7 1615 491 = 30 = 09133 61504 47917 ... 54590 06219 07025 = rpt msg 2x QLN AR	CW	(F5JBR)
M32	4245	23-2	1216	Tue	ZPLR DE Z1OA K. R K. 3.S3 DE Z1OA K. R K. N6GC DE Z1OA K	CW	(JPL-Sib)
M32	4973	25-2	1820	Thu	XCPK QTC 145 23 25 2104 145 = 5LGs	CW	(PPA)
M32	5192	4-2	1250	Thu	G3PI de WX1L Q.. 2045 2045 K. R QAN G3PL G3PL DE CITJ QSL 2050 QSL 2050 K	CW	(JPL-Sib)
M32	5202	5-2	1318	Fri	i.p. RPT 19 K. RPT 21 K. S42G R 924 K	CW	(JPL-Sib)
M32	5217	14-2	1418	Sun	NIP2 DE LWLN QSA? K. LWLN DE NIP2 QSA 1 QSA ? K. NIP2 QSA 2 K. OK K R K	CW	(JPL-Sib)
M32	5286	5-2	1320	Fri	KSTQ DE 8DSO R 924 ? K. R K	CW	(JPL-Sib)
M32	5386	14-2	1441	Sun	DE D5QD RPT PBL K. QVXP DE D5QD RPT PBL K. D5QD R 649 K	CW	(JPL-Sib)
M32	5387	11-2	0940	Thu	XXXX 5J7Q 5J7Q 83785 WE\HENXE 7059 2389 K	CW	(JPL-Sib)
M32	5400	5-2	0320	Fri	i.p. 761 975 245 741 144 993 364 828 897 365 K. VTFA DE YMAP K	CW	(JPL-Sib)
M32	5433	5-2	2001	Fri	GN7V DE L4LN K	CW	(JPL-Sib)
M32	5595	5-2	1739	Fri	XPLM (x3) QTC AR XPLM 580 27 5 2040 580 = 710 = RUD4I AMQUG OSBNV 'UJZSD ...	CW	(JPL-Sib)
M32	5750	14-2	1424	Sun	2ZQ9 (X3) 704 =79391 18936 09439 99365 46159 86420 06581 69027 ... (see N&O 221)	CW	(JPL-Sib)
M32	6454	15-2	2115	Mon	i.p. 88134 82971 89195 81382 16030 960 K. RPT K	CW	(AB)
M32	6857	24-2	1307	Wed	RGT77: XXX VN6B 42070 SEWOBUR 6441 4123 K //6883 kHz	CW	(F5JBR)
M32	6883	24-2	1307	Wed	RGT77: XXX VN6B 42070 SEWOBUR 6441 4123 K //6857 kHz	CW	(F5JBR)
M32	10553	24-2	1248	Wed	RGT77: XXX VN6B 73101 WINTIK 5077 8508 K	CW	(F5JBR)
M32	13904	11-2	0808	Thu	XXX WLHN 91792 42204 44352 015 = DDDDD OXYJL AYDCO ESQNP FLNSA ...	CW	(F5JBR)
M32a	1827.5	7-2	1501	Sun	RMU de RJD99 QTC 879544 68 7 1730 544 = PROGNOZ POGODYWETER UVNYJ UGO WOSTOONYJ 12/17 M/S PRIBREVENOJ ZONE NOWOJ ZEMLI BORA ...	CW	(F5JBR)
M32a	1827.5	7-2	1517	Sun	RMU de RJD99 QTC 544 68 7 1730 544 = PROGNOZ POGODY S19 OAS 7 FEWRALA DO 19 OAS 8 ...	CW	(F5JBR)

M32a	3547	7-2	1501	Sun	RGR99 RGR99 ZSA ? K. RGR87 DE RMW46 ZSA 3 R K. RGR89 DE RMW46 ZSA 4 R K. RGR90 DE RMW46 ZSA 2 R K	CW	(JPL-Sib)
M32a	3547	7-2	1504	Sun	RMG91 de RMW46 ZSA 4 R K. RGR92 DE RMW46 ZSA R K. RFH4. DE RMW46 ZSA 4 R K	CW	(JPL-Sib)
M32a	3547	7-2	1505	Sun	RGR93 DE RMW46 ZSA R K	CW	(JPL-Sib)
M32a	3547	15-2	1509	Mon	RGR97 DE RMW46 ZSA ? K. RMW46 DE RGR97 ZSA 4 ZSA ? K. RMW46 ZSA 4 R K. RGR98 DE RMW46 ZSA ? K	CW	(JPL-Sib)
M32a	5343	5-2	1724	Fri	RMP de RHI99 K. RHI99 DE RMP ZKM ? K. RMP DE RHI99 ZKM ZGR K. RMP ZDS GNG0 ZZT	CW	(JPL-Sib)
M32a	7523	12-2	1132	Fri	RWW34 DE RMW32 ZSA 2 R K. RMW36 R XXX. ZSA 2 K. RMW36 DE RMW32 ZSA 4 R K	CW	(JPL-Sib)
M32a	8120	11-2	0940	Thu	RAA QYT9 QWH 8423 QSX 8574 K. RJH77 OK QYT 9 QWH 8573 QSX 8424 K. RAA R K	CW	(JPL-Sib)
M32a	8460	8-2	0851	Mon	XXX RJC66 00129 GREHOHIOS 9513 7919 K	CW	(F5JBR)
M32a	8460	8-2	0934	Mon	XXX RJL96 14144 KWASODRAP 0058 2772 K	CW	(F5JBR)
M32a	8460	10-2	1215	Wed	XXX REO 21752 WSTAWOONYJ 0409 4309 K	CW	(F5JBR)
M32a	8460	10-2	1235	Wed	XXX RJD69 RJL96 RJL80 WOLOOUVKA 18320 43016 K	CW	(F5JBR)
M32a	8460	15-2	0945	Mon	XXX REO 83647 LETOCIRK 5820 0209 K	CW	(F5JBR)
M32a	9089	24-2	0836	Wed	35714 29874 26547 24020 = RFH72 DE RCC QTC 982 23 24 1130 982 = .8974 56984 25874 ... AR. RFH72 DE RCC QTC 279 23 24 1140 279 = 56487 52454 ...	CW	(JPL-Sib)
M32b	4979	6-2	1906	Sat	RBL66 DE DE RAL2 K. RAL2 DE RBL66 QSA 4 K. QSA 4 QRU VA (see N&O 221)	CW	(JPL-Sib)
M32c	7314	5-2	0829	Fri	XXX 1QRF 53417 NUHOLAZ 6590 5575 K	CW	(F5JBR)
M32c	7314	5-2	0829	Fri	XXX 1QRF 05802 KROWOSOS 3740 6406 LUKOLAK 5201 4385	CW	(F5JBR)
M32c	7314	5-2	0829	Fri	XXX 1QRF 33775 KINOMONTAV 8347 3319 K	CW	(F5JBR)
M32c	7314	5-2	0829	Fri	XXX 1QRF 53051 REANIMACI_T 8361 6229 K	CW	(F5JBR)
M32c	7314	5-2	0829	Fri	XXX 1QRF 49226 DOKUÈNYJ 6736 5780 PERLOKRAJ 0415 4398 K	CW	(F5JBR)
M32c	7314	5-2	0829	Fri	XXXX JUE4 MJUR 08098 049 = DDDD OXYJL ...	CW	(F5JBR)
M32c	7314	15-2	0939	Mon	XXX 1 QRF 25274 GIGROGRAF 6383 0804 SHWATYWANXE 4412 3923 MUS-SOBU_TN 6048 8455 K	CW	(F5JBR)
M32c	7314	19-2	0855	Fri	XXX 1QRF 11817 PLAQOPAR_T 4864 7086 K	CW	(F5JBR)
M32c	7314	19-2	0922	Fri	XXX 1QRF 07292 SUDOVID 9903 1118 K	CW	(F5JBR)
M32c	8112	11-2	0640	Thu	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8112	11-2	1442	Thu	W-markers: Tu-95MS Bear H	CW	(JPL-Sib)
M32c	8112	12-2	0920	Fri	W-markers: Tu-95MS Bear H	CW	(Tom)
M32c	8112	16-2	0600	Tue	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8112	17-2	1320	Wed	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	8112	18-2	0620	Thu	W-markers: Tu-95MS Bear H net	CW	(Tom)
M41	2006.5	9-2	0630	Tue	9932 998546 928 009933 9905 65132517993391005 11800 0009934 9905 289 0832 51799347100511800	CW	(F5JBR)
M41	2006.5	13-2	0530	Sat	VVVVVVV 5EQB 5EQB AR	CW	(F5JBR)
M41	5740	11-2	1330	Thu	J3VT J3VT AR	CW	(F5JBR)

M41	5740	13-2	1330	Sat	J3VT J3VT AR	CW	(F5JBR)
M41	5881.5	18-2	0746	Thu	001101 734 3021 718037 abv 001101 734 3021 7380 37 732 511 1101 800 38 AR	CW	(F5JBR)
M42	5080	1-2	1807	Mon	RDI RDI RDI DE RTK RTK QSA? K. QSA 4 QTC. NR 4/1 GR 59 1?2 2100 = UCHETNAYA = 47645 62347 97876 ... 36545 56189 86759 = + TU NIL GB 73	CW	(Benka)
M42	5225	26-2	0556	Fri	RVR39 wkg RTW54. Russian PtP net	RUS-ARQ 100/500	(PPA)
M42	9171	9-2	1515	Tue	Russian diplo. 11100 50080 42587 09004 04009 5555 21526 68413 04228 ... 49506 05046 77149 + Opchat in CW	FSK 75/500	(AB)
M42b	1777.5	12-2	1600	Fri	UWG2 de UUA4 QSA ? K and QSA 4 ZOR K. (Qsx on 4020 kHz)	CW	(F5JBR)
M42b	1790	5-2	0728	Fri	NLAT de VGKE QSA NO QSY 90527. QSA NO SK	CW	(F5JBR)
M42b	1790	8-2	0730	Mon	NLAT de VGKE QSA NO QSY 99068 and QSA NO SK) //3838 (08Feb16) (F5JBR)	CW	(F5JBR)
M42b	1823	22-2	0500	Mon	LM7K Wkg W9SP. Message in FSK and opchat in CW: QRU NIL SK	FSK 50/500	(F5JBR)
M42b	1845	8-2	1720	Mon	Message + opchat in CW: QRU NIL SK	FSK 50/500	(F5JBR)
M42b	3201	12-2	1538	Fri	Traffic in FSK, opchat in Morse: QRU NIL SK	FSK 50/500	(F5JBR)
M42b	3254	8-2	0629	Mon	L47D de UW9M QSA 2 QSY 54054 K	CW	(F5JBR)
M42b	3838	8-2	0730	Mon	NLAT de VGKE QSA NO QSY 99068 and QSA NO SK) //1790 (08Feb16) (F5JBR)	CW	(F5JBR)
M42b	4512	10-2	0805	Wed	K4MT wkg NT9P: QRU NIL SK. Msg in FSK 50/500	CW	(F5JBR)
M42b	5071	24-2	2023	Wed	BZL26	FSK 50/500	(PPA)
M42b	5191	7-2	1443	Sun	Wkg outstation QRU NIL SK	FSK 50/500	(F5JBR)
M42b	6224	17-2	0921	Wed	Msg in FSK, opchat in Morse: QRU NIL SK	FSK 50/500	(F5JBR)
M42b	6473	11-2	0920	Thu	2 messages + opchat in CW vv h e e col nr 235 k. rpt k. h e e col nr 235 k. zcc zvp zvp k. bk qrv	FSK 50/500	(Benka)
M42b	6925	13-2	0645	Sat	LKDW wkg PRAT	FSK 50/500	(F5JBR)
M42b	8120	25-2	1740	Thu	K4MT wkg NT9P. Message 617 126 25 1740 7821 = 56743 90876 46099 ... 06645 37149 46122	FSK 50/500	(F5JBR)
M42b	8120	25-2	1810	Thu	K4MT wkg NT9P. Message 635 104 25 1810 7495 = 00000 64758 83293 75147 ... 58912 86142 86819	FSK 50/500	(F5JBR)
M42b	10180	24-2	1233	Wed	K4MT wkg NT9P. Message in FSK and opchat in CW: QRU NIL SK	FSK 50/500	(F5JBR)
M42b	10220	13-2	0825	Sat	Russian diplo/intel. 5FGs using =50= and =100= group seperators	FSK 50/500	(PPA)
M42b	10483	25-2	1401	Thu	K4MT wkg NT9P. Message ends with 6 1407(Opchat in Morse: QRU NIL SK - QRX 11163	FSK 50/500	(F5JBR)
M42b	10483	25-2	1415	Thu	K4MT wkg NT9P. QRU NIL SK - QRX 11188	CW	(F5JBR)
M42b	10483	25-2	1430	Thu	K4MT wkg NT9P. QRU NIL SK - QRX 11193	CW	(F5JBR)
M42b	10483	25-2	1445	Thu	NT9P wkg K4MT. Message 666 129 25 1440 4783 = 45681 35929 21614 ... 09942 60492 21770. Opchat QRU NIL SK - QRX 11258	FSK 50/500	(F5JBR)
M42b	10483	25-2	1500	Thu	K4MT wkg NT9P. Message 505 126 25 1500 7420 = 56743 90876 46099... 06645 37149 46122	FSK 50/500	(F5JBR)
M42b	10483	25-2	1515	Thu	K4MT wkg NT9P. Opchat QRU NIL SK - QRX 11358	CW	(F5JBR)
M42b	10483	25-2	1640	Thu	K4MT wkg NT9P. Opchat in Morse: QRU NIL SK - QRX 11498	FSK 50/500	(F5JBR)
M42b	10960	25-2	1401	Thu	NT9P wkg K4MT	CW	(F5JBR)
M42b	10960	25-2	1415	Thu	K4MT wkg NT9P. Message 810 131 25 1410 5273 = 23224 50547 58596 ... 75710 98272 59309	FSK 50/500	(F5JBR)

M42b	10960	25-2	1425	Thu	K4MT wkg NT9P. Message 313 130 25 1425 2541 = 18635 84274 01900 ... 85556 84093 49748	FSK 50/500	(F5JBR)
M42b	10960	25-2	1500	Thu	NT9P wkg K4MT. Message 450 128 25 1455 4257 = 02069 30549 41202 ... 54736 46640 95970. Opchat QRU NIL SK - QRX 11263	FSK 50/500	(F5JBR)
M42b	10960	25-2	1600	Thu	K4MT wkg NT9P. Message 271 104 25 1415 1824 = 64758 83293 75847 ... 58912 86142 86819. Opchat QRU NIL SK - QSY 18878	FSK 50/500	(F5JBR)
M42b	13873	11-2	0836	Thu	UBI wkg RDK: QRU NIL SK	CW	(F5JBR)
M42c	4527	2-2	2000	Tue	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	5251	13-2	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/HFD)
M42c	5251	20-2	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	5251	27-2	1830	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	6844	2-2	1950	Tue	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	7641	13-2	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/HFD)
M42c	7641	20-2	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	7641	27-2	1820	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	8079	2-2	1035	Tue	Russian diplo/intel. =8191 637825255623638123 ...)58164 +++++++52 (2 msgs)	FSK 200/500	(AB)
M42c	8079	3-2	1022	Wed	Russian diplo/intel. =8631 60266960770220446 ...)72713 88041100000++++=74	FSK 200/500	(AB)
M42c	8079	4-2	1035	Thu	Russian diplo/intel. =8401 37927658678713584 ...)58162 +++++++18 (2 msgs)	FSK 200/500	(AB)
M42c	8079	5-2	1035	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	8079	8-2	1035	Mon	Russian diplo/intel. =8141 99629744124754187 ...)7271428342300000+++++177	FSK 200/500	(AB)
M42c	8079	9-2	1035	Tue	Russian diplo/intel. =9071 77978897588194257 ...)71260 8510700000+++++239 (2 msgs)	FSK 200/500	(AB)
M42c	8079	10-2	1035	Wed	Russian diplo/intel. =8311 106479808882332119 ...)581140+++++++79	FSK 200/500	(AB)
M42c	8079	11-2	1035	Thu	Russian diplo/intel. (1801110009777149281008700979 =7711 762207318519684102 ...)71063 8808100000+++++192 (2 msgs)	FSK 200/500	(AB)
M42c	8079	12-2	1035	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	8079	15-2	1035	Mon	Russian diplo/intel. =8541 04479786215485485 ... 81144+++++++91	FSK 200/500	(AB)
M42c	8079	16-2	1035	Tue	Russian diplo/intel. =8731 735192767493453123 ...)57661 00000+++++++160)2 msgs)	FSK 200/500	(AB)
M42c	8079	17-2	1035	Wed	Russian diplo/intel. =8411 18145333359642286 ...)7101469243500000+++++168	FSK 200/500	(AB)
M42c	8079	18-2	1035	Thu	Russian diplo/intel. =8181 821588521852294165 ...)57665 00000+++++++148 (2 msgs)	FSK 200/500	(AB)
M42c	8079	19-2	1035	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	8079	23-2	1035	Tue	Russian diplo/intel. =8131 49467920139188485 ...)57655 00000+++++++151	FSK 200/500	(AB)
M42c	8079	25-2	1035	Thu	Russian diplo/intel. =8561 474416891585587157 ...)57659 00000+++++++203	FSK 200/500	(AB)
M42c	8079	26-2	1035	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	8079	29-2	1035	Mon	Russian diplo/intel. =7701 84607402719778434 ...)6911400241700000+++++169	FSK 200/500	(AB)
M42c	8156	2-2	1940	Tue	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	9153	13-2	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ/H FD)

M42c	9153	20-2	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/MPJ)
M42c	9153	27-2	1810	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	10169	2-2	1025	Tue	Russian diplo/intel. =8191 637825255623638123 ...)58164 +++++52 (2 msgs)	FSK 200/500	(AB)
M42c	10169	3-2	1022	Wed	Russian diplo/intel. =8631 60266960770220446 ...)72713 88041100000++++=74	FSK 200/500	(AB)
M42c	10169	4-2	1025	Thu	Russian diplo/intel. =8401 37927658678713584 ...)58162 +++++18 (2 msgs)	FSK 200/500	(AB)
M42c	10169	5-2	1025	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	10169	8-2	1025	Mon	Russian diplo/intel. =8141 99629744124754187 ...)7271428342300000+++++177	FSK 200/500	(AB)
M42c	10169	9-2	1025	Tue	Russian diplo/intel. =9071 77978897588194257 ...)71260 8510700000+++++239 (2 msgs)	FSK 200/500	(AB)
M42c	10169	10-2	1025	Wed	Russian diplo/intel. =8311 106479808882332119 ...)581140+++++79	FSK 200/500	(AB)
M42c	10169	11-2	1025	Thu	Russian diplo/intel. (1801110009777149281008700979 =7711 762207318519684102 ...)71063 8808100000++++192 (2 msgs)	FSK 200/500	(AB)
M42c	10169	12-2	1025	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	10169	15-2	1025	Mon	Russian diplo/intel. =8541 04479786215485485 ... 81144+++++91	FSK 200/500	(AB)
M42c	10169	16-2	1025	Tue	Russian diplo/intel. =8731 735192767493453123 ...)57661 00000+++++160)2 msgs)	FSK 200/500	(AB)
M42c	10169	17-2	1025	Wed	Russian diplo/intel. =8411 1814533359642286 ...)7101469243500000+++++168	FSK 200/500	(AB)
M42c	10169	18-2	1025	Thu	Russian diplo/intel. =8181 821588521852294165 ...)57665 00000+++++148 (2 msgs)	FSK 200/500	(AB)
M42c	10169	19-2	1025	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	10169	22-2	1025	Mon	Russian diplo/intel. =8601 06702096512390878 ...)7401429542300000+++++179	FSK 200/500	(AB)
M42c	10169	23-2	1025	Tue	Russian diplo/intel. =8131 49467920139188485 ...)57655 00000+++++151	FSK 200/500	(AB)
M42c	10169	25-2	1025	Thu	Russian diplo/intel. =8561 474416891585587157 ...)57659 00000+++++203	FSK 200/500	(AB)
M42c	10169	26-2	1025	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	10169	29-2	1025	Mon	Russian diplo/intel. =7701 84607402719778434 ...)6911400241700000+++++169	FSK 200/500	(AB)
M42c	12184	1-2	1022	Mon	Russian diplo/intel i.p. =86313 4765075919418117127 ...)57614500000+++++21	FSK 200/500	(AB)
M42c	12184	2-2	1015	Tue	Russian diplo/intel. =8191 637825255623638123 ...)58164 +++++52 (2 msgs)	FSK 200/500	(AB)
M42c	12184	3-2	1022	Wed	Russian diplo/intel. =8631 60266960770220446 ...)72713 88041100000++++=74	FSK 200/500	(AB)
M42c	12184	4-2	1015	Thu	Russian diplo/intel. =8401 37927658678713584 ...)58162 +++++18 (2 msgs)	FSK 200/500	(AB)
M42c	12184	5-2	1015	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	12184	8-2	1015	Mon	Russian diplo/intel. =8141 99629744124754187 ...)7271428342300000+++++177	FSK 200/500	(AB)
M42c	12184	9-2	1015	Tue	Russian diplo/intel. =9071 77978897588194257 ...)71260 8510700000+++++239 (2 msgs)	FSK 200/500	(AB)
M42c	12184	10-2	1015	Wed	Russian diplo/intel. =8311 106479808882332119 ...)581140+++++79	FSK 200/500	(AB)
M42c	12184	11-2	1015	Thu	Russian diplo/intel. (1801110009777149281008700979 =7711 762207318519684102 ...)71063 8808100000++++192 (2 msgs)	FSK 200/500	(AB)
M42c	12184	12-2	1015	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	12184	15-2	1015	Mon	Russian diplo/intel. =8541 04479786215485485 ... 81144+++++91	FSK 200/500	(AB)

M42c	12184	16-2	1015	Tue	Russian diplo/intel. =8731 735192767493453123 ...)57661 00000+++++++160)2 msgs)	FSK 200/500	(AB)
M42c	12184	17-2	1015	Wed	Russian diplo/intel. =8411 18145333359642286 ...)7101469243500000+++++168	FSK 200/500	(AB)
M42c	12184	18-2	1015	Thu	Russian diplo/intel. =8181 821588521852294165 ...)57665 00000+++++++148 (2 msgs)	FSK 200/500	(AB)
M42c	12184	19-2	1015	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	12184	22-2	1015	Mon	Russian diplo/intel. =8601 06702096512390878 ...)7401429542300000+++++179	FSK 200/500	(AB)
M42c	12184	23-2	1015	Tue	Russian diplo/intel. =8131 49467920139188485 ...)57655 00000+++++++151	FSK 200/500	(AB)
M42c	12184	25-2	1015	Thu	Russian diplo/intel. =8561 474416891585587157 ...)57659 00000+++++++203	FSK 200/500	(AB)
M42c	12184	26-2	1015	Fri	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	12184	29-2	1015	Mon	Russian diplo/intel. =7701 84607402719778434 ...)6911400241700000+++++169	FSK 200/500	(AB)
M42c	15817	6-2	1320	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/HFD)
M42c	15817	13-2	1320	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/F5JBR)
M42c	15817	20-2	1320	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	15817	27-2	1320	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/PPA)
M42c	17456	6-2	1310	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/HFD)
M42c	17456	13-2	1310	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/F5JBR)
M42c	17456	20-2	1310	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	17456	27-2	1310	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/HFD)
M42c	19441	6-2	1300	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/HFD)
M42c	19441	13-2	1300	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB/F5JBR)
M42c	19441	20-2	1300	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42c	19441	27-2	1300	Sat	Russian diplo/intel.)5761 00000+++++++162	FSK 200/500	(AB)
M42d	3735	23-2	1920	Tue	Russian diplo/intel. Msg 132 dated 19 Feb on link 93667	FSK 200/1000	(PPA-Sib)
M42d	4989	17-2	2200	Wed	Russian diplo.intel.	FSK 200/1000	(Danix)
M42d	7319	1-2	0720	Mon	Russian diplo/intel. Msg nr 080 on link 45137	FSK 200/1000	(AB)
M42d	7319	2-2	0720	Tue	Russian diplo/intel. Wrong shift. Should be 1000Hz	FSK 200/1000	(AB)
M42d	7319	4-2	0720	Thu	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	7319	5-2	0720	Fri	Russian diplo/intel. Msg 080 on link 45137	FSK 200/1000	(AB)
M42d	7319	8-2	0720	Mon	Russian diplo/intel. Msg 095 on link 45136	FSK 200/1000	(AB)
M42d	7319	9-2	0720	Tue	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	7319	10-2	0720	Wed	Russian diplo/intel. Msg 102 on link 45136	FSK 200/1000	(AB)
M42d	7319	11-2	0720	Thu	Russian diplo/intel. Msg 105 on link 45136	FSK 200/1000	(AB)
M42d	7319	12-2	0720	Fri	Russian diplo/intel. Msg 212 on link 45136	FSK 200/1000	(AB)

M42d	7319	15-2	0720	Mon	Russian diplo/intel. Msg 110 on link 45136	FSK 200/1000	(AB)
M42d	7319	16-2	0720	Tue	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB)
M42d	7319	17-2	0720	Wed	Russian diplo/intel. Msg 117 on link 45137	FSK 200/1000	(AB)
M42d	7319	18-2	0720	Thu	Russian diplo/intel. Msg 120 on link 45136	FSK 200/1000	(AB)
M42d	7319	19-2	0720	Fri	Russian diplo/intel. Msg 007 on link 45136	FSK 200/1000	(AB)
M42d	7319	22-2	0720	Mon	Russian diplo/intel. Msg 125 on link 45136	FSK 200/1000	(AB)
M42d	7319	24-2	0720	Wed	Russian diplo/intel. Msg 132 on link 45136	FSK 200/1000	(AB)
M42d	7319	25-2	0720	Thu	Russian diplo/intel. Msg 135 on link 45137	FSK 200/1000	(AB)
M42d	7319	26-2	0720	Fri	Russian diplo/intel. Msg 237 on link 45136	FSK 200/1000	(AB)
M42d	7319	29-2	0720	Mon	Russian diplo/intel. Msg 140 on link 45136	FSK 200/1000	(AB)
M42d	7617	1-2	1220	Mon	Russian diplo/intel. Msg nr 080 on link 45137	FSK 200/1000	(AB)
M42d	7617	2-2	1220	Tue	Russian diplo/intel. Msg nr 082 on link 45137	FSK 200/1000	(AB)
M42d	7617	3-2	1220	Wed	Russian diplo/intel. Msg 087 on link 45136	FSK 200/1000	(AB)
M42d	7617	4-2	1220	Thu	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	7617	8-2	1220	Mon	Russian diplo/intel. Russian diplo/intel. Msg 095 on link 45136	FSK 200/1000	(AB/MPJ)
M42d	7617	9-2	1220	Tue	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	7617	10-2	1220	Wed	Russian diplo/intel. Msg 102 on link 45136	FSK 200/1000	(AB)
M42d	7617	11-2	1220	Thu	Russian diplo/intel. Msg 102 on link 45136	FSK 200/1000	(AB)
M42d	7617	15-2	1220	Mon	Russian diplo/intel. Msg 110 on link 45136	FSK 200/1000	(AB)
M42d	7617	16-2	1220	Tue	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB)
M42d	7617	17-2	1220	Wed	Russian diplo/intel. Msg 117 on link 45137	FSK 200/1000	(AB)
M42d	7617	18-2	1220	Thu	Russian diplo/intel. Msg 120 on link 45136	FSK 200/1000	(AB)
M42d	7617	22-2	1220	Mon	Russian diplo/intel. Msg 125 on link 45136	FSK 200/1000	(AB)
M42d	7617	24-2	1220	Wed	Russian diplo/intel. Msg 120 on link 45136	FSK 200/1000	(AB)
M42d	7617	25-2	1220	Thu	Russian diplo/intel. Msg 135 on link 45137	FSK 200/1000	(AB)
M42d	7617	29-2	1220	Mon	Russian diplo/intel. Msg 140 on link 45136	FSK 200/1000	(AB)
M42d	7637	2-2	1710	Tue	Russian diplo/intel. Null message on link 20501	FSK 200/1000	(AB/MPJ)
M42d	7637	9-2	1710	Tue	Russian diplo/intel. Null message on link 20501	FSK 200/1000	(AB)
M42d	7637	16-2	1710	Tue	Russian Diplo/Intel. Msg 147 on Link 20501	FSK 200/1000	(MPJ)
M42d	9091	26-2	0620	Fri	Russian diplo/intel. Msg 162 on link 40988	FSK 200/1000	(AB/Danix)
M42d	9164	1-2	1210	Mon	Russian diplo/intel. Msg nr 080 on link 45137	FSK 200/1000	(AB)
M42d	9164	2-2	1210	Tue	Russian diplo/intel. Msg nr 082 on link 45137	FSK 200/1000	(AB/MPJ)

M42d	9164	3-2	1210	Wed	Russian diplo/intel. Msg 087 on link 45136	FSK 200/1000	(AB/MPJ)
M42d	9164	4-2	1210	Thu	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	9164	8-2	1210	Mon	Russian diplo/intel. Russian diplo/intel. Msg 095 on link 45136	FSK 200/1000	(AB/MPJ)
M42d	9164	9-2	1210	Tue	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	9164	10-2	1210	Wed	Russian diplo/intel. Msg 102 on link 45136	FSK 200/1000	(AB)
M42d	9164	11-2	1210	Thu	Russian diplo/intel. Msg 102 on link 45136	FSK 200/1000	(AB)
M42d	9164	15-2	1210	Mon	Russian diplo/intel. Msg 110 on link 45136	FSK 200/1000	(AB)
M42d	9164	16-2	1210	Tue	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB)
M42d	9164	17-2	1210	Wed	Russian diplo/intel. Msg 117 on link 45137	FSK 200/1000	(AB)
M42d	9164	18-2	1210	Thu	Russian diplo/intel. Msg 120 on link 45136	FSK 200/1000	(AB)
M42d	9164	22-2	1210	Mon	Russian diplo/intel. Msg 125 on link 45136	FSK 200/1000	(AB)
M42d	9164	24-2	1210	Wed	Russian diplo/intel. Msg 120 on link 45136	FSK 200/1000	(AB)
M42d	9164	25-2	1210	Thu	Russian diplo/intel. Msg 135 on link 45137	FSK 200/1000	(AB)
M42d	9164	29-2	1210	Mon	Russian diplo/intel. Msg 140 on link 45136	FSK 200/1000	(AB)
M42d	9216	2-2	1700	Tue	Russian diplo/intel. Null message on link 20501	FSK 200/1000	(AB/MPJ)
M42d	9216	9-2	1700	Tue	Russian diplo/intel. Null message on link 20501	FSK 200/1000	(AB)
M42d	9244	1-2	0710	Mon	Russian diplo/intel. Msg nr 080 on link 45137	FSK 200/1000	(AB)
M42d	9244	2-2	0710	Tue	Russian diplo/intel. Wrong shift. Should be 1000Hz	FSK 200/1000	(AB)
M42d	9244	4-2	0710	Thu	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	9244	5-2	0710	Fri	Russian diplo/intel. Msg 080 on link 45137	FSK 200/1000	(AB)
M42d	9244	8-2	0710	Mon	Russian diplo/intel. Msg 095 on link 45136	FSK 200/1000	(AB)
M42d	9244	9-2	0710	Tue	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	9244	10-2	0710	Wed	Russian diplo/intel. Msg 102 on link 45136	FSK 200/1000	(AB)
M42d	9244	11-2	0710	Thu	Russian diplo/intel. Msg 105 on link 45136	FSK 200/1000	(AB)
M42d	9244	12-2	0710	Fri	Russian diplo/intel. Msg 212 on link 45136	FSK 200/1000	(AB)
M42d	9244	15-2	0710	Mon	Russian diplo/intel. Msg 110 on link 45136	FSK 200/1000	(AB)
M42d	9244	16-2	0710	Tue	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB)
M42d	9244	17-2	0710	Wed	Russian diplo/intel. Msg 117 on link 45137	FSK 200/1000	(AB)
M42d	9244	18-2	0710	Thu	Russian diplo/intel. Msg 120 on link 45136	FSK 200/1000	(AB)
M42d	9244	19-2	0710	Fri	Russian diplo/intel. Msg 007 on link 45136	FSK 200/1000	(AB)
M42d	9244	22-2	0710	Mon	Russian diplo/intel. Msg 125 on link 45136	FSK 200/1000	(AB)
M42d	9244	24-2	0710	Wed	Russian diplo/intel. Msg 132 on link 45136	FSK 200/1000	(AB)

M42d	9244	25-2	0710	Thu	Russian diplo/intel. Msg 135 on link 45137	FSK 200/1000	(AB)
M42d	9244	26-2	0710	Fri	Russian diplo/intel. Msg 237 on link 45136	FSK 200/1000	(AB)
M42d	9244	29-2	0710	Mon	Russian diplo/intel. Msg 140 on link 45136	FSK 200/1000	(AB)
M42d	10214	14-2	1550	Sun	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(MPJ/BvR)
M42d	10226	26-2	0610	Fri	Russian diplo/intel. Msg 162 on link 40988	FSK 200/1000	(AB/Danix)
M42d	11048	1-2	0700	Mon	Russian diplo/intel. Msg nr 080 on link 45137	FSK 200/1000	(AB)
M42d	11048	2-2	0700	Tue	Russian diplo/intel. Wrong shift. Should be 1000Hz	FSK 200/500	(AB)
M42d	11048	4-2	0700	Thu	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	11048	5-2	0700	Fri	Russian diplo/intel. Msg 080 on link 45137	FSK 200/1000	(AB)
M42d	11048	8-2	0700	Mon	Russian diplo/intel. Msg 095 on link 45136	FSK 200/1000	(AB)
M42d	11048	9-2	0700	Tue	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	11048	10-2	0700	Wed	Russian diplo/intel. Msg 102 on link 45136	FSK 200/1000	(AB)
M42d	11048	11-2	0700	Thu	Russian diplo/intel. Msg 105 on link 45136	FSK 200/1000	(AB)
M42d	11048	12-2	0700	Fri	Russian diplo/intel. Msg 212 on link 45136	FSK 200/1000	(AB)
M42d	11048	15-2	0700	Mon	Russian diplo/intel. Msg 110 on link 45136	FSK 200/1000	(AB)
M42d	11048	16-2	0700	Tue	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB)
M42d	11048	17-2	0700	Wed	Russian diplo/intel. Msg 117 on link 45137	FSK 200/1000	(AB)
M42d	11048	18-2	0700	Thu	Russian diplo/intel. Msg 120 on link 45136	FSK 200/1000	(AB)
M42d	11048	19-2	0700	Fri	Russian diplo/intel. Msg 007 on link 45136	FSK 200/1000	(AB)
M42d	11048	22-2	0700	Mon	Russian diplo/intel. Msg 125 on link 45136	FSK 200/1000	(AB)
M42d	11048	24-2	0700	Wed	Russian diplo/intel. Msg 132 on link 45136	FSK 200/1000	(AB)
M42d	11048	25-2	0700	Thu	Russian diplo/intel. Msg 135 on link 45137	FSK 200/1000	(AB)
M42d	11048	26-2	0700	Fri	Russian diplo/intel. Msg 237 on link 45136	FSK 200/1000	(AB)
M42d	11048	29-2	0700	Mon	Russian diplo/intel. Msg 140 on link 45136	FSK 200/1000	(AB)
M42d	11164	1-2	1200	Mon	Russian diplo/intel. Msg nr 080 on link 45137	FSK 200/1000	(AB)
M42d	11164	2-2	1200	Tue	Russian diplo/intel. Msg nr 082 on link 45137	FSK 200/1000	(AB)
M42d	11164	3-2	1200	Wed	Russian diplo/intel. Msg 087 on link 45136	FSK 200/1000	(AB)
M42d	11164	4-2	1200	Thu	Russian diplo/intel. Msg 090 on link 45137	FSK 200/1000	(AB)
M42d	11164	8-2	1200	Mon	Russian diplo/intel. Wrong shift. Should be 1000Hz	FSK 200/500	(AB)
M42d	11164	9-2	1200	Tue	Russian diplo/intel. Msg 097 on link 45136	FSK 200/1000	(AB)
M42d	11164	10-2	1200	Wed	Russian diplo/intel. Msg 102 on link 45136	FSK 200/1000	(AB)
M42d	11164	11-2	1200	Thu	Russian diplo/intel. Msg 102 on link 45136	FSK 200/1000	(AB)

M42d	11164	15-2	1200	Mon	Russian diplo/intel. Msg 110 on link 45136	FSK 200/1000	(AB)
M42d	11164	16-2	1200	Tue	Russian diplo/intel. Msg 112 on link 45136	FSK 200/1000	(AB)
M42d	11164	17-2	1200	Wed	Russian diplo/intel. Msg 117 on link 45137	FSK 200/1000	(AB)
M42d	11164	18-2	1200	Thu	Russian diplo/intel. Msg 120 on link 45136	FSK 200/1000	(AB)
M42d	11164	22-2	1200	Mon	Russian diplo/intel. Msg 125 on link 45136	FSK 200/1000	(AB)
M42d	11164	24-2	1200	Wed	Russian diplo/intel. Msg 120 on link 45136	FSK 200/1000	(AB/MPJ)
M42d	11164	25-2	1200	Thu	Russian diplo/intel. Msg 135 on link 45137	FSK 200/1000	(AB)
M42d	11164	29-2	1200	Mon	Russian diplo/intel. Msg 140 on link 45136	FSK 200/1000	(AB)
M42d	11471	2-2	1650	Tue	Russian diplo/intel. Null message on link 20501	FSK 200/1000	(AB)
M42d	11471	9-2	1650	Tue	Russian diplo/intel. Null message on link 20501	FSK 200/1000	(AB)
M42d	12083	14-2	1540	Sun	Russian diplo/intel. Msg 002 on link 20501	FSK 200/1000	(MPJ/BvR)
M42d	12196	4-2	1240	Thu	Russian diplo/intel. Msg 022 on link 49237	FSK 200/1000	(AB)
M42d	12196	11-2	1350	Thu	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	12196	18-2	1350	Thu	Russian diplo/intel. Msg 117 on link 49237	FSK 200/1000	(AB)
M42d	12196	25-2	1350	Thu	Russian diplo/intel. Msg 242 on link 49237	FSK 200/1000	(MPJ/F5JB R)
M42d	12214	26-2	0600	Fri	Russian diplo/intel. Msg 162 on link 40988	FSK 200/1000	(AB/Danix)
M42d	14351	13-2	0920	Sat	Russian diplo/intel. Msg 062 on link 45115	FSK 200/1000	(AB/Danix)
M42d	14351	14-2	0920	Sun	Russian diplo/intel. Msg 062 on link 45115	FSK 200/1000	(AB)
M42d	14351	27-2	0920	Sat	Russian diplo/intel. Msg 065 on link 45114	FSK 200/1000	(AB)
M42d	14351	28-2	0920	Sun	Russian diplo/intel. Msg 065 on link 45115	FSK 200/1000	(AB)
M42d	14483	4-2	1230	Thu	Russian diplo/intel. Msg 022 on link 49237	FSK 200/1000	(AB)
M42d	14483	11-2	1340	Thu	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	14483	18-2	1340	Thu	Russian diplo/intel. Msg 117 on link 49237	FSK 200/1000	(AB)
M42d	14483	25-2	1340	Thu	Russian diplo/intel. Msg 242 on link 49237	FSK 200/1000	(MPJ/F5JB R)
M42d	14519	3-2	1250	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB)
M42d	14519	17-2	1250	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB)
M42d	15621	10-2	1020	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
M42d	15621	17-2	1020	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
M42d	15825	6-2	1120	Sat	Russian diplo/intel. Msg 100 on link 36882	FSK 200/1000	(AB)
M42d	15825	13-2	1120	Sat	Russian diplo/intel. Msg 102 on link 36882	FSK 200/1000	(AB/Danix)
M42d	15825	14-2	1120	Sun	Russian diplo/intel. Msg 102 on link 36882	FSK 200/1000	(AB/BvR)
M42d	15825	20-2	1120	Sat	Russian diplo/intel. Msg 105 on link 36882	FSK 200/1000	(AB/Danix)

M42d	15825	27-2	1120	Sat	Russian diplo/intel. Msg 107 on link 36882	FSK 200/1000	(AB)
M42d	15825	28-2	1120	Sun	Russian diplo/intel. Msg 107 on link 36882	FSK 200/1000	(AB)
M42d	15869	3-2	0820	Wed	Russian diplo/intel. Msg 247 on link 45075	FSK 200/1000	(AB)
M42d	15869	10-2	0820	Wed	Russian diplo/intel. Msg 095 on link 45075	FSK 200/1000	(AB)
M42d	15869	17-2	0820	Wed	Russian diplo/intel. Msg 137 on link 45075	FSK 200/1000	(AB)
M42d	15881	9-2	1420	Tue	Russian diplo/intel. Msg 100 on link 32799	FSK 200/1000	(AB)
M42d	15881	10-2	1420	Wed	Russian diplo/intel. Msg 100 on link 32799	FSK 200/1000	(AB)
M42d	15881	16-2	1420	Tue	Russian diplo/intel. Msg 102 on link 32799	FSK 200/1000	(AB)
M42d	16144	3-2	1240	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB/MPJ)
M42d	16144	17-2	1240	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB)
M42d	16152	4-2	1220	Thu	Russian diplo/intel. Msg 022 on link 49237	FSK 200/1000	(AB)
M42d	16153	13-2	1020	Sat	Russian diplo/intel. Msg 200 on link 45057	FSK 200/1000	(AB/Danix/ F5JBR)
M42d	16153	14-2	1020	Sun	Russian diplo/intel. Msg 200 on link 45057	FSK 200/1000	(AB/F5JBR)
M42d	16153	27-2	1020	Sat	Russian diplo/intel. Msg 200 on link 45057	FSK 200/1000	(AB)
M42d	16154	11-2	1330	Thu	Russian diplo/intel. Msg 007 on link 49237	FSK 200/1000	(AB)
M42d	16154	18-2	1330	Thu	Russian diplo/intel. Msg 117 on link 49237	FSK 200/1000	(AB)
M42d	16154	25-2	1330	Thu	Russian diplo/intel. Msg 242 on link 49237	FSK 200/1000	(MPJ)
M42d	16165	10-2	0900	Wed	Russian diplo/intel. Msg 237 on link 16405	FSK 200/1000	(Danix)
M42d	16165	11-2	0900	Thu	Russian diplo/intel. Msg 237 on link 16405	FSK 200/1000	(AB)
M42d	16165	25-2	0900	Thu	Russian diplo/intel. Msg 240 on link 16405	FSK 200/1000	(AB/F5JBR)
M42d	16246	3-2	1420	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	4-2	1420	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	5-2	1420	Fri	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	6-2	1420	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	7-2	1420	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	8-2	1420	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	9-2	1420	Tue	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	10-2	1420	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	11-2	1420	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	12-2	1420	Fri	Russian diplo/intel. Msg 002 on link 41023	FSK 200/1000	(AB/MPJ)
M42d	16246	13-2	1420	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/Danix)
M42d	16246	14-2	1420	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)

M42d	16246	15-2	1420	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)
M42d	16246	16-2	1420	Tue	Russian diplo/intel. Msg 012 on link 41022	FSK 200/1000	(AB)
M42d	16246	17-2	1420	Wed	Russian diplo/intel. Msg 012 on link 41022	FSK 200/1000	(AB)
M42d	16246	18-2	1420	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	21-2	1420	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	22-2	1420	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	24-2	1420	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	25-2	1420	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)
M42d	16246	27-2	1420	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	28-2	1420	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16246	29-2	1420	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	16260	13-2	0910	Sat	Russian diplo/intel. Msg 062 on link 45115	FSK 200/1000	(AB/Danix)
M42d	16260	14-2	0910	Sun	Russian diplo/intel. Msg 062 on link 45115	FSK 200/1000	(AB)
M42d	16260	27-2	0910	Sat	Russian diplo/intel. Msg 065 on link 45114	FSK 200/1000	(AB)
M42d	16260	28-2	0910	Sun	Russian diplo/intel. Msg 065 on link 45115	FSK 200/1000	(AB)
M42d	17454	9-2	1410	Tue	Russian diplo/intel. Msg 100 on link 32799	FSK 200/1000	(AB)
M42d	17454	10-2	1410	Wed	Russian diplo/intel. Msg 100 on link 32799	FSK 200/1000	(AB)
M42d	17454	16-2	1410	Tue	Russian diplo/intel. Msg 102 on link 32799	FSK 200/1000	(AB)
M42d	17461	10-2	0810	Wed	Russian diplo/intel. Msg 095 on link 45075	FSK 200/1000	(AB)
M42d	17489	10-2	1010	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
M42d	17546	6-2	1110	Sat	Russian diplo/intel. Msg 100 on link 36882	FSK 200/1000	(AB)
M42d	17546	13-2	1110	Sat	Russian diplo/intel. Msg 102 on link 36882	FSK 200/1000	(AB/Danix)
M42d	17546	14-2	1110	Sun	Russian diplo/intel. Msg 102 on link 36882	FSK 200/1000	(AB/BvR)
M42d	17546	20-2	1110	Sat	Russian diplo/intel. Msg 105 on link 36882	FSK 200/1000	(AB/Danix)
M42d	17546	27-2	1110	Sat	Russian diplo/intel. Msg 107 on link 36882	FSK 200/1000	(AB)
M42d	17546	28-2	1110	Sun	Russian diplo/intel. Msg 107 on link 36882	FSK 200/1000	(AB)
M42d	18039	3-2	1410	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	4-2	1410	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	5-2	1410	Fri	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	6-2	1410	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	7-2	1410	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	8-2	1410	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)

M42d	18039	9-2	1410	Tue	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	10-2	1410	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	11-2	1410	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	12-2	1410	Fri	Russian diplo/intel. Msg 002 on link 41023	FSK 200/1000	(AB)
M42d	18039	13-2	1410	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/Danix)
M42d	18039	14-2	1410	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)
M42d	18039	15-2	1410	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	16-2	1410	Tue	Russian diplo/intel. Msg 012 on link 41022	FSK 200/1000	(AB)
M42d	18039	17-2	1410	Wed	Russian diplo/intel. Msg 012 on link 41022	FSK 200/1000	(AB)
M42d	18039	18-2	1410	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	21-2	1410	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	22-2	1410	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	24-2	1410	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	25-2	1410	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)
M42d	18039	27-2	1410	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	28-2	1410	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18039	29-2	1410	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	18048	13-2	0900	Sat	Russian diplo/intel. Msg 062 on link 45115	FSK 200/1000	(AB/Danix)
M42d	18048	14-2	0900	Sun	Russian diplo/intel. Msg 062 on link 45115	FSK 200/1000	(AB/BvR)
M42d	18048	27-2	0900	Sat	Russian diplo/intel. Msg 065 on link 45114	FSK 200/1000	(AB)
M42d	18048	28-2	0900	Sun	Russian diplo/intel. Msg 065 on link 45115	FSK 200/1000	(AB)
M42d	18235	3-2	1230	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB/MPJ)
M42d	18235	17-2	1230	Wed	Russian diplo/intel. Msg 002 on link 53277	FSK 200/1000	(AB)
M42d	18253	13-2	1520	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB/Danix)
M42d	18253	13-2	1550	Sat	Russian diplo/intel. Msg on link 32821. Header: 1be9 8035 990c 8202 04e1	FSK 200/1000	(Danix)
M42d	18253	20-2	1100	Sat	Russian diplo/intel. Msg 057 on link 32821	FSK 200/1000	(MPJ)
M42d	18253	27-2	1520	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	18429	13-2	1010	Sat	Russian diplo/intel. Msg 200 on link 45057	FSK 200/1000	(AB/Danix/ F5JBR)
M42d	18429	14-2	1010	Sun	Russian diplo/intel. Msg 200 on link 45057	FSK 200/1000	(AB/F5JBR)
M42d	18429	27-2	1010	Sat	Russian diplo/intel. Msg 200 on link 45057	FSK 200/1000	(AB)
M42d	18669	13-2	1550	Sat	Russian diplo/intel. Msg on link 32821. Header: 1be9 8035 990c 8202 04e1	FSK 200/1000	(Danix)
M42d	18669	27-2	1550	Sat	Russian diplo/intel. Null msg on link 38821 1be9 8035 05c5 0e02 04e1	FSK 200/1000	(AB/Danix)

M42d	18730	10-2	0900	Wed	Russian diplo/intel. Msg 237 on link 16405	FSK 200/1000	(Danix)
M42d	18730	11-2	0900	Thu	Russian diplo/intel. Msg 237 on link 16405	FSK 200/1000	(AB)
M42d	18730	25-2	0900	Thu	Russian diplo/intel. Msg 240 on link 16405	FSK 200/1000	(AB/F5JBR)
M42d	19583	9-2	1400	Tue	Russian diplo/intel. Msg 100 on link 32799	FSK 200/1000	(AB)
M42d	19583	10-2	1400	Wed	Russian diplo/intel. Msg 100 on link 32799	FSK 200/1000	(AB)
M42d	19583	16-2	1400	Tue	Russian diplo/intel. Msg 102 on link 32799	FSK 200/1000	(AB)
M42d	19654	10-2	0800	Wed	Russian diplo/intel. Msg 095 on link 45075	FSK 200/1000	(AB)
M42d	19823	6-2	1100	Sat	Russian diplo/intel. Msg 100 on link 36882	FSK 200/1000	(AB)
M42d	19823	13-2	1100	Sat	Russian diplo/intel. Msg 102 on link 36882	FSK 200/1000	(AB/Danix)
M42d	19823	14-2	1100	Sun	Russian diplo/intel. Msg 102 on link 36882	FSK 200/1000	(AB)
M42d	19823	20-2	1100	Sat	Russian diplo/intel. Msg 105 on link 36882	FSK 200/1000	(AB/Danix)
M42d	19823	27-2	1100	Sat	Russian diplo/intel. Msg 107 on link 36882	FSK 200/1000	(AB)
M42d	19823	28-2	1100	Sun	Russian diplo/intel. Msg 107 on link 36882	FSK 200/1000	(AB)
M42d	19984	10-2	1000	Wed	Russian diplo/intel. Msg 002 on link 49202	FSK 200/1000	(AB)
M42d	20064	3-2	1400	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	4-2	1400	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	5-2	1400	Fri	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	6-2	1400	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	7-2	1400	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	8-2	1400	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	9-2	1400	Tue	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	10-2	1400	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	11-2	1400	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	12-2	1400	Fri	Russian diplo/intel. Msg 002 on link 41023	FSK 200/1000	(AB)
M42d	20064	13-2	1400	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/Danix)
M42d	20064	14-2	1400	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)
M42d	20064	15-2	1400	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	16-2	1400	Tue	Russian diplo/intel. Msg 012 on link 41022	FSK 200/1000	(AB)
M42d	20064	17-2	1400	Wed	Russian diplo/intel. Msg 012 on link 41022	FSK 200/1000	(AB)
M42d	20064	18-2	1400	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	21-2	1400	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	22-2	1400	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)

M42d	20064	24-2	1400	Wed	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	25-2	1400	Thu	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB/MPJ)
M42d	20064	27-2	1400	Sat	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	28-2	1400	Sun	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20064	29-2	1400	Mon	Russian diplo/intel. Msg 002 on link 41022	FSK 200/1000	(AB)
M42d	20216	13-2	1510	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB/Danix)
M42d	20216	13-2	1540	Sat	Russian diplo/intel. Msg on link 32821. Header: 1be9 8035 990c 8202 04e1	FSK 200/1000	(Danix)
M42d	20216	20-2	1100	Sat	Russian diplo/intel. Msg 057 on link 32821	FSK 200/1000	(MPJ)
M42d	20216	27-2	1510	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	20363	13-2	1540	Sat	Russian diplo/intel. Msg on link 32821. Header: 1be9 8035 990c 8202 04e1	FSK 200/1000	(Danix)
M42d	20363	27-2	1540	Sat	Russian diplo/intel. Null msg on link 38821 1be9 8035 05c5 0e02 04e1	FSK 200/1000	(AB/Danix)
M42d	20894	14-2	1000	Sun	Russian diplo/intel. Msg 200 on link 45057	FSK 200/1000	(AB/F5JBR)
M42d	20894	27-2	1000	Sat	Russian diplo/intel. Msg 200 on link 45057	FSK 200/1000	(AB)
M42d	20916	10-2	0900	Wed	Russian diplo/intel. Msg 237 on link 16405	FSK 200/1000	(Danix)
M42d	20916	11-2	0900	Thu	Russian diplo/intel. Msg 237 on link 16405	FSK 200/1000	(AB)
M42d	20916	25-2	0900	Thu	Russian diplo/intel. Msg 240 on link 16405	FSK 200/1000	(AB/F5JBR)
M42d	20984	13-2	1000	Sat	Russian diplo/intel. Msg 200 on link 45057	FSK 200/1000	(AB/Danix/ F5JBR)
M42d	22878	13-2	1500	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB/Danix)
M42d	22878	27-2	1500	Sat	Russian diplo/intel. Msg 002 on link 32821	FSK 200/1000	(AB)
M42d	22986	13-2	1530	Sat	Russian diplo/intel. Msg on link 32821. Header: 1be9 8035 990c 8202 04e1	FSK 200/1000	(Danix)
M42d	22986	13-2	1530	Sat	Russian diplo/intel. Msg on link 32821. Header: 1be9 8035 990c 8202 04e1	FSK 200/1000	(Danix)
M42d	22986	27-2	1530	Sat	Russian diplo/intel. Null msg on link 38821 1be9 8035 05c5 0e02 04e1	FSK 200/1000	(AB/Danix)
M51a	6825	8-2	1008	Mon	French Slow Morse Practice. Plain language scripts.	CW	(MPJ)
M51a	6825	24-2	1247	Wed	FAV22: Mercredi lepon numÚro 03-2/3 vitesse 720 codÚ = yutgd sgqsa ... 5LGs ...	CW	(MPJ)
M51a	6825	29-2	1526	Mon	FAV22: French Morse Practice: 37628 pmlay dgcvx wnhye ... (Mixed 5LGs & 5FGs)	CW	(MPJ)
M51a	6870	11-2	0652	Thu	FAV22 French CSTEI Favieres/Vernon	CW	(F5JBR)
M51a	6870	11-2	0808	Thu	FAV22 French CSTEI Favieres/Vernon //8193.5 kHz	CW	(F5JBR)
M51a	8193.5	11-2	0808	Thu	FAV22 French CSTEI Favieres/Vernon //6870 kHz	CW	(F5JBR)
M51a	11519	28-2	2136	Sun	5LGs with occasional 5FG group FAV22 REF //13244.4 kHz	CW	(MCO)
M51a	13244.4	28-2	2136	Sun	5LGs with occasional 5FG group FAV22 REF //11519 kHz	CW	(MCO)
M89	3516	9-2	1559	Tue	i.p. DP91 QSA ? K. NIL SK GB DE DP91 DE DP74NJ QSA 1 ?	CW	(JPL)
M89	3516	18-2	1600	Thu	i.p. DE DP7.91 QSA 2 QSA ? K. DP7391 QSA	CW	(JPL)

M89	3642	4-2	1233	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	4-2	2155	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	6-2	1749	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	6-2	1859	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	7-2	0039	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	7-2	1209	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	7-2	2130	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	8-2	1252	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	8-2	1807	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	9-2	0150	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	9-2	1535	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	9-2	1609	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	9-2	2003	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	10-2	2002	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	11-2	1454	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	11-2	1921	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3642	12-2	0032	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	12-2	1725	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	12-2	1732	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	14-2	1114	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	14-2	1835	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	15-2	0105	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	15-2	1419	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	16-2	1429	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3642	16-2	1825	Tue	V DKG6 (x3) DE 3A7D (x2) //5230	CW	(JPL)
M89	3642	16-2	2245	Tue	V DKG6 (x3) DE 3A7D (x2) //5230	CW	(JPL)
M89	3642	17-2	1609	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	17-2	2010	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	18-2	0202	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	18-2	1547	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	18-2	2146	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	19-2	0027	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)

M89	3642	19-2	1531	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	20-2	2311	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	21-2	1342	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	21-2	1729	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	22-2	1329	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	22-2	1846	Mon	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(PPA-Sib)
M89	3642	23-2	1325	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	24-2	2007	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3642	25-2	1248	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	3702	8-2	1317	Mon	i.p. COMM CJ1R K. R HR NO K. R HR WK NR 35 K. R SK	CW	(JPL)
M89	3789	7-2	1511	Sun	i.p. 3554 46A3 N5A. AR QSL ?HR WK NR 13A AS MSG GA NR 0017 CK 1852 .4 456 0206 204. RMKS CQ	CW	(JPL)
M89	3870	16-2	1422	Tue	i.p. U67N 4TUD 764U 4UA4	CW	(JPL)
M89	3894	17-2	1602	Wed	i.p. V DP7691 QSA 2 NIL DP7691 QSA 2 NIL DP7691 QSA 2 SK GB DP7491 QSA 2 NIL SK GB	CW	(JPL)
M89	3894	18-2	1605	Thu	i.p. DP7691 GB	CW	(JPL)
M89	3894	19-2	1600	Fri	i.p. DP91 QSA 2 NIL SK DP7791 DP91 QSA 2 NIL SK GB	CW	(JPL)
M89	4101	25-2	1250	Thu	i.p. 7UT4 7U5D 4N7U 65T3 4N36 AR QSL ? K R OK	CW	(JPL)
M89	4121	25-2	1250	Thu	i.p. TA64 67U5 67U3 3ND4 7N5U DNU3	CW	(JPL)
M89	4131	6-2	1900	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	7-2	0037	Sun	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	7-2	2129	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	8-2	0018	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	9-2	1611	Tue	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	9-2	2001	Tue	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	10-2	2006	Wed	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	11-2	1451	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	11-2	1925	Thu	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	12-2	1740	Fri	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	14-2	1836	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	15-2	1422	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	15-2	1706	Mon	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	16-2	1440	Tue	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	16-2	2247	Tue	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)

M89	4131	17-2	1617	Wed	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	18-2	1609	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	18-2	2148	Thu	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	19-2	0030	Fri	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	19-2	1529	Fri	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	21-2	1343	Sun	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	21-2	1730	Sun	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	22-2	1349	Mon	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	23-2	1324	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	23-2	1634	Tue	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4131	24-2	2009	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4131	25-2	1257	Thu	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	4137	25-2	1256	Thu	i.p. AUT5 3A67 D7T6 N3TU 375A	CW	(JPL)
M89	4375	18-2	1358	Thu	V CQ (x3) DE DP4096 (x2)	CW	(JPL)
M89	4510	25-2	1619	Thu	i.p. unreadble	CW	(JPL)
M89	4640	15-2	1233	Mon	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4640	15-2	1235	Mon	VVV 3Z9 3Z9 3Z9 DE ZN4 ZN4 QSA? QSV K	CW	(AB-HK)
M89	4720	4-2	1230	Thu	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	7-2	2130	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	11-2	1430	Thu	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	11-2	1930	Thu	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	12-2	0030	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	12-2	1730	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	14-2	1630	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	15-2	1230	Mon	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	15-2	1230	Mon	VVV WNF WNF WNF DE FXM FXM QSA? QSV K	CW	(AB-HK)
M89	4720	19-2	1530	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	20-2	2330	Sat	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	21-2	1730	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	21-2	1830	Sun	VVV WNF (x3) DE FXM (x2) QSA ? QSV K (1835z)	CW	(JPL)
M89	4720	23-2	1630	Tue	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4720	25-2	2330	Thu	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)

M89	4720	26-2	2330	Fri	VVV WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4860	4-2	1220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	6-2	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	6-2	1920	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	7-2	0020	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	8-2	2220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	9-2	1620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	11-2	1420	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	11-2	1920	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	12-2	0020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	12-2	2220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	13-2	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	14-2	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	15-2	1220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	15-2	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	19-2	0020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	19-2	1520	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	20-2	0020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	20-2	2320	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	21-2	1820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	23-2	1220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	23-2	1620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	25-2	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	25-2	1620	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4860	26-2	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	4886	7-2	0037	Sun	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	9-2	1611	Tue	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	9-2	2001	Tue	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	10-2	2006	Wed	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	11-2	1925	Thu	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	12-2	1740	Fri	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	14-2	1116	Sun	V JKDJ (x3) DE SLBC (x2) //5177	CW	(JPL)

M89	4886	15-2	1706	Mon	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	16-2	1440	Tue	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	16-2	2247	Tue	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	17-2	1617	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4886	17-2	2011	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	4886	18-2	2148	Thu	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	19-2	0030	Fri	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	19-2	1529	Fri	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	21-2	1343	Sun	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	21-2	1730	Sun	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	22-2	1349	Mon	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	23-2	1634	Tue	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	25-2	1257	Thu	V JKDJ (x3) DE SLBC (x2) //4131	CW	(JPL)
M89	4886	25-2	1845	Thu	V JKDJ JKDJ JKDJ DE SLBC SLBC	CW	(PPA-Sib)
M89	5034	4-2	1240	Thu	i.p. TD63 4TND .6UA A763 TTT5 N73U AR	CW	(JPL)
M89	5123	4-2	1244	Thu	i.p. OK AS K. K K. CFM NIL SK	CW	(JPL)
M89	5135	25-2	1241	Thu	i.p. TO 4627 K. R = FWF/IFN AR K. = FWF/IFH K	CW	(JPL)
M89	5147	16-2	1458	Tue	i.p. RMKS 458. TO .786 K R GA K	CW	(JPL)
M89	5177	4-2	1243	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	6-2	1029	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	7-2	1243	Sun	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	8-2	1011	Mon	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	9-2	0208	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	9-2	1038	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	10-2	1007	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	12-2	1017	Fri	V JKDJ (x3) DE SLBC (x2) //N/H	CW	(JPL)
M89	5177	14-2	1116	Sun	V JKDJ (x3) DE SLBC (x2) //4886	CW	(JPL)
M89	5177	18-2	1120	Thu	i.p. T47A UD37 4N7A NR 0029	CW	(JPL)
M89	5177	23-2	1233	Tue	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5179	4-2	1249	Thu	i.p. 6TD7 6AU4 N6U7 T.A7 TN4U 4D45 AR K. R 33W BT 3.N7 AR K. R U 7G GA K	CW	(JPL)
M89	5186	25-2	1240	Thu	i.p. 4756 TU64 TU56 A765 AUDN AR	CW	(JPL)
M89	5192	22-2	1329	Mon	i.p. NR 4507/EX TIME 2140 RMKS 2801268 TO 2801264 = (see N&O 221)	CW	(JPL)

M89	5201	26-2	1250	Fri	i.p. 3TA UATT AR R QSL R SK SK	CW	(JPL)
M89	5220	26-2	1252	Fri	i.p. A43D D447 D7A4 4D73 34AD 34AD U6T7 346A (Cont'd)	CW	(JPL)
M89	5226	23-2	1300	Tue	i.p. DPR7 DE 4ISX K. VV J2VR DE 4ISX K (see N&O 221)	CW	(JPL)
M89	5230	16-2	1825	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5230	16-2	2245	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5234	23-2	1258	Tue	i.p. 67D5 6N7D 43NU 6UA3 3D74 ...	CW	(JPL)
M89	5282	15-2	1427	Mon	i.p. R QSA 2 HR WK NR 310 K. R U NO N KP HR K	CW	(JPL)
M89	5301	23-2	1253	Tue	i.p. CCK CK 28 13 0223 2050 RMKS 8832 TO 4048 844 EEEEE RMKS 8832 TO 4048 8441 4041 8555 4201 =	CW	(JPL)
M89	5301	26-2	1227	Fri	VV BDRT (x3) DE HBVD (x2) HR SVC GA SVC GA = 384/C229/4914/67/62/00/265/COMM/8842 AR	CW	(JPL)
M89	5331	26-2	1235	Fri	R J2QS DE F2NU R QSA 1 QSA ? K. R HR WK NR 0512 K (see N&O 221)	CW	(JPL)
M89	5347	6-2	1042	Sat	i.p. 6545 53A3 DD77 3U67 66UD	CW	(JPL)
M89	5347	9-2	0957	Tue	i.p. V 4IPT DE CH4W K. R QSA 2 HR WK NR 10 R U NW COMM 7891 K	CW	(JPL)
M89	5352	18-2	1549	Thu	i.p. UDND 4435 7A5T	CW	(JPL)
M89	5381	15-2	1432	Mon	i.p. T64D UU3N 6AUN	CW	(JPL)
M89	5436	18-2	1109	Thu	i.p. R KIJT8 DE 45RF R QSA 2 QSA ? K (see N&O 221)	CW	(JPL)
M89	5438	23-2	1239	Tue	i.p. 364N 5T46 D6U5 U45N 6U7T ...	CW	(JPL)
M89	5454	15-2	1434	Mon	i.p. 7DA3 NU74	CW	(JPL)
M89	5477	23-2	1242	Tue	i.p. RF NR NR 825/EX 2041 RMKS 9937 TO 8289 =	CW	(JPL)
M89	5486	15-2	1436	Mon	i.p. R MSG MSG GA K. FF NR 5859 TIME 2240 RMKS 2590657 TO 2590756 = (see N&O 221)	CW	(JPL)
M89	5500	7-2	2137	Sun	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	5500	9-2	1149	Tue	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	5500	9-2	1536	Tue	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	5500	9-2	1935	Tue	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	5500	10-2	0003	Wed	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	5500	10-2	1956	Wed	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	5511	9-2	1054	Tue	i.p. RPT 140W K. QSL QSL 1855 K. HR NR 01/CCK CK 191 12 0209 1820 RMKS 1242 TO 9362 K	CW	(JPL)
M89	5518	18-2	1552	Thu	i.p. DDTT 333N U67A 4T66 N44D III III = N45T ..63 4DAU 5N6T ...	CW	(JPL)
M89	5533	9-2	1050	Tue	i.p. UNN5 3U54 47TU 33U4 N7N4 T676 TTN4 TT4U K	CW	(JPL)
M89	5545	11-2	0941	Thu	i.p. mostly unreadable	CW	(JPL)
M89	5555	12-2	0025	Fri	i.p. T5A6 U5T6 A4T7 53NA 46N3 FM? D4FM? 76TU TU73 4NT5 AU34 567D ...	CW	(JPL)
M89	5555	12-2	1038	Fri	o.p. R QSL ? K. R R QSL .. = 63U5 .A.. VV = = =	CW	(JPL)
M89	5555	17-2	1116	Wed	Messy traffic i.p. 7LACI EEEE CE.TPXHOMFCQUDI NFBMLWUGXILNE EEE WIGHT PFKJV UYYAS EEEEEEE ...	CW	(JPL)

M89	5555	17-2	1619	Wed	i.p. DNAT 4735 6U43 67NU D5AT III = NU	CW	(JPL)
M89	5555	18-2	1347	Thu	i.p. 7G NR 282A 7374 7D74 6364 3U45 D43D NDNU AR MSG NR 273 AR	CW	(JPL)
M89	5555	23-2	1057	Tue	i.p. MSG GA K NR.7 AN4A N7A3 .N3.A743 TA3 4UDT T5UT T AR	CW	(JPL)
M89	5555	23-2	1224	Tue	i.p. III VV UQC K. NR 0023 CK 49 24 0130 15.. = 7NA 55437 N3X A35U A4D7 6N4N D4A7 NT7A ...	CW	(JPL)
M89	5555	25-2	1120	Thu	i.p. FF NR 01/EX 0/EX 10.. R GA = 54LIU/1HENG K	CW	(JPL)
M89	5572	8-2	0022	Mon	i.p. U3T5 5764 546.	CW	(JPL)
M89	5572	26-2	1227	Fri	i.p. 5T4A7 5NN5 T7UD NT57 AR VV . . GA ...	CW	(JPL)
M89	5643	10-2	1010	Wed	i.p. A55A U543 AD6. UDUD AR K. R QSL 1811 K. VV FDR5 DE ZSW5 K	CW	(JPL)
M89	5643	10-2	1112	Wed	Voice traffic	USB	(JPL)
M89	5692	10-2	1020	Wed	i.p. CQ = 55UT 556U 5547 55UD ... AR QSL ? HR WK NR 21 HR CQ QSL 1822	CW	(JPL)
M89	5692	11-2	0942	Thu	i.p. T7U6 D5NN N44U T7TU N7D7 T57N	CW	(JPL)
M89	5800	17-2	1107	Wed	i.p. 6D4D 6543 33NU AR AR VV GA AR HG PSE .. PSE K	CW	(JPL)
M89	5801	6-2	1030	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	6-2	1039	Sat	i.p. 83184 .3528 TO 3338 = SVC QAW 3528 QRW L184448 2000 COMM 4058 AR QSL ? HR WK NR 10 //10180	CW	(JPL)
M89	5801	8-2	1015	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	9-2	1105	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	10-2	1005	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	11-2	1004	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	11-2	1921	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5801	12-2	1019	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	13-2	1216	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	15-2	1223	Mon	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	18-2	0202	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	18-2	1058	Thu	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	20-2	0814	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	23-2	1052	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	23-2	1231	Tue	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	24-2	0824	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	5801	26-2	1248	Fri	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd) //10180	CW	(JPL)
M89	6326	9-2	1042	Tue	C54S DE J4VW (see N&O 221)	CW	(JPL)
M89	6471	12-2	1123	Fri	(i.p. 3N5T 6U7D N7A4 DU56 3T6A 4T7U 3P 3P = A75T 4N4D 7U.A ...	CW	(JPL)
M89	6485	16-2	1443	Tue	i.p. DUTN 4NA7 74DN DAD6 4UU4 AR K. R QSL 2245 K	CW	(JPL)

M89	6556	4-2	1328	Thu	i.p. 5NU4 D3A7 T6U7 A56T 43ND	CW	(JPL)
M89	6573	4-2	1322	Thu	i.p. NR 01 CK 160 55 0126 1210 = DN = D. NA45U 76DT 5AN3 DN4T U467 57UA 3674 TDUN 5A36 7DUT ...	CW	(JPL)
M89	6586	8-2	0025	Mon	i.p. R QSL 0823 QSL 0823 K. R R HR 7G GA K. NR 3928 CK 300 44 0208 0800 RMKS CQ K	CW	(JPL)
M89	6621	15-2	0147	Mon	i.p. 6UA7 4D3N 3UNT 7NAD AR K QS. 4.... K NR AGN NR ... CK 100 29 0215 00..RMKS 25.756 TO 257.6.. 3...	CW	(JPL)
M89	6637	24-2	0911	Wed	i.p. D546 37AN N65. N4UD 7AU6 ...	CW	(JPL)
M89	6666	17-2	1112	Wed	i.p. /CCK CK 191 .. 0217 2000 RMKS 6467 TO 6444 =	CW	(JPL)
M89	6666	18-2	1052	Thu	i.p. D3NA DTTT N557	CW	(JPL)
M89	6704	26-2	1220	Fri	i.p. U7A5 T4A7 TDU7 D5NA D6U4 AR K	CW	(JPL)
M89	6840	4-2	1220	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	6-2	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	6-2	1920	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	7-2	0020	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	8-2	2220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	9-2	1620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	11-2	1420	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	11-2	1920	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	12-2	0020	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	12-2	0120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	12-2	2220	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	13-2	1120	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	14-2	1120	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	15-2	1120	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	6840	15-2	1220	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	15-2	1420	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	17-2	1620	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	6840	18-2	0120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	20-2	0020	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	20-2	2320	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	21-2	1820	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	23-2	1220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	23-2	1620	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	24-2	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)

M89	6840	25-2	1120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	25-2	1620	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6840	26-2	0120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	6840	26-2	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6868	9-2	1033	Tue	i.p. 7A3N 6DT4 5T3A N7U3 7TD4 AR K. RPT ... AR K. R U CALL U CALL U CALL	CW	(JPL)
M89	6891	12-2	1127	Fri	i.p. N4UD 11 EEEE 11W BT BT N4UD OK K. QSL 1927 HR WK NR 115 NR 6150 K	CW	(JPL)
M89	6953	15-2	0108	Mon	i.p. DAU7 .4T3 N75. 6A57 75.5	CW	(JPL)
M89	7602	4-2	1233	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	6-2	0029	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	7602	6-2	1859	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	7-2	0039	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	7-2	1209	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	7-2	2130	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	8-2	1252	Mon	i.p. AR QSL ? HR WK NR 080V DKG6 DE 3A7D //3642	CW	(JPL)
M89	7602	9-2	0150	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	9-2	1609	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	9-2	2003	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	10-2	2002	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	12-2	0032	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	12-2	1732	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	14-2	1114	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	14-2	1835	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	15-2	0105	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	15-2	1419	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	17-2	1609	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	17-2	2010	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	18-2	0202	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	18-2	1547	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	18-2	2146	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	20-2	2311	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	21-2	1342	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	21-2	1729	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)

M89	7602	22-2	1329	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	23-2	1325	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	24-2	2007	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7602	25-2	1248	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	7652	15-2	0037	Mon	i.p. R MSG NR 3958 CK 100 98 0215 0830 RMKS 2590268 TO 2590260 = ATDN A5U4 4DA5 TNAD 543U ... AR	CW	(JPL)
M89	7654	15-2	0039	Mon	i.p. R GA K. QSL 0833 0833 K. FF NR 7943 /EX TIME 0834 RMKS 2590264 TO 2590267 =	CW	(JPL)
M89	7777	20-2	0744	Sat	i.p. VVV 8JRS 8JRS DE JJVR K K (see N&O 221)	CW	(JPL)
M89	7777	20-2	0815	Sat	Msg i.p.	CW	(AB-HK)
M89	7777	23-2	1108	Tue	i.p. 7TN6 7AD6 5TD7 A77U DT3N ANU6 4D46	CW	(JPL)
M89	7777	25-2	1159	Thu	(i.p. UD47 56NT A4U3 567N DTA4 T764 DU5N	CW	(JPL)
M89	7777	25-2	1225	Thu	i.p. 76NT 56A4 4AU7 TN7A 4UDT TAN3 DA7T	CW	(JPL)
M89	7890	15-2	0157	Mon	i.p. TNA6 3N4D .54T UN3T 53DU A756	CW	(JPL)
M89	7987	15-2	0113	Mon	i.p. 4N5T 4D7U 5A4D 455T AR K. R U GA K. R U GA K	CW	(JPL)
M89	8017	12-2	1137	Fri	i.p. QSY 03 NR U QSY 03 NR U QSY NR 03 NR U QSY 03 NR K. 1993 1993 1993 1993 K	CW	(JPL)
M89	8056	12-2	0040	Fri	i.p. AR R	CW	(JPL)
M89	8069	12-2	0035	Fri	i.p. 7557 56UD D4NT AN6T TNA7 37AT AR K	CW	(JPL)
M89	8110	8-2	1000	Mon	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	8110	10-2	0955	Wed	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	8110	15-2	0143	Mon	V 7NPE (x3) DE QV5B (x2)	CW	(JPL)
M89	8123	15-2	0116	Mon	i.p. QSL ? K. NIL NR 043/CCK CK 40 45 0215 0850 RMKS 7641 TO 7111 TO 7.80 TO 5071 TO 7641 K	CW	(JPL)
M89	8144	9-2	0153	Tue	i.p. N47. 3A43 UAU3 AU74 7DT3	CW	(JPL)
M89	8144	9-2	0215	Tue	i.p. R MSG NR 044 CK .018 .. 0209 1014 RMKS 5682 TO 7376 K	CW	(JPL)
M89	8321	24-2	0901	Wed	i.p. BT 4UN5 5744 5A4D N3N7 VV MSK.	CW	(JPL)
M89	8451	18-2	0154	Thu	i.p. ADN4 4T6A 6U47 6UAD UD3N AR FM 5? TU ? QSL ?	CW	(JPL)
M89	8720	15-2	0025	Mon	i.p. 6666A U73AN 55A7D 6UNT335537 3A3T7 NAT75 6U64 T4..T4A.. 7NDN7 = (see N&O 221)	CW	(JPL)
M89	8745	15-2	0031	Mon	i.p. 6NT7 5NNN A3TU 3677 UTU7 6674 TN53 AR K	CW	(JPL)
M89	8772	24-2	0847	Wed	i.p. T5AD 6N4D N7DA 7543 AR	CW	(JPL)
M89	8878	18-2	0142	Thu	i.p. 3U7D 7DNT AR N EEEE K. R GA K	CW	(JPL)
M89	9131	9-2	0925	Tue	i.p. R RPT 29W K. R RPT 29W = AB4 TA64 (see N&O 221)	CW	(JPL)
M89	9180	9-2	0945	Tue	i.p. CK 91 03 0209 1730 RMKS 4208 TO 1006 = 73.75.. 7.5 UD3A D45N ..	CW	(JPL)
M89	10180	6-2	1030	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	8-2	1015	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)

M89	10180	9-2	0920	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10180	9-2	1005	Tue	i.p. QSL ? HR WK NR 100 V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10180	9-2	1105	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	10-2	1005	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	11-2	1004	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	12-2	1019	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	13-2	1125	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	10180	13-2	1216	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	15-2	1223	Mon	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	18-2	0202	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	18-2	1058	Thu	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	20-2	0814	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	23-2	1052	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	23-2	1231	Tue	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	24-2	0824	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10180	26-2	1248	Fri	V DKG6 (x3) DE 3A7D (x2) (IP - Cont'd) //5801	CW	(JPL)
M89	10640	9-2	1020	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	10640	12-2	0120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	18-2	0120	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	24-2	0920	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10640	26-2	0120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M95	4243	7-2	1219	Sun	i.p. 336 N3U 446 4D3 3DA 336 N3U 3DU 5AA 75U 35A ... A HR UP SB W K	CW	(JPL-Sib)
M95	4243	9-2	1150	Tue	i.p. 4D3 3DU 34A N3U 3D4 5AA 75U 35A N3D 353 ... //9054 kHz (see N&O 221)	CW	(JPL-HK)
M95	4243	12-2	1148	Fri	i.p. TTU TT3 7.. 344 63D 333 U33 AR (see N&O 221) //9054 kHz	CW	(JPL-HK)
M95	4243	12-2	1157	Fri	i.p. 34T N3U 3D5 TT5 773 N44 5AA 75U 36A 336 AR A HR U PSE WK AR //9054 kHz	CW	(JPL-HK)
M95	4243	13-2	1149	Sat	No callsign sent. ONMR PSE CY NR 081 CK 22 35 0213 1528 = STD UTT TA3 3U6 7TA T54 3A4 354 377 4TA ... //9054 kHz	CW	(JPL-HK)
M95	4243	14-2	1145	Sun	i.p. NR 083 21 35 0214 1546 = DUT TTA 43U 67T AN4 43A 435 353 377 4A5 U7U ... //9054 kHz	CW	(JPL-HK)
M95	4243	16-2	1148	Tue	Message //9054 kHz	CW	(JPL-Sib)
M95	4243	16-2	1148	Tue	CY NR 087 CK NR 087 CK 28 35 0216 1520 = 5TU.. 3U6 3A4 35U 4A5 N3D 4AA U7U N4A ... //9054 kHz	CW	(JPL-HK)
M95	4243	17-2	1146	Wed	VVV HR MSG TOYRPE CY NR 089 CK 19 35 0UA7 A5AU = STD UTT TA6 3U6 3A4 35U ... //9054 kHz	CW	(JPL-HK/AB-HK)
M95	4243	18-2	1145	Thu	7G NR 091 CK 21 35 0218 1.16 = AR 7G AGN NR 091 CK 21 35 0218 1.16 = STD UAT ... //9054 kHz	CW	(JPL-HK)
M95	4243	23-2	1151	Tue	i.p. NR 0218 49 0222 1040 = 76U6 U6N... N7U TN3 N44 UN6 ... //9054 kHz	CW	(JPL-HK)

M95	4243	24-2	1145	Wed	i.p. HR 7G RPT PSE CY NR 02 CK 18 49 0222 1030 = T76 U6N ND6 N7U //9054 kHz	CW	(JPL-HK)
M95	4243	25-2	1147	Thu	VV HR MSG OT.. PSE CY NR 005 CK 19 35 0225 1513 = 5TD UTT TU5 3U6 3A4 353 4A5 N3D 4AA ... //9054 kHz	CW	(JPL-HK)
M95	4243	26-2	1147	Fri	VV HR MSG TOY R PSE CY NR 007 21 35 0226 1512 = 5TD UTT TU6 4U6 3A4 35U N4D 353 4TN ... //9054 kHz	CW	(JPL-HK)
M95	4283	10-2	0934	Wed	i.p. 453 3AN 454 365 4AD 447 MSG AGN NR 114 CK 194 35 0209 1556 ... ZNN VA //7553 kHz	CW	(JPL-HK)
M95	5192	22-2	1329	Mon	NR 4507/EX TIME 2140 RMKS 2801268 TO 2801264 = (see N&O 221)	CW	(JPL-Sib)
M95	5678	5-2	2345	Fri	05 05 05 05 05 VV A ..NR .. GT 37652367D	CW	(JPL-Sib)
M95	7553	6-2	0945	Sat	XSV70 i.p. N35 447 4DD 4D6 NR 119 CK .25 35 0.06 0705 34D UT3 .3U4 3A4 773 354 U46 ...	CW	(JPL-HK)
M95	7553	10-2	0934	Wed	i.p. 453 3AN 454 365 4AD 447 MSG AGN NR 114 CK 194 35 0209 1556 ... ZNN VA //4283 kHz	CW	(JPL-HK)
M95	7554	8-2	0919	Mon	V BNEC (x3) DE XSV70 HR MSG GA PSE CY NR 116 CK 197 35 0208 152. 34D .3TTD 3U6 3A4 ...	CW	(JPL-HK)
M95	7777	13-2	2325	Sat	i.p. BNCG DE XSV85 HR MSG GA CY NR QSL 1237 QST AAM QSA 3 QSA ? K K	CW	(JPL-HK)
M95	8053	23-2	1139	Tue	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0167 CK 255 35 0223 1626 = TU3 3U6 3AN 3U7 TAU ...	CW	(JPL-HK)
M95	8060	15-2	0011	Mon	i.p. 05 05 05 = III AR	CW	(JPL-Sib)
M95	8073	6-2	0006	Sat	V BNGC (x3) DE XSV85 (x2) HR 7GS GA PSE CY NR 0105 CK 96 35 0206 0704 = TT6 3U4 3A4 TAU ...	CW	(JPL-HK)
M95	8073	6-2	1139	Sat	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0107 CK 26. 35 0206 1549 = TT6 3U6 3AN 3U7 ...	CW	(JPL-HK)
M95	8073	7-2	0005	Sun	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY HR MSG GA NR 0109 CK 96 35 0207 0700 = TT7 3U4 4A4 TAU 773 TAD ...	CW	(JPL-Sib)
M95	8073	7-2	1140	Sun	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0111 CK 300 35 0207 1609 = TT7 3U6 3AN 3U7 TAU 773 ...	CW	(JPL-Sib)
M95	8073	8-2	0005	Mon	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0113 CK 34 35 0208 0705 = TTU N5U TTD N53 ...	CW	(JPL-HK)
M95	8073	9-2	1136	Tue	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0119 CK 174 35 0209 1552 = TTN 3U6 3AN 3U7 TAU ...	CW	(JPL-HK)
M95	8073	10-2	0006	Wed	V BNGC (x3) DE XSV85 (x2)	CW	(JPL-HK)
M95	8073	12-2	0006	Fri	i.p. NR 0124 CK 109 35 0212 0714 = TAU 3U4 3A4 TAU 773 357 (see N&O 221)	CW	(JPL-HK)
M95	8073	12-2	1140	Fri	i.p. NR 0125 CK 252 35 0212 1545 NR 0125 CK 252 35 0212 1545 = TAU 3U6 3AN 3U7 TAU 773 TA7 773 TAD ...	CW	(JPL-HK)
M95	8073	13-2	1140	Sat	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0128 CK 30 06 35 0213 AT5 = TA3 3U6 4AN 3U7 TAU 773 347 ...	CW	(JPL-HK)
M95	8073	14-2	1156	Sun	V BNGC (x3) DE XSV85 (x2) NR 0132 CK 38 35 0214 1536 = TTU N5U TA4 N43 TAD N54 7TT TT4 746 7T5 ...	CW	(JPL-HK)
M95	8073	15-2	0012	Mon	XSV85 i.p. CK 38 35 0215 0708 = TTU N5U TA5 N54 TT6 N54 7TT NT5 746 7T5 77T ... AR AR (0015z) (Switched to voice)	CW	(JPL-Sib)
M95	8073	15-2	0202	Mon	i.p. NIL SK GB	CW	(JPL-Sib)
M95	8073	15-2	1206	Mon	XSV85 i.p. 777 3TU N77 445 337343 NN3 446 467 3D5 4D6 D6T ...	CW	(JPL-Sib)
M95	8073	16-2	1140	Tue	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0140 CK 32 35 0216 1619 = TTU N5U TA6 N54 TAD 647 TTT TU7 ...	CW	(JPL-HK)
M95	8073	17-2	1137	Wed	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY CY MSG NR 0144 CK 238 35 0217 1549 = TA7 4U6 3AN 3U7 TAU ...	CW	(JPL-HK/AB-HK)
M95	8073	18-2	1150	Thu	V BNGC (x3) DE XSV85 (x2) HR 7GS HR 7G SGA NR 0147 CK 49 35 0218 1541 = TTU N5U TAD N54 TAD ...	CW	(JPL-HK)
M95	8073	19-2	0006	Fri	V BNGC (x3) DE XSV85 (x2) MSGS GA PSE CY NR 0149 CK 13. 35 0219 0705 = TA. 3U4 4A...	CW	(JPL-HK)
M95	8073	19-2	1150	Fri	V BNGC (x3) DE XSV85 (x2) A HR 7GS GA NR 0151 CK 330 35 0219 1614 = TAN 3U6 3AN 3U7 TAU ...	CW	(JPL-HK)
M95	8073	20-2	0006	Sat	V BNGC (x3) DE XSV85 (x2) HR MSGS GA NR NR NR 0153 CK 106 35 0220 0714 = TUT 4U4 4A4 TAU 773 ...	CW	(JPL-HK)

M95	8073	21-2	0008	Sun	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0157 CK 141 35 0221 0711 = TUA 3U4 3A4 TAU 773 TA7 773 ...	CW	(JPL-HK)
M95	8073	24-2	0010	Wed	XSV85 i.p 773 TU6 773 354 373 ...	CW	(JPL-HK)
M95	8073	24-2	1138	Wed	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0171 CK 42 35 0224 1609 = TTU N5U TU4 N53 TAD N54 7TT TT6 746...	CW	(JPL-HK)
M95	8073	25-2	1140	Thu	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0175 CK 272 35 0225 1555 = TU5 3U6 3AN 3U7 TAU 773 TA7 773	CW	(JPL-HK)
M95	8073	26-2	0007	Fri	V BNGC (x3) DE XSV85 (x2) HR MSG GA PSE CY NR 0177 CK 122 35 0226 0715 = TU6 3U4 3A4 TAU 773 TA7 ...	VW	(JPL-HK)
M95	8073	26-2	1140	Fri	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0179 CK 336 35 0226 1602 = TU6 3U6 4AN 3U7 TAU 773 ...	CW	(JPL-HK)
M95	8073	27-2	0006	Sat	V BNGC (x3) DE XSV85 (x2) HR 7GS GA PSE CY NR 0181 CK 108 35 0227 0718 = TU7 4U4 4A4 TAU 773 TA7 773 TAD 773...	CW	(JPL-HK)
M95	8073	27-2	1141	Sat	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 0184 CK 290 35 0227 1540 = TU7 3U6 ...	CW	(JPL-HK)
M95	8888	12-2	1029	Fri	i.p. TT5 34U N3D 4T3 NN3 447 46D 3D4 4DT 4D7 TUT 773 356 36T ...	CW	(JPL-HK)
M95	8888	23-2	1118	Tue	i.p. 447U 5D7U D5DU AUAT U745 UU7A 4UA6 74 ...	CW	(JPL-HK)
M95	9054	9-2	1150	Tue	i.p. 4D3 3DU 34A N3U 3D4 5AA 75U 35A N3D 353 ... //4243 kHz (see N&O 221)	CW	(JPL-HK)
M95	9054	12-2	1148	Fri	i.p. TTU TT3 7.. 344 63D 333 U33 AR (see N&O 221) //4243 kHz	CW	(JPL-HK)
M95	9054	12-2	1157	Fri	i.p. 34T N3U 3D5 TT5 773 N44 5AA 75U 36A 336 AR A HR U PSE WK AR //4243 kHz	CW	(JPL-HK)
M95	9054	13-2	1149	Sat	No callsign sent. ONMR PSE CY NR 081 CK 22 35 0213 1528 = STD UTT TA3 3U6 7TA T54 3A4 354 377 4TA ... //4243 kHz	CW	(JPL-HK)
M95	9054	14-2	1145	Sun	i.p. NR 083 21 35 0214 1546 = DUT TTA 43U 67T AN4 43A 435 353 377 4A5 U7U ... //4243 kHz	CW	(JPL-HK)
M95	9054	14-2	2350	Sun	No callsign sent. R MSG TO YR PSE CY NR 074 1. 35 35 0215 0620 = 25.5 3U4 3A4 ...	CW	(JPL-Sib)
M95	9054	15-2	0001	Mon	i.p. NR 075 CK 25 35 0215 0722 = STA5 3U4 763 7TA TTA TTU TT3 773 4TA NR 29 CK 54 35 0215 0813 =	CW	(JPL-Sib)
M95	9054	16-2	1148	Tue	Message //4243 kHz	CW	(JPL-Sib)
M95	9054	16-2	1148	Tue	CY NR 087 CK NR 087 CK 28 35 0216 1520 = 5TU.. 3U6 3A4 35U 4A5 N3D 4AA U7U N4A ... //4243 kHz	CW	(JPL-HK)
M95	9054	17-2	1146	Wed	VVV HR MSG TOYRPE CY NR 089 CK 19 35 0UA7 A5AU = 5TD UTT TA6 3U6 3A4 35U ... //4243 kHz	CW	(JPL-HK/AB-HK)
M95	9054	18-2	1145	Thu	7G NR 091 CK 21 35 0218 1.16 = AR 7G AGN NR 091 CK 21 35 0218 1.16 = 5TD UAT ... //4243 kHz	CW	(JPL-HK)
M95	9054	19-2	0002	Fri	i.p. 773 357 4TN 34T AR A HR UP SB TWK	CW	(JPL-HK)
M95	9054	20-2	2347	Sat	VVV HR A HR 7G GA CY R PSE CY NR 093 CK 19 35 0221 0557 = UT5 TUA 3U4 3A5 TTA ...	CW	(JPL-HK)
M95	9054	21-2	2340	Sun	i.p. 7G AGN NR 41 CK 096 35 0221 0726 = UTU 354 3A4 777 334 ... AR	CW	(JPL-HK)
M95	9054	21-2	2351	Sun	UUT6 UU UT5TUU3U 43A 4TT A TTU 73 773 357 37U ...	CW	(JPL-HK)
M95	9054	23-2	1151	Tue	i.p. NR 0218 49 0222 1040 = 76U6 U6N... N7U TN3 N44 UN6 ... //4243 kHz	CW	(JPL-HK)
M95	9054	24-2	0011	Wed	i.p. AR 7G AGN NR 002 CK 19 35 0224 0054 = ..5 TTD U..TU4 ...	CW	(JPL-HK)
M95	9054	24-2	1145	Wed	i.p. HR 7G RPT PSE CY NR 02 CK 18 49 0222 1030 = T76 U6N ND6 N7U //4243 kHz	CW	(JPL-HK)
M95	9054	25-2	1147	Thu	VV HR MSG OT.. PSE CY NR 005 CK 19 35 0225 1513 = 5TD UTT TU5 3U6 3A4 353 4A5 N3D 4AA ... //4243 kHz	CW	(JPL-HK)
M95	9054	25-2	2343	Thu	VVV R 7G TOY R PSE CY = NR 09 CK 17 35 0226 0615 = UT5 TU6 344 3A4 TTA TTU TT3 773 356 4AD ...	CW	(JPL-HK)
M95	9054	26-2	1147	Fri	VV HR MSG TOY R PSE CY NR 007 21 35 0226 1512 = 5TD UTT TU6 4U6 3A4 35U N4D 353 4TN ... //4243 kHz	CW	(JPL-HK)
M95	9054	26-2	2346	Fri	VVV VVV HR MSG OTY RPSE CY NR 008 CK 20 35 0227 0634 = 5TD UTT TU7 3U4 3A4 353 N3D 354 35D 4TA ...	CW	(JPL-HK)

M95	9054	27-2	1148	Sat	VV HR TO OYR PSE CY NR 009 CK 26 35 0227 1520 = 5.U TTU 3A4 353 ...	CW	(JPL-HK)
M95	9152	11-2	0935	Thu	i.p. 773 3Ad 357 4AD 446 467 4D6 MSG AGN NR 126 CK 256 35 0211 1615 ...	CW	(JPL-Sib)
MX	3335	22-2	1829	Mon	Beacon V	CW	(PPA-Sib)
MX	3593.8	3-2	1709	Wed	Beacon P, Kaliningrad	CW	(AB)
MX	3595	5-2	2017	Fri	Beacon P, Kaliningrad	CW	(JPL-Sib)
MX	3658	3-2	1707	Wed	Beacon V	CW	(AB)
MX	5153.7	3-2	1709	Wed	Beacon D, Sevastopol	CW	(AB)
MX	5153.8	3-2	1709	Wed	Beacon P, Kaliningrad	CW	(AB)
MX	5153.8	28-2	0718	Sun	Beacon P, Kaliningrad	CW	(AB)
MX	5153.9	3-2	1709	Wed	Beacon S, Sevromorsk	CW	(AB)
MX	5154	3-2	1709	Wed	Beacon C, Moscow	CW	(AB)
MX	5154	27-2	1906	Sat	Defective beacon sending RE	CW	(AB)
MX	5154.4	7-2	1244	Sun	Beacon M, Magadan	CW	(JPL-Sib)
MX	5154.4	18-2	1202	Thu	Beacon M, Magadan	CW	(JPL-Sib)
MX	7508.9	27-2	0722	Sat	Beacon S, Sevromorsk	CW	(PPA)
MX	8497.8	3-2	1708	Wed	Beacon L, St Petersburg	CW	(AB)
MX	10871.7	28-2	0723	Sun	Beacon D, Sevastopol	CW	(AB)
MX	10871.9	28-2	0723	Sun	Beacon S, Sevromorsk	CW	(AB)
MX	10872	28-2	0723	Sun	Beacon C, Moscow	CW	(AB)
MX	13527.7	28-2	0721	Sun	Beacon D, Sevastopol	CW	(AB)
MX	13527.9	28-2	0721	Sun	Beacon S, Sevromorsk	CW	(AB)
MX	13528	28-2	0721	Sun	Beacon C, Moscoe	CW	(AB)
MX	13528.2	28-2	0721	Sun	Beacon F, Vladivostok	CW	(AB)
MX	13528.3	28-2	0721	Sun	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB)
MX	13528.4	28-2	0721	Sun	Beacon M, Magadan	CW	(AB)
MX	16331.7	28-2	0719	Sun	Beacon D, Sevastopol	CW	(AB)
MX	16331.9	28-2	0719	Sun	Beacon S, Sevromorsk	CW	(AB)
MX	16332	28-2	0719	Sun	Beacon C, Moscow	CW	(AB)
MX	20047.7	28-2	0719	Sun	Beacon D, Sevastopol	CW	(AB)
POL	6836	4-2	0800	Thu	0434 00000	FSK 100/625	(AB)
POL	6836	4-2	0805	Thu	0434 00000	FSK 100/625	(AB)
POL	6836	8-2	0800	Mon	0434 00000	FSK 100/625	(AB)

POL	6836	8-2	0805	Mon	0434 00000	FSK 100/625	(AB)
POL	6836	15-2	0800	Mon	0434 88888 88888 65981 70039 94983 ... 04633 72378 64721 88888 88888 00034 00034	FSK 100/625	(AB)
POL	6836	15-2	0805	Mon	0434 88888 88888 65981 70039 94983 ... 04633 72378 64721 88888 88888 00034 00034	FSK 100/625	(AB)
POL	6836	18-2	0800	Thu	0434 88888 88888 65981 70039 94983 ... 04633 72378 64721 88888 88888 00034 00034	FSK 100/625	(AB)
POL	6836	18-2	0805	Thu	0434 88888 88888 65981 70039 94983 ... 04633 72378 64721 88888 88888 00034 00034	FSK 100/625	(AB)
POL	6836	22-2	0800	Mon	0434 00000	FSK 100/625	(AB)
POL	6836	22-2	0805	Mon	0434 00000	FSK 100/625	(AB)
POL	6836	25-2	0800	Thu	0434 00000	FSK 100/625	(AB)
POL	6836	25-2	0805	Thu	0434 00000	FSK 100/625	(AB)
POL	6836	29-2	0800	Mon	0434 00000	FSK 100/625	(AB)
POL	6836	29-2	0805	Mon	0434 00000	FSK 100/625	(AB)
POL	7499	5-2	0900	Fri	0554 00000	FSK 100/625	(AB)
POL	7499	5-2	0905	Fri	0554 00000	FSK 100/625	(AB)
POL	7499	9-2	0900	Tue	0554 88888 88888 14279 78104 72406 ... 63597 11422 23147 88888 88888 00036 00036	FSK 100/625	(AB)
POL	7499	9-2	0905	Tue	0554 88888 88888 14279 78104 72406 ... 63597 11422 23147 88888 88888 00036 00036	FSK 100/625	(AB)
POL	7499	12-2	0900	Fri	0554 88888 88888 14279 78104 72406 ... 63597 11422 23147 88888 88888 00036 00036	FSK 100/625	(AB)
POL	7499	12-2	0905	Fri	0554 88888 88888 14279 78104 72406 ... 63597 11422 23147 88888 88888 00036 00036	FSK 100/625	(AB)
POL	7499	19-2	0900	Fri	0554 00000	FSK 100/625	(AB)
POL	7499	19-2	0905	Fri	0554 00000	FSK 100/625	(AB)
POL	7499	26-2	0900	Fri	0554 00000	FSK 100/625	(AB)
POL	7499	26-2	0905	Fri	0554 00000	FSK 100/625	(AB)
POL	7772	2-2	0630	Tue	0574 00000	FSK 100/625	(AB)
POL	7772	2-2	0635	Tue	0574 00000	FSK 100/625	(AB)
POL	7772	11-2	0630	Thu	0574 88888 88888 57878 98480 10730 ... 13141 22748 38084 88888 88888 00038 00038	FSK 100/625	(AB)
POL	7772	11-2	0635	Thu	0574 88888 88888 57878 98480 10730 ... 13141 22748 38084 88888 88888 00038 00038	FSK 100/625	(AB)
POL	7772	16-2	0630	Tue	0574 00000	FSK 100/625	(AB)
POL	7772	16-2	0635	Tue	0574 00000	FSK 100/625	(AB)
POL	7772	18-2	0630	Thu	0574 00000	FSK 100/625	(AB)
POL	7772	18-2	0635	Thu	0574 00000	FSK 100/625	(AB)
POL	7772	25-2	0630	Thu	0574 00000	FSK 100/625	(AB)
POL	7772	25-2	0635	Thu	0574 00000	FSK 100/625	(AB)
POL	7863	2-2	1150	Tue	0325 00000	FSK 100/625	(AB)

POL	7863	2-2	1155	Tue	0325 00000	FSK 100/625	(AB)
POL	7863	3-2	1150	Wed	0325 00000	FSK 100/625	(AB)
POL	7863	3-2	1155	Wed	0325 00000	FSK 100/625	(AB)
POL	7863	9-2	1150	Tue	0325 00000	FSK 100/625	(AB)
POL	7863	9-2	1155	Tue	0325 00000	FSK 100/625	(AB)
POL	7863	10-2	1150	Wed	0325 00000	FSK 100/625	(AB)
POL	7863	10-2	1155	Wed	0325 00000	FSK 100/625	(AB)
POL	7863	16-2	1150	Tue	0325 88888 88888 60978 51045 30277 ... 91772 17878 07065 88888 88888 00038 00038	FSK 100/625	(AB)
POL	7863	16-2	1155	Tue	0325 88888 88888 60978 51045 30277 ... 91772 17878 07065 88888 88888 00038 00038	FSK 100/625	(AB)
POL	7863	17-2	1150	Wed	0325 88888 88888 60978 51045 30277 ... 91772 17878 07065 88888 88888 00038 00038	FSK 100/625	(AB)
POL	7863	17-2	1155	Wed	0325 88888 88888 60978 51045 30277 ... 91772 17878 07065 88888 88888 00038 00038	FSK 100/625	(AB)
POL	7863	24-2	1150	Wed	0325 00000	FSK 100/625	(AB)
POL	7863	24-2	1155	Wed	0325 00000	FSK 100/625	(AB)
POL	9179	2-2	1610	Tue	0877 00000	FSK 100/625	(AB)
POL	9179	2-2	1615	Tue	0877 00000	FSK 100/625	(AB)
POL	9179	9-2	1610	Tue	0877 88888 88888 72918 21727 68585 ... 35534 04258 85477 88888 88888 00042 00042	FSK 100/625	(AB)
POL	9179	9-2	1615	Tue	0877 88888 88888 72918 21727 68585 ... 35534 04258 85477 88888 88888 00042 00042	FSK 100/625	(AB)
POL	9179	13-2	1610	Sat	0877 88888 88888 72918 21727 68585 ... 35534 04258 85477 88888 88888 00042 00042	FSK 100/625	(AB)
POL	9179	13-2	1615	Sat	0877 88888 88888 72918 21727 68585 ... 35534 04258 85477 88888 88888 00042 00042	FSK 100/625	(AB)
POL	9179	16-2	1610	Tue	0877 00000	FSK 100/625	(AB)
POL	9179	16-2	1615	Tue	0877 00000	FSK 100/625	(AB)
POL	9179	27-2	1610	Sat	0877 00000	FSK 100/625	(AB)
POL	9179	27-2	1615	Sat	0877 00000	FSK 100/625	(AB)
POL	9370	3-2	0845	Wed	0353 88888 88888 53131 47998 60937 ... 55660 83294 50595 88888 88888 00036 00036	FSK 100/625	(AB)
POL	9370	3-2	0850	Wed	0353 88888 88888 53131 47998 60937 ... 55660 83294 50595 88888 88888 00036 00036	FSK 100/625	(AB)
POL	9370	8-2	0845	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	8-2	0850	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	15-2	0845	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	15-2	0850	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	17-2	0845	Wed	3 msgs (see N&O 221) 0353 00000, 0779 44444 58882 22222, 0325 88888 88888 60978 51045 30277 ... 91772 17878 07065 88888 88888 00038 00038	FSK 100/625	(AB)
POL	9370	22-2	0845	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	22-2	0850	Mon	0353 00000	FSK 100/625	(AB)

POL	9370	29-2	0845	Mon	0353 00000	FSK 100/625	(AB)
POL	9370	29-2	0850	Mon	0353 00000	FSK 100/625	(AB)
POL	9968	5-2	0815	Fri	0446 88888 88888 24345 07185 99012 ... 17567 75566 44700 88888 88888 00040 00040	FSK 100/625	(AB)
POL	9968	5-2	0820	Fri	0446 88888 88888 24345 07185 99012 ... 17567 75566 44700 88888 88888 00040 00040	FSK 100/625	(AB)
POL	9968	8-2	0815	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	8-2	0820	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	12-2	0815	Fri	0446 00000	FSK 100/625	(AB)
POL	9968	12-2	0820	Fri	0446 00000	FSK 100/625	(AB)
POL	9968	15-2	0815	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	15-2	0820	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	19-2	0815	Fri	0446 00000	FSK 100/625	(AB)
POL	9968	19-2	0820	Fri	0446 00000	FSK 100/625	(AB)
POL	9968	22-2	0815	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	22-2	0820	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	26-2	0815	Fri	0446 00000	FSK 100/625	(AB)
POL	9968	26-2	0820	Fri	0446 00000	FSK 100/625	(AB)
POL	9968	29-2	0815	Mon	0446 00000	FSK 100/625	(AB)
POL	9968	29-2	0820	Mon	0446 00000	FSK 100/625	(AB)
POL	10359	2-2	0655	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	2-2	0700	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	5-2	0655	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	5-2	0700	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	9-2	0655	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	9-2	0700	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	12-2	0655	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	12-2	0700	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	16-2	0655	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	16-2	0700	Tue	0684 00000	FSK 100/625	(AB)
POL	10359	19-2	0655	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	19-2	0700	Fri	0684 00000	FSK 100/625	(AB)
POL	10359	26-2	0655	Fri	0684 88888 88888 59074 48802 51192 ... 94206 43152 03579 88888 88888 00040 00040	FSK 100/625	(AB)
POL	10359	26-2	0700	Fri	0684 88888 88888 59074 48802 51192 ... 94206 43152 03579 88888 88888 00040 00040	FSK 100/625	(AB)

POL	15915	8-2	1525	Mon	0221 00000	FSK 100/625	(AB)
POL	15915	8-2	1530	Mon	0221 00000	FSK 100/625	(AB)
POL	15915	15-2	1525	Mon	0221 00000	FSK 100/625	(AB)
POL	15915	15-2	1530	Mon	0221 00000	FSK 100/625	(AB)
POL	15915	29-2	1525	Mon	0221 00000	FSK 100/625	(AB)
POL	15915	29-2	1530	Mon	0221 00000	FSK 100/625	(AB)
POL	16388	2-2	0730	Tue	0433 88888 88888 35050 82983 64300 ... 92513 75448 36349 88888 88888 00040 00040	FSK 100/625	(AB)
POL	16388	2-2	0735	Tue	0433 88888 88888 35050 82983 64300 ... 92513 75448 36349 88888 88888 00040 00040	FSK 100/625	(AB)
POL	16388	4-2	0730	Thu	0433 88888 88888 35050 82983 64300 ... 92513 75448 36349 88888 88888 00040 00040	FSK 100/625	(AB)
POL	16388	4-2	0735	Thu	0433 88888 88888 35050 82983 64300 ... 92513 75448 36349 88888 88888 00040 00040	FSK 100/625	(AB)
POL	16388	11-2	0730	Thu	0433 00000	FSK 100/625	(AB)
POL	16388	11-2	0735	Thu	0433 00000	FSK 100/625	(AB)
POL	16388	16-2	0730	Tue	0433 00000	FSK 100/625	(AB)
POL	16388	16-2	0735	Tue	0433 00000	FSK 100/625	(AB)
POL	17531	2-2	1245	Tue	Polish Intel.	FSK 100/625	(AB)
POL	17531	2-2	1250	Tue	Polish Intel.	FSK 100/625	(AB)
POL	17531	10-2	1610	Wed	Polish Intel.	FSK 100/625	(AB)
POL	17531	10-2	1610	Wed	Polish Intel.	FSK 100/625	(AB)
POL	17531	16-2	1245	Tue	0132 00000	FSK 100/625	(AB)
POL	17531	16-2	1250	Tue	0132 00000	FSK 100/625	(AB)
POL	17531	24-2	1245	Wed	Message	FSK 100/625	(AB)
POL	17531	24-2	1250	Wed	Message	FSK 100/625	(AB)
Q26	4243	13-2	1145	Sat	Message //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	17-2	1140	Wed	AHR MSG NR34 140 35 0217 1603 -- 202 017 *26 314 002 773 351 938 353 4 ... //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	18-2	1140	Thu	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	25-2	1145	Thu	Message //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4243	26-2	1144	Fri	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	7553	8-2	0910	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	6-2	0001	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	6-2	1131	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	7-2	0001	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL-Sib)
Q26	8073	7-2	1131	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL-Sib)

Q26	8073	8-2	0001	Mon	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	9-2	1131	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	10-2	0001	Wed	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	13-2	1131	Sat	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	14-2	1130	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	16-2	1131	Tue	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	17-2	1129	Wed	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	18-2	1130	Thu	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	21-2	0002	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL-Sib)
Q26	8073	23-2	1131	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	24-2	1137	Wed	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	25-2	1131	Thu	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	26-2	0002	Fri	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	26-2	1130	Fri	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	27-2	0001	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	27-2	1137	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9053	21-2	2341	Sun	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9053	23-2	1150	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	13-2	1145	Sat	Message //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	17-2	1140	Wed	AHR MSG NR34 140 35 0217 1603 -- 202 017 *26 314 002 773 351 938 353 4 ... //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	18-2	1140	Thu	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	20-2	2343	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	25-2	1145	Thu	Message //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	25-2	2339	Thu	Message	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	26-2	1144	Fri	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	26-2	2341	Fri	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	9054	27-2	1144	Sat	Messages	4+4 QPSK 75/3000 LSB	(JPL-HK)
RADv	1812	4-2	0523	Thu	Tracking (Russian Voice)	USB	(F5JBR)
RADv	2300	6-2	1744	Sat	Tracking (Russian Voice)	USB	(F5JBR)
RADv	3367.5	6-2	1846	Sat	Tracking (Russian Voice)	LSB	(F5JBR)
RADv	4380	7-2	1455	Sun	Tracking (Russian Voice)	USB	(F5JBR)
RADv	4453	24-2	1443	Wed	Tracking (Russian Voice)	USB	(F5JBR)

RADv	5401	7-2	0918	Sun	Tracking (Russian Voice)	USB	(F5JBR)
RAv	5827	11-2	0652	Thu	Voice traffic Tu-95MS Bear H net	USB	(Tom)
RAv	8131	11-2	0711	Thu	Voice traffic Tu-95MS Bear H net	USB	(Tom)
RMv	2783	23-2	0402	Tue	LAMPA-21 clg out stations	USB	(F5JBR)
RMv	3325	26-2	0358	Fri	TANGAT-58 clg PAVLIN-85 SOKOL-51	USB	(F5JBR)
RMv	6258	22-2	0525	Mon	SMIRNO-59 clg out stations	USB	(F5JBR)
RMv	6930	22-2	0810	Mon	VOLTA-54 clg out stations	USB	(F5JBR)
RMv	6990	22-2	0750	Mon	VOLTA-54 clg out stations	USB	(F5JBR)
RMv	6993	26-2	0548	Fri	FOSCOR-51 clg out stations	USB	(F5JBR)
RNv	4944	24-2	0844	Wed	YAVERKA (RHC86) wkg VESTNIK (RMP)	USB	(F5JBR)
RNv	4944	25-2	0626	Thu	KOMUNA (RGX80) wkg VESTNIK (RMP)	USB	(F5JBR)
S06	5736	5-2	2019	Fri	761 0	USB	(HFD)
S06	5736	19-2	2000	Fri	761 761 761 00000	USB	(MPJ)
S06	7812	5-2	1900	Fri	761 0	USB	(HFD)
S06	7812	19-2	1900	Fri	761 761 761 00000	USB	(MPJ/PPA)
S06	8187	17-2	1700	Wed	480 567 42 85415 05660 12561 ... 22126 84886 91515 567 42 00000	USB	(AB)
S06	15614	12-2	0930	Fri	842 906 42 56704 76689 70507 ... 89433 56929 12648 906 42 00000	USB	(AB)
S06s	5250	2-2	0700	Tue	374 981 6 33279 44878 83314 33623 48130 981 6 00000 Sent only 5 groups	USB	(AB)
S06s	5250	16-2	0700	Tue	374 250 6 48992 45648 34061 83314 33623 37319 250 6 00000	USB	(AB)
S06s	5660	2-2	1010	Tue	893 271 5 52401 63919 92699 14600 44248 271 5 00000	USB	(AB)
S06s	5765	11-2	0900	Thu	624 835 7 46647 79302 53516 25616 56039 96813 14199 835 7 00000	USB	(AB)
S06s	5765	18-2	0900	Thu	624 987 5 49294 38064 31724 37324 39316 987 5 00000	USB	(AB)
S06s	6315	4-2	0910	Thu	624 835 7 46647 79302 53516 25616 56069 96813 14199 835 7 00000	USB	(AB)
S06s	6315	11-2	0910	Thu	624 835 7 46647 79302 53516 25616 56039 96813 14199 835 7 00000	USB	(AB)
S06s	6315	18-2	0910	Thu	624 987 5 49294 38064 31724 37324 39316 987 5 00000	USB	(AB)
S06s	6320	2-2	0715	Tue	374 981 6 33279 44878 83314 33623 48130 981 6 00000 Sent only 5 groups	USB	(AB)
S06s	6320	16-2	0700	Tue	374 250 6 48992 45648 34061 83314 33623 37319 250 6 00000	USB	(AB)
S06s	6440	2-2	1000	Tue	893 271 5 52401 63919 92699 14600 44248 271 5 00000	USB	(AB)
S06s	6845	9-2	1500	Tue	537 481 6 88620 58069 61732 74537 57440 10597 481 6 00000	USB	(AB)
S06s	7410	2-2	0730	Tue	427 953 6 46062 68672 97478 39685 30485 96632 953 6 00000	AM	(AB)
S06s	7410	16-2	0730	Tue	427 508 6 46062 68672 97478 39685 30485 96632 508 6 00000	AM	(AB)
S06s	8057	1-2	0830	Mon	371 542 6 93615 84408 42179 52573 39788 36311 542 6 00000	USB	(AB)

S06s	8057	15-2	0830	Mon	371 820 6 33796 13577 74526 46647 97302 53516 820 6 00000	USB	(AB)
S06s	8057	29-2	0830	Mon	371 371 371 00000	USB	(AB)
S06s	8420	8-2	1300	Mon	831 974 5 58936 32738 84354 84061 43245 974 5 00000	USB	(AB)
S06s	8530	1-2	0840	Mon	371 542 6 93615 84408 42179 52573 39788 36311 542 6 00000	USB	(AB)
S06s	8812	4-2	0930	Thu	314 258 6 87183 32211 85443 34947 83434 49930 258 6 00000	USB	(AB)
S06s	8812	11-2	0930	Thu	314 258 6 87183 32211 85443 34997 83434 49930 258 6 00000	USB	(AB)
S06s	8812	25-2	0930	Thu	314 298 5 46062 68672 94478 39685 30485 298 5 00000	USB	(AB)
S06s	9170	2-2	1510	Tue	537 481 6 88620 58069 61732 74637 57440 10597 481 6 00000	USB	(AB)
S06s	9170	9-2	1510	Tue	537 481 6 88620 58069 61732 74537 57440 10597 481 6 00000	USB	(AB)
S06s	9170	16-2	1510	Tue	537 201 6 38034 37823 38230 48235 38702 44520 201 6 00000	USB	(AB)
S06s	9262	3-2	0830	Wed	471 539 6 77620 58069 61732 74537 57440 10597 539 6 00000	USB	(AB)
S06s	9540	4-2	0940	Thu	314 258 6 87183 32211 85443 34947 83434 49930 258 6 00000	USB	(AB)
S06s	9540	11-2	0940	Thu	314 258 6 87183 32211 85443 34997 83434 49930 258 6 00000	USB	(AB)
S06s	9540	25-2	0940	Thu	314 298 5 46062 68672 94478 39685 30485 298 5 00000	USB	(AB)
S06s	10635	8-2	1310	Mon	831 974 5 58936 32738 84354 84061 43245 974 5 00000	USB	(AB)
S06s	10635	29-2	1310	Mon	831 831 831 00000	USB	(AB)
S06s	10920	11-2	1210	Thu	425 830 6 33365 47183 81326 36388 94323 45547 830 6 00000	USB	(AB)
S06s	10920	18-2	1210	Thu	425 873 6 21767 53672 11834 81022 36903 41412 873 6 00000	USB	(AB)
S06s	11532	2-2	0740	Tue	427 953 6 46062 68672 97478 39685 30485 96632 953 6 00000	AM	(AB)
S06s	11532	9-2	0740	Tue	427 953 6 46062 68672 97478 39685 30485 96632 953 6 00000	USB	(AB)
S06s	11532	16-2	0740	Tue	427 508 6 46062 68672 97478 39685 30485 96632 508 6 00000	AM	(AB)
S06s	11780	19-2	0930	Fri	516 298 7 77620 58069 61732 74537 57440 10597 23521 298 7 00000	USB	(AB)
S06s	11830	17-2	0840	Wed	745 912 6 22536 88280 84116 53718 78927 34974 912 6 00000	USB	(AB)
S06s	11945	2-2	0800	Tue	352 917 6 21767 53672 11834 81022 36903 41412 917 6 00000	USB	(AB)
S06s	11945	16-2	0800	Tue	352 847 6 52401 63919 92699 14600 74248 48754 847 6 00000	USB	(AB)
S06s	12155	11-2	1200	Thu	425 830 6 33365 47183 81326 36388 94323 45547 830 6 00000	USB	(AB)
S06s	12155	18-2	1200	Thu	425 873 6 21767 53672 11834 81022 36903 41412 873 6 00000	USB	(AB)
S06s	12365	10-2	1000	Wed	729 516 8 48992 45648 34061 83314 33623 37319 37717 48130 516 8 00000	USB	(AB)
S06s	12570	12-2	0940	Fri	416 928 7 33796 13577 74526 46647 79302 53516 25616 928 7 00000	AM	(AB)
S06s	12570	19-2	0940	Fri	516 298 7 77620 58069 61732 74537 57440 10597 23521 298 7 00000	USB	(AB)
S06s	12830	1-2	0910	Mon	872 964 5 31705 91596 47308 92107 40398 964 5 00000	USB	(AB)
S06s	12830	8-2	0840	Mon	872 964 5 31704 91596 47308 92107 40398 964 5 00000	USB	(AB)

S06s	12952	4-2	0900	Thu	167 250 8 82707 06123 22536 88280 84116 53718 78927 34694 250 8 00000	AM	(AB)
S06s	12952	11-2	0900	Thu	167 250 8 82707 06123 22536 88280 84116 53718 78927 34694 250 8 00000	AM	(AB)
S06s	12952	18-2	0900	Thu	167 498 5 37947 39947 31323 31829 47694 498 5 00000	AM	(AB)
S06s	13195	2-2	0810	Tue	352 917 6 21767 53672 11834 81022 36903 41412 917 6 00000	USB	(AB)
S06s	13470	14-2	0630	Sun	524 830 6 41077 86907 84183 30025 37286 48992 830 6 00000	USB	(AB)
S06s	13565	4-2	0910	Thu	167 250 8 82707 06123 22536 88280 84116 53718 78927 34694 250 8 00000	AM	(AB)
S06s	13565	11-2	0910	Thu	16 pause then at 0911z 167 250 8 82707 06123 22536 88280 84116 53718 78927 34694 250 8 00000	AM	(AB)
S06s	13565	18-2	0910	Thu	167 498 5 37947 39947 31323 31829 47694 498 5 00000	AM	(AB)
S06s	13565	25-2	0910	Thu	167 498 5 37947 39947 31323 31829 47694 498 5 00000	AM	(AB)
S06s	14675	1-2	0900	Mon	872 964 5 31705 91596 47308 92107 40398 964 5 00000	USB	(AB)
S06s	14675	22-2	0900	Mon	872 451 6 80534 11160 43494 37638 16070 48834 451 6 00000	USB	(AB)
S06s	16515	14-2	0640	Sun	524 830 6 41077 86907 84183 30025 37286 48992 830 6 00000	USB	(AB)
S06s	16515	28-2	0640	Sun	524 801 unreadable	USB	(AB)
S11	5815	19-2	1955	Fri	371/00	USB	(MPJ)
S11a	5815	12-2	1955	Fri	371/00	USB	(MPJ)
S11a	5815	24-2	1955	Wed	371/00	USB	(MPJ)
S11a	5815	26-2	1955	Fri	371/00	USB	(MPJ)
S11a	7504	2-2	0915	Tue	484/00	USB	(AB)
S11a	7504	5-2	0915	Fri	484/00	USB	(AB)
S11a	7504	9-2	0915	Tue	481/32 Vnimanaye 14279 78104 72406 ... 63597 11422 23147 Vnimanie, rpt msg, konets	USB	(AB)
S11a	7504	12-2	0915	Fri	481/32 Vnimanaye 14279 78104 72406 ... 63597 11422 23147 Vnimanie, rpt msg, konets	USB	(AB)
S11a	7504	16-2	0915	Tue	484/00	USB	(AB)
S11a	7504	23-2	0915	Tue	484/00	USB	(AB)
S11a	9200	2-2	1625	Tue	831/00	USB	(AB/MPJ/H FD)
S11a	9200	13-2	1625	Sat	839/38 Vnimanaye 72918 21727 68585 ... 35534 04258 85477 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	9200	20-2	1625	Sat	831/00	USB	(MPJ)
S11a	9200	27-2	1625	Sat	831/00	USB	(AB)
S11a	9610	5-2	1023	Fri	Msg i.p.	USB	(AB)
S11a	9610	19-2	1020	Fri	426/00	USB	(AB)
S11a	12530	1-2	1015	Mon	475/00	USB	(AB)
S11a	12530	22-2	1015	Mon	475/00	USB	(AB)
S11a	12530	25-2	1015	Thu	475/00	USB	(AB)

S11a	12530	29-2	1015	Mon	475/00	USB	(AB)
S11a	19099	8-2	0715	Mon	382/00	USB	(AB)
S28	4625	1-2	0922	Mon	ZhUOZ 52631 SIRYeNNY 01588560	USB	(Priyom)
S28	4625	1-2	0925	Mon	ZhUOZ 66654 KIRASIR 20491013	USB	(Priyom)
S28	4625	1-2	1259	Mon	ZhUOZ 76102 VIRALA 32710473	USB	(Priyom)
S28	4625	1-2	1409	Mon	ZhUOZ 10253 LIPUNYeC 57087747	USB	(Priyom)
S28	4625	2-2	0659	Tue	ZhUOZ ANTROPOLOG 1230 Female voice in the background	USB	(Priyom)
S28	4625	3-2	1659	Wed	ZhUOZ BARKOBAS 3362	USB	(Priyom)
S28	4625	3-2	1716	Wed	Buzzer channel marker //4625 kHz	USB	(AB)
S28	4625	4-2	0601	Thu	ZhUOZ BLINOLOR 4188	USB	(Priyom)
S28	4625	8-2	0757	Mon	ZhUOZ 65801 YeDINYeNIYe 75855607	USB	(Priyom)
S28	4625	8-2	0832	Mon	ZhUOZ 80003 TYeVYeRON 78876840	USB	(Priyom)
S28	4625	8-2	0930	Mon	ZhUOZ 49674 ShiNNYJ 80354167	USB	(Priyom)
S28	4625	10-2	0904	Wed	ZhUOZ radio check 43211334	USB	(Priyom)
S28	4625	10-2	0915	Wed	ZhUOZ 09218 MOTOROLLYeR 57944873	USB	(Priyom)
S28	4625	10-2	1214	Wed	ZhUOZ 52448 VAKUOL' 76146463	USB	(Priyom)
S28	4625	11-2	0352	Thu	ZhUOZ 75836 ARYeNA 54614239 female voice on background	USB	(Priyom)
S28	4625	11-2	0407	Thu	ZhUOZ 44473 RAZDYeLYeN'Ye 33975092 error in second read (sboj)	USB	(Priyom)
S28	4625	11-2	0431	Thu	ZhUOZ 65101 VARIKOZNYJ 76729016	USB	(Priyom)
S28	4625	11-2	1041	Thu	ZhUOZ 77833 PROTOChNYJ 62273999	USB	(Priyom)
S28	4625	15-2	0747	Mon	ZhUOZ 20943 DAL'NOST' 63732890 Female voice on background	USB	(Priyom)
S28	4625	15-2	0819	Mon	ZhUOZ 41355 VASKOPUL 96890875	USB	(Priyom)
S28	4625	15-2	0930	Mon	ZhUOZ 65699 ZAHozhIJ 90332344	USB	(Priyom)
S28	4625	15-2	0937	Mon	ZhUOZ 40840 KRAH 83460548	USB	(Priyom)
S28	4625	17-2	1529	Wed	ZhUOZ KLINOPLoT 2068	USB	(Priyom)
S28	4625	17-2	1530	Wed	ZhUOZ KLINOPLoT 2068 The same message is read to another network with urgency category "Vozduh".	USB	(Priyom)
S28	4625	17-2	1532	Wed	ZhUOZ KORYaVYJ 4900	USB	(Priyom)
S28	4625	18-2	0559	Thu	ZhUOZ KLOPODOZh 1359	USB	(Priyom)
S28	4625	18-2	1005	Thu	ZhUOZ 99292 V'YuChNYJ 13620115	USB	(Priyom)
S28	4625	18-2	1342	Thu	Multiple test counts	USB	(Priyom)
S28	4625	29-2	0837	Mon	ZhUOZ 03289 IZVILINA 15451653	USB	(Priyom)
S28	4625	29-2	1258	Mon	ZhUOZ 30223 GRUZhT' 90518749	USB	(Priyom)

S28	4625	29-2	1305	Mon	ZhUOZ 23420 KORRYeLYaTOR 30893316	USB	(Priyom)
S28	6998	3-2	1716	Wed	Buzzer channel marker //4625 kHz	USB	(AB)
S28	6998	29-2	0912	Mon	ZhUOZ 14386 BYeLORYeK 00515373 Female voice on background, very low quality voice	USB	(Priyom)
S30	3756	1-2	0350	Mon	ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ	USB	(Priyom)
S30	3756	1-2	1344	Mon	KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27	USB	(Priyom)
S30	3756	1-2	1418	Mon	8S1Shch 43756 NAPADAYuShchIJ 38285795	USB	(Priyom)
S30	3756	1-2	1758	Mon	V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchhJ 27Shch' N1DU 53OB 78MV	USB	(Priyom)
S30	3756	2-2	0410	Tue	DEAY JH'J 12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V	USB	(Priyom)
S30	3756	2-2	1833	Tue	ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3	USB	(Priyom)
S30	3756	3-2	0402	Wed	AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 error in reading	USB	(Priyom)
S30	3756	3-2	0431	Wed	8S1Shch VZOROGRAF 2445 BANTORAJ 6738	USB	(Priyom)
S30	3756	3-2	1714	Wed	8S1Shch ZhLOBOKROT 0871	USB	(Priyom)
S30	3756	3-2	1716	Wed	Pip channel marker	USB	(AB)
S30	3756	3-2	1839	Wed	61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM	USB	(Priyom)
S30	3756	4-2	0318	Thu	8S1Shch L'YeZhOLYeYeR 4279	USB	(Priyom)
S30	3756	4-2	0447	Thu	6I2Zh 8CSchhJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ	USB	(Priyom)
S30	3756	4-2	1453	Thu	8S1Shch 08268 11339 17932 MYL'NICA 93408629	USB	(Priyom)
S30	3756	4-2	1713	Thu	8S1Shch MYeChOTRYeP 9629	USB	(Priyom)
S30	3756	4-2	1829	Thu	TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N	USB	(Priyom)
S30	3756	5-2	0553	Fri	37CN MUDR 7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C	USB	(Priyom)
S30	3756	6-2	0519	Sat	NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchhJ 27Shch' N1DU	USB	(Priyom)
S30	3756	7-2	1434	Sun	YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ	USB	(Priyom)
S30	3756	8-2	1724	Mon	OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV	USB	(Priyom)
S30	3756	8-2	1844	Mon	12CI 79AJ ShchT3O CIHS Z7PM S7ZhG Z'1B CI9V ZhSK4 HZ5T	USB	(Priyom)
S30	3756	10-2	0338	Wed	81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL BO6C	USB	(Priyom)
S30	3756	11-2	0343	Thu	8S1Shch 68456 GRACONYeRV 14612221	USB	(Priyom)
S30	3756	11-2	0403	Thu	8S1Shch 42682 MINOTAVR 71729057	USB	(Priyom)
S30	3756	11-2	0410	Thu	8S1Shch 00679 GAL'VANYeR 48689135	USB	(Priyom)
S30	3756	11-2	0421	Thu	8S1Shch 84344 BALKa 84677299	USB	(Priyom)
S30	3756	11-2	1759	Thu	7VNShch Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA	USB	(Priyom)
S30	3756	12-2	0414	Fri	ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ	USB	(Priyom)
S30	3756	12-2	1826	Fri	V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchhJ 27Shch' N1DU 53OB 78MV	USB	(Priyom)

S30	3756	13-2	0432	Sat	DEAY JH'J 12CI 79AJ Shcht30 CIHS Z7PM S7ZhG Z'1B CI9V	USB	(Priyom)
S30	3756	14-2	0500	Sun	VTH3 AGDT 'U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS'	USB	(Priyom)
S30	3756	14-2	1748	Sun	HCLF 61HZh ZBIL L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P	USB	(Priyom)
S30	3756	15-2	0449	Mon	8VM 6I2Zh 8CSchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI	USB	(Priyom)
S30	3756	15-2	1814	Mon	8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E	USB	(Priyom)
S30	3756	16-2	0445	Tue	F61N 37CN MUDR 7VNSchh Zh7NZh YMA5 VTH3 AGDT 'U1B OSOG	USB	(Priyom)
S30	3756	16-2	1807	Tue	BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR	USB	(Priyom)
S30	3756	16-2	1915	Tue	M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5	USB	(Priyom)
S30	3756	17-2	0451	Wed	V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ 27Shch'	USB	(Priyom)
S30	3756	17-2	1651	Wed	HZ5T 5FSSchh 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP	USB	(Priyom)
S30	3756	17-2	1901	Wed	TZLM FY5E F61N 37CN MUDR 7VNSchh Zh7NZh YMA5 VTH3 AGDT	USB	(Priyom)
S30	3756	18-2	0449	Thu	'U1B OSOG BO6C F56Shch ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV	USB	(Priyom)
S30	3756	18-2	1719	Thu	L7O5 V'Z' NLCE LI27 V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CSchJ	USB	(Priyom)
S30	3756	19-2	0534	Fri	27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ Shcht30 CIHS	USB	(Priyom)
S30	3756	24-2	1702	Wed	BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR	USB	(Priyom)
S30	3756	25-2	0421	Thu	8S1Shch 60829 MARCIPAN 03490375	USB	(Priyom)
S30	3756	25-2	0431	Thu	8S1Shch 13510 KADROSOYuz 65230351 MIMOBUYaN 35915505	USB	(Priyom)
S30	3756	25-2	0510	Thu	M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh ZBIL L7O5	USB	(Priyom)
S30	3756	25-2	1518	Thu	8S1Shch 06990 KARABAH 20255348	USB	(Priyom)
S30	3756	25-2	1524	Thu	8S1Shch 79897 DROSSYeL' 29887830	USB	(Priyom)
S30	3756	25-2	1822	Thu	HZ5T 5FSSchh 8MUO TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP	USB	(Priyom)
S30	3756	26-2	2015	Fri	42BV 81BR M7KS PMV5 L'GJ KZI' TShchShchS VKY1 HCLF 61HZh	USB	(Priyom)
S30	3756	26-2	2259	Fri	Y8VM 40744 IZYuMOZONT 53141645	USB	(Priyom)
S30	5448	1-2	1336	Mon	8S1Shch 40702 KOMIZM 64904157	USB	(Priyom)
S32	3828	1-2	1653	Mon	NYeVKA-26 DZhIGIT-46 SLIVA-94 OTPOR-89 ShULER-60 STAZher-29 ZASLONKA-27 STOROZh-62	USB	(Priyom)
S32	3828	3-2	0436	Wed	AL'FA-45 MOROSHKA 5775 BASKOHVAT 5748 with S30 in the background	USB	(Priyom)
S32	3828	3-2	1716	Wed	Squeaky Wheel channel marker	USB	(AB)
S32	3828	3-2	1718	Wed	SLIVA-94 OTPOR-89 ShULER-60 STAZher-29 ZASLONKA-27 STOROZh-62	USB	(Priyom)
S32	3828	3-2	1724	Wed	AL'FA-45 MYeHOBRYaK 4778	USB	(Priyom)
S32	3828	4-2	0304	Thu	AL'FA-45 KRITOSMYV 0448	USB	(Priyom)
S32	3828	4-2	1540	Thu	SLIVA-94 OTPOR-89 ShULER-60 STAZher-29 ZASLONKA-27 STOROZh-62	USB	(Priyom)
S32	3828	4-2	1716	Thu	AL'FA-45 ARAVITYaNKA 7198	USB	(Priyom)

S32	3828	7-2	1557	Sun	NYeVKA-26 SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62	USB	(Priyom)
S32	3828	7-2	1723	Sun	BIZON-64 RYeZINA-38 KOVBOJ-39 STUPA-32 KARTA-11 FONTAN-34 RUZh'E-26 with S30 in the background	USB	(Priyom)
S32	3828	8-2	0254	Mon	DUBLYoR-68 STOROZh-62 ShULER-60 ZASLONKA-27 KOVBOJ-39 DZhIGIT-46 with S30 in the background	USB	(Priyom)
S32	3828	8-2	0420	Mon	KOVBOJ-39 SLIVA-94 OTPOR-89 STAZhER-29 NYeVKA-26 YaHTA-94 UTYoS-94 with S30 in the background	USB	(Priyom)
S32	3828	8-2	1436	Mon	RUZh'E-26 PYeSOChNYJ-21 LANDYSh-74 PYeNZ-07 KURGAN-40 BIZON-64	USB	(Priyom)
S32	3828	9-2	1800	Tue	KOVBOJ-39 SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62	USB	(Priyom)
S32	3828	9-2	1823	Tue	DUBLYoR-68 KOVBOJ-39 STAZhER-29 ZASLONKA-27	USB	(Priyom)
S32	3828	10-2	1836	Wed	NYeVKA-26 YaHTA-94 BIZON-64 PYeSOChNYJ-21 LANDYSh-74 DUBLYoR-68 PYeNZ-07 KURGAN-40. S30 in the nackground	USB	(Priyom)
S32	3828	11-2	0348	Thu	AL'FA-45 26728 AFONIYa 35565465	USB	(Priyom)
S32	3828	11-2	0408	Thu	AL'FA-45 85076 KARTOShKA 64654865. S30 in the background	USB	(Priyom)
S32	3828	11-2	0411	Thu	AL'FA-45 36612 KISYeLYeK 13312545. S30 in the background	USB	(Priyom)
S32	3828	11-2	0417	Thu	AL'FA-45 90350 KORTODYeK 51718797	USB	(Priyom)
S32	3828	11-2	0426	Thu	AL'FA-45 57611 GASHYeNYJ 01139772	USB	(Priyom)
S32	3828	11-2	1648	Thu	AL'FA-45 65140 VYeSTOVOYaZh 58273287. S30 in the background	USB	(Priyom)
S32	3828	11-2	1818	Thu	NYeVKA-26 SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62	USB	(Priyom)
S32	3828	12-2	1931	Fri	BIZON-64 KURGAN-40 RYeZINA-38 KOVBOJ-39	USB	(Priyom)
S32	3828	23-2	1845	Tue	NYeVKA-26 YaHTA-94 UTYoS-94 ALEUT-09 ROSA-64 DZhIGIT-46	USB	(Priyom)
S32	3828	24-2	1718	Wed	SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62	USB	(Priyom)
S32	3828	25-2	0425	Thu	AL'FA-45 15258 VTUZ 00215772 (S30 in the background)	USB	(Priyom)
S32	3828	25-2	0437	Thu	AL'FA-45 23351 OBLIGATNYJ 22162518 (S30 in the background)	USB	(Priyom)
S32	3828	25-2	0439	Thu	AL'FA-45 49760 LYeZhaN'Ye 21484418 (S30 in the background)	USB	(Priyom)
S32	3828	25-2	1526	Thu	AL'FA-45 00281 AKTONYeGR 35461421 (S30 in the background)	USB	(Priyom)
S32	3828	25-2	1533	Thu	AL'FA-45 77697 LORDOPONG 64215874	USB	(Priyom)
S32	3828	25-2	1555	Thu	NYeVKA-26 UTYoS-94 ROSA-64 DZhIGIT-46 BIZON-64 PYeSOChNYJ-21 LANDYSh-74 DUBLYoR-68 PYeNZ-07 KURGAN-40 (S30 in the background)	USB	(Priyom)
S32	3828	26-2	1733	Fri	SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62	USB	(Priyom)
S32	3828	27-2	1648	Sat	BIZON-64 PYeSOChNYJ-21 LANDYSh-74 DUBLYoR-68 PYeNZ-07 KURGAN-40 RYeZINA-38 KOVBOJ-39 STUPA-32 KARTA-11 FONTAN-34 RUZh'E-26	USB	(Priyom)
S32	3828	29-2	1924	Mon	BIZON-64 PYeSOChNYJ-21 LANDYSh-74 DUBLYoR-68 PYeNZ-07 KURGAN-40 RYeZINA-38 KOVBOJ-39 STUPA-32 KARTA-11 FONTAN-34 RUZh'E-26 SLIVA-94 OTPOR-89 ShULER-60 STAZhER-29 ZASLONKA-27 STOROZh-62 (S30 in the background)	USB	(Priyom)
S4525	4524	3-2	1716	Wed	Channel marker (dash)	USB	(AB)
S5292	5292	2-2	0738	Tue	TRYeL'-31 97603 INICIATIVA 26241926	USB	(Priyom)
S5292	5292	2-2	1348	Tue	VIZIR-21 02382 KURSOVOJ 27459273 Last O is missed in first read	USB	(Priyom)
S5292	5292	3-2	0829	Wed	BOYeC-43 34765 NYeZNAYuShchIJ 42248369	USB	(Priyom)
S5292	5292	3-2	0838	Wed	BARZHA-08 76893 YaChMYeN' 53650957	USB	(Priyom)

S5292	5292	8-2	0937	Mon	SYeKRYeT-39 46592 BALYeJKA 52689690	USB	(Priyom)
S5292	5292	8-2	1332	Mon	RYeGATA-75 29272 NYeSKUChNYJ 52689643 count before the signal	USB	(Priyom)
S5292	5292	11-2	0838	Thu	RYeGATA-75 28470 EPIGRAMMA 14359542	USB	(Priyom)
S5292	5292	14-2	1421	Sun	Channel marker D	USB	(JPL-Sib)
S5292	5292	17-2	0907	Wed	BARZHA-08 84999 FAVORIT 63220952	USB	(Priyom)
S5292	5292	17-2	1227	Wed	BOYeC-43 35482 POLOZhYeNIYe 36328589	USB	(Priyom)
S5292	5292	19-2	1632	Fri	Channel marker D	USB	(SW2)
UM02	10470	10-2	0129	Wed	VVV CQ DE YRM QSV K 4OI 4OI 4OI QSV K 4OI DE 4OI ROZ ROZ ZNN VA	CW	(JPL-Sib)
UM02	10470	12-2	0130	Fri	VVV CQ DE YRM QSV K. VVV CQ DE YRM ZAN ZAN VA I	CW	(JPL-Sib)
UM02	10470	15-2	0132	Mon	VVV CQ DE YRM. QSV K. KLF. DE. KLF VVV KLF KLF	CW	(JPL-Sib)
UM02	10470	18-2	0129	Thu	VVV CQ DE YRM QSV K. QSV K. XRJ KLF ZNN VA XRJ ZNN VA DE HOI	CW	(JPL-Sib)
UM02	10470	19-2	0131	Fri	VVV CQ DE YRM QSV K. XRJ XRJ XRJ VVV CQ DE YRM QSV ZAN ZAN VA I VVV ROZ ROZ	CW	(JPL-Sib)
UM02	10470	26-2	0130	Fri	VV ROZ ROZ VVV CQ DE YRM QSV K KLF KLF R ZNN VA I VOI XRJ ZNN VA I	CW	(JPL-Sib)
UM10	3531	5-2	1720	Fri	10-mins net: JZZN //4310 kHz. New Callsign & frequency	CW	(JPL-Sib)
UM10	3531	9-2	1613	Tue	10-mins net: JZZN //4310 kHz	CW	(JPL-Sib)
UM10	3531	12-2	1743	Fri	10-mins net: JZZN //4310 kHz	CW	(JPL-Sib)
UM10	3531	16-2	1818	Tue	10-mins net: JZZN //4310 kHz	CW	(JPL-Sib)
UM10	3531	16-2	2249	Tue	10-mins net: JZZN //4310 kHz	CW	(JPL-Sib)
UM10	3975	16-2	1810	Tue	10-mins net: VI4T	CW	(JPL-Sib)
UM10	4310	5-2	1720	Fri	10-mins net: JZZN //3531 kHz. New Callsign & frequency	CW	(JPL-Sib)
UM10	4310	9-2	1613	Tue	10-mins net: JZZN //3531 kHz	CW	(JPL-Sib)
UM10	4310	11-2	1449	Thu	10-mins net:	CW	(JPL-Sib)
UM10	4310	12-2	1743	Fri	10-mins net: JZZN //3531 kHz	CW	(JPL-Sib)
UM10	4310	15-2	2108	Mon	10-mins net: JZZN	CW	(JPL-Sib)
UM10	4310	16-2	1818	Tue	10-mins net: JZZN //3531 kHz	CW	(JPL-Sib)
UM10	4310	16-2	2249	Tue	10-mins net: JZZN //3531 kHz	CW	(JPL-Sib)
UM10	4310	24-2	2011	Wed	10-mins net: JZZN	CW	(JPL-Sib)
V02a	7554	11-2	2006	Thu	V02a transmission instead of M08a	AM	(qsr711/DS ch)
V07	13968	7-2	0140	Sun	329 329 329 1 ...	USB	(Dan)
V07	13968	21-2	0140	Sun	329 1 133 67 49307 09414 83523 ... 33533 83799 37783 000 000	USB	(Dan)
V07	13968	21-2	0140	Sun	329 1 via GT Mojave	USB	(HFD)
V07	16268	7-2	0120	Sun	329 329 329 1 ...	USB	(Dan)

V07	16268	14-2	0120	Sun	329 329 329 000	USB	(Dan)
V07	16268	21-2	0120	Sun	329 1 133 67 49307 09414 83523 ... 33533 83799 37783 000 000	USB	(Dan)
V07	18368	7-2	0100	Sun	329 329 329 1 ...	USB	(Dan)
V07	18368	14-2	0100	Sun	329 329 329 000	USB	(Dan)
V07	18368	21-2	0100	Sun	329 1 133 67 49307 09414 83523 ... 33533 83799 37783 000 000	USB	(Dan)
V07	18368	21-2	0100	Sun	329 1 133 67 49307 via GT M	USB	(HFD)
V07	18368	21-2	0100	Sun	329 1 via GT Mojave	USB	(HFD)
V13	7502	1-2	1200	Mon	New Star #4	AM	(AB-HK)
V13	7502	1-2	1300	Mon	New Star #4	AM	(AB-HK)
V13	7502	2-2	1200	Tue	New Star #4	AM	(AB-HK)
V13	7502	2-2	1300	Tue	New Star #4	AM	(AB-HK)
V13	7502	3-2	1200	Wed	New Star #4	AM	(AB-HK)
V13	7502	4-2	1200	Thu	New Star #4	AM	(AB-HK)
V13	7502	4-2	1300	Thu	New Star #4	AM	(AB-HK)
V13	7502	6-2	1300	Sat	New Star #4	AM	(AB-HK)
V13	7502	15-2	1300	Mon	New Star #4	AM	(AB-HK)
V13	7502	16-2	1200	Tue	New Star #4	AM	(AB-HK)
V13	7502	16-2	1300	Tue	New Star #4	AM	(AB-HK)
V13	7502	17-2	1300	Wed	New Star #4	AM	(AB-HK)
V13	7502	19-2	1300	Fri	New Star #4	AM	(AB-HK)
V13	7502	26-2	1300	Fri	New Star #4	AM	(VH)
V13	7502	27-2	1200	Sat	New Star #4	AM	(AB-HK)
V13	7502	27-2	1300	Sat	New Star #4	AM	(AB-HK)
V13	9255	2-2	0602	Tue	New Star #4 i.p.	AM	(AB-HK)
V13	9255	25-2	0600	Thu	New Star #4 i.p.	AM	(AB-HK)
V13	9522	1-2	0600	Mon	New Star #4	USB	(AB-HK)
V13	9522	4-2	0600	Thu	New Star #4	USB	(AB-HK)
V13	9522	13-2	0600	Sat	New Star #4	USB	(AB-HK)
V13	9522	15-2	0600	Mon	New Star #4	USB	(AB-HK)
V13	9522	16-2	0618	Tue	New Star #4 i.p.	USB	(AB-HK)
V13	9522	18-2	0600	Thu	New Star #4	USB	(AB-HK)
V13	9522	26-2	0600	Fri	New Star #4	USB	(AB-HK)

V13	9522	27-2	0600	Sat	New Star #4	USB	(AB-HK)
V13	9522	28-2	0500	Sun	New Star #4	USB	(AB-HK)
V13	9522	28-2	0600	Sun	New Star #4	USB	(AB-HK)
V13	9522	29-2	0600	Mon	New Star #4	USB	(AB-HK)
V13	15250	2-2	0800	Tue	New Star #3	AM	(AB-HK)
V13	15250	5-2	0700	Fri	New Star #3	AM	(AB-HK)
V13	15250	5-2	0811	Fri	New Star #3 i.p.	AM	(AB-HK)
V13	15250	6-2	0800	Sat	New Star #3	AM	(AB-HK)
V13	15250	7-2	0800	Sun	New Star #3	AM	(AB-HK)
V13	15250	13-2	0800	Sat	New Star #3	AM	(AB-HK)
V13	15250	14-2	0700	Sun	New Star #3	AM	(AB-HK)
V13	15250	14-2	0800	Sun	New Star #3	AM	(AB-HK)
V13	15250	15-2	0700	Mon	New Star #3	AM	(AB-HK)
V13	15250	15-2	0800	Mon	New Star #3	AM	(AB-HK)
V13	15250	16-2	0700	Tue	New Star #3	AM	(AB-HK)
V13	15250	16-2	0800	Tue	New Star #3	AM	(AB-HK)
V13	15250	17-2	0700	Wed	New Star #3	AM	(AB-HK)
V13	15250	17-2	0800	Wed	New Star #3	AM	(AB-HK)
V13	15250	20-2	0700	Sat	New Star #3	AM	(AB-HK)
V13	15250	20-2	0800	Sat	New Star #3	AM	(AB-HK)
V13	15250	22-2	0700	Mon	New Star #3	AM	(AB-HK)
V13	15250	22-2	0800	Mon	New Star #3	AM	(AB-HK)
V13	15250	22-2	0800	Mon	New Star #3	AM	(AB-HK)
V13	15250	24-2	0700	Wed	New Star #3	AM	(AB-HK)
V13	15250	27-2	0700	Sat	New Star #3	AM	(AB-HK)
V13	15250	28-2	0700	Sun	New Star #3	AM	(AB-HK)
V13	15388	2-2	0300	Tue	New Star #1	AM	(AB-HK)
V24	4900	21-2	1500	Sun	intro music Korean pop, YL, KK, 5f	AM	(Token)
V24	5290	17-2	1430	Wed	intro music Korean pop, YL, KK, 5f	AM	(Token)
V24	6215	15-2	1500	Mon	intro music Korean pop, YL, KK, 5f	AM	(Token)
V24	6215	19-2	1500	Fri	intro music Korean pop, YL, KK, 5f	AM	(Token)
V24	6215	20-2	1500	Sat	intro music Korean pop, YL, KK, 5f	AM	(Token)

V24	6310	18-2	1400	Thu	intro music Korean pop, YL, KK, 5f	AM	(Token)
V24	6310	20-2	1400	Sat	intro music Korean pop, YL, KK, 5f	AM	(Token)
V24	6310	21-2	1400	Sun	intro music Korean pop, YL, KK, 5f	AM	(Token)
V26	4243	7-2	1226	Sun	Female operator. Messages	USB	(JPL-Sib)
V26	4243	9-2	1158	Tue	Messages. Female operator //9054 kHz	USB	(JPL-HK)
V26	4243	12-2	1205	Fri	Message. Male operator //9054 kHz	USB	(JPL-HK)
V26	4243	14-2	1209	Sun	Switched to voice. Messages. Female operator //9054 kHz	CW	(JPL-HK)
V26	4243	16-2	1138	Tue	Message //9054 kHz	USB	(JPL-Sib)
V26	4243	16-2	1148	Tue	Ends message //9054 kHz	USB	(JPL-HK)
V26	4243	19-2	1138	Fri	Message. Female operator //9054 kHz	USB	(JPL-HK)
V26	4243	22-2	1257	Mon	i.p. //9054 kHz	USB	(JPL-HK)
V26	4243	25-2	1212	Thu	Message in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	4243	25-2	1212	Thu	Message in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	4243	26-2	1203	Fri	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	4243	26-2	1203	Fri	Message in Chinese. Female operator //9054 kHz	USB	(JPL-HK)
V26	8073	6-2	0001	Sat	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	6-2	1130	Sat	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	7-2	1130	Sun	Voice callup. Male operator	USB	(JPL-Sib)
V26	8073	7-2	1200	Sun	Switches from M95 to V26. Male operator. Messages	USB	(JPL-Sib)
V26	8073	8-2	0001	Mon	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	9-2	1130	Tue	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	12-2	0021	Fri	Message. Male operator	USB	(JPL-HK)
V26	8073	13-2	1130	Sat	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	14-2	1128	Sun	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	15-2	0015	Mon	XSV85 voice message	USB	(JPL-Sib)
V26	8073	15-2	1219	Mon	Message. Male operator	USB	(JPL-Sib)
V26	8073	17-2	1129	Wed	Voice callup. Female operator	USB	(JPL-HK)
V26	8073	20-2	0022	Sat	Messages. Male operator	USB	(JPL-HK)
V26	8073	21-2	0001	Sun	Voice callup. Male operator	USB	(JPL-HK)
V26	8073	23-2	1130	Tue	Voice callup. Female operator	USB	(JPL-HK)
V26	8073	25-2	1130	Thu	Voice callup. Female operator	USB	(JPL-HK)
V26	8073	26-2	0001	Fri	Voice callup. Male operator	USB	(JPL-HK)

V26	8073	26-2	1128	Fri	Voice callup. Female operator	USB	(JPL-HK)
V26	8073	26-2	1204	Fri	Messages. Female operator	USB	(JPL-HK)
V26	8073	26-2	1204	Fri	Message in Chinese. Male operator	USB	(JPL-HK)
V26	8073	27-2	0025	Sat	Message in Chinese. Female operator	USB	(JPL-HK)
V26	9054	9-2	1158	Tue	Messages. Female operator //4243 kHz	USB	(JPL-HK)
V26	9054	12-2	1205	Fri	Message. Male operator //4243 kHz	USB	(JPL-HK)
V26	9054	14-2	1209	Sun	Switced to voice. Messages. Female operator //4243 kHz	CW	(JPL-HK)
V26	9054	16-2	1138	Tue	Message //4243 kHz	USB	(JPL-Sib)
V26	9054	16-2	1148	Tue	Ends message //4243 kHz	USB	(JPL-HK)
V26	9054	18-2	1045	Thu	Messages. Female operator	LSB	(JPL-HK)
V26	9054	19-2	1138	Fri	Message. Female operator //4243 kHz	USB	(JPL-HK)
V26	9054	20-2	2340	Sat	Voice callup. Female operator	USB	(JPL-HK)
V26	9054	21-2	0013	Sun	Messages. Female operator	USB	(JPL-HK)
V26	9054	21-2	2341	Sun	Voice callup. Female oparator	USB	(JPL-HK)
V26	9054	22-2	1257	Mon	i.p. //4243 kHz	USB	(JPL-HK)
V26	9054	23-2	1212	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	9054	25-2	1212	Thu	Message in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	9054	25-2	1212	Thu	Message in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	9054	25-2	2338	Thu	Voice callup. Female operator	USB	(JPL-HK)
V26	9054	25-2	2357	Thu	Message in Chinese. Female operator	USB	(JPL-HK)
V26	9054	25-2	2357	Thu	Message in Chinese. Female operator	USB	(JPL-HK)
V26	9054	26-2	1203	Fri	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	9054	26-2	1203	Fri	Message in Chinese. Female operator //4243 kHz	USB	(JPL-HK)
V26	9054	26-2	2340	Fri	Voice callup. Female operator	USB	(JPL-HK)
V26	9054	26-2	2345	Fri	Messages in Chinese. Female operator	USB	(JPL-HK)
V26	9054	27-2	0005	Sat	Message in Chinese. Female operator	USB	(JPL-HK)
VC01	3519	26-2	1359	Fri	Chinese Robot	USB	(VH)
VC01	5006	1-2	1201	Mon	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	1-2	1309	Mon	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	2-2	1202	Tue	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	2-2	1303	Tue	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	3-2	1203	Wed	Chinese Robot i.p.	USB	(AB-HK)

VC01	5006	4-2	1212	Thu	Chinese Robot i.p.	USB	(AB-HK)
VC01	5006	4-2	1302	Thu	Chinese Robot i.p	USB	(AB-HK)
VC01	5006	5-2	1205	Fri	Chinese Robot i.p.	USB	(AB-HK)
VC01	6916	24-2	1959	Wed	Chinese robot	LSB	(PPA-Sib)
VC01	6916	27-2	1854	Sat	Chinese Robot	LSB	(AB-HK)
VC01	7878	23-2	1229	Tue	Chinese Robot	USB	(RonC)
VC01	9209	1-2	0604	Mon	Chinese Robot i.p.	USB	(AB-HK)
VC01	9209	4-2	0603	Thu	Chinese Robot i.p.	USB	(AB-HK)
VC01	9209	4-2	0801	Thu	Chinese Robot i.p.	USB	(AB-HK)
VR01	6966	24-3-2014	0743		Message: Yes, Yes, Number (repeated) in Russian	LSB	(Priyom)
VR01	13966	10-2	0925	Wed	Message: 14 hours 17 hours 10 hours ... 9 exact 10 exact 11 exact in Russian	USB	(AAI)
X06	8038	3-2	0746	Wed	Mazielka. Sequence: 124536	MFSK	(MG)
X06	8038	3-2	0824	Wed	Mazielka. Sequence: 124536	MFSK	(AAI)
X06	8038	3-2	1012	Wed	Mazielka. Sequence: 124536	MFSK	(AB)
X06	8038	3-2	1059	Wed	Mazielka. Sequence: 124536	MFSK	(JS3)
X06	9923	8-2	0934	Mon	Mazielka. Sequence: 463125	MFSK	(PUK)
X06	10335	6-2	1329	Sat	Mazielka. Sequence: 154632	MFSK	(Danix)
X06	11483	10-2	0829	Wed	Mazielka. Sequence: 412356	MFSK	(PUK)
X06	12152	1-2	0836	Mon	Mazielka. Sequence: 432516	MFSK	(AAI)
X06	12157	16-2	0804	Tue	Mazielka. Sequence: 165423	MFSK	(PUK)
X06	12158	25-2	1628	Thu	Mazielka. Sequence: 564213	MFSK	(Danix)
X06	12177	26-2	0937	Fri	Mazielka. Sequence: 356412	MFSK	(Danix)
X06	12215	19-2	1016	Fri	Mazielka. Sequence: 361245	MFSK	(Danix)
X06	13419	10-2	0829	Wed	Mazielka. Sequence: 465132	MFSK	(PUK)
X06	13465	17-2	0924	Wed	Mazielka. Sequence: 362154	MFSK	(Sch)
X06	13465	17-2	0924	Wed	Mazielka. Sequence: 362154	MFSK	(Danix)
X06	13506	11-2	0941	Thu	Mazielka. Sequence: 164532	MFSK	(PUK)
X06	13517	8-2	0934	Mon	Mazielka. Sequence: 463125	MFSK	(PUK)
X06	15687	16-2	0941	Tue	Mazielka. Sequence: 154263	MFSK	(PUK)
X06	15687	16-2	0945	Tue	Mazielka. Sequence: 154263	MFSK	(Danix)
X06	16116	3-2	1107	Wed	Mazielka. Sequence: 215346	MFSK	(JS3)
X06	16117	8-2	0934	Mon	Mazielka. Sequence: 463125	MFSK	(PUK)

X06	16153	11-2	0844	Thu	Mazielka. Sequence: 153624	MFSK	(Danix)
X06	17430	17-2	0941	Wed	Mazielka. Sequence: 214356	MFSK	(AAI)
X06	17475	8-2	0824	Mon	Mazielka. Sequence: 145623	MFSK	(F5JBR)
X06	18206	16-2	0917	Tue	Mazielka. Sequence: 246531	MFSK	(PUK)
X06	18206	16-2	0921	Tue	Mazielka. Sequence: 246531	MFSK	(Danix)
X06	20837	19-2	0932	Fri	Mazielka. Sequence: 645321	MFSK	(F5JBR)
XPA	6823	2-2	1940	Tue	msg	MFSK-20/10Bd	(HFD)
XPA	6823	9-2	1940	Tue	158 158 158 000 05270 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	6823	11-2	1940	Thu	158 158 158 000 06004 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	6823	16-2	1940	Tue	158 1 06273 00319 03541 ... 35076 46235 73072	MFSK-20/10Bd	(AB/MPJ)
XPA	6823	18-2	1940	Thu	158 1 06273 00319 03541 ... 35076 46235 73072	MFSK-20/10Bd	(AB)
XPA	6823	25-2	1940	Thu	158 1 09138 00205 75285 ... 79562 82478 03460	MFSK-20/10Bd	(AB)
XPA	7523	2-2	1920	Tue	msg	MFSK-20/10Bd	(HFD)
XPA	7523	9-2	1920	Tue	158 158 158 000 05270 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	7523	11-2	1920	Thu	158 158 158 000 06004 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	7523	16-2	1920	Tue	158 1 06273 00319 03541 ... 35076 46235 73072	MFSK-20/10Bd	(AB)
XPA	7523	18-2	1920	Thu	158 1 06273 00319 03541 ... 35076 46235 73072	MFSK-20/10Bd	(AB)
XPA	7523	25-2	1920	Thu	158 1 09138 00205 75285 ... 79562 82478 03460	MFSK-20/10Bd	(AB/MPJ)
XPA	8123	2-2	1900	Tue	msg	MFSK-20/10Bd	(HFD)
XPA	8123	2-2	1900	Tue	158 1 .6602 00313 65831 0114 35855 63...68855 87264 47144944242 83913 789 7 (too much QRM)	MFSK-20/10Bd	(MPJ)
XPA	8123	4-2	1900	Thu	158 1 00602 00313 65831 01148 35855 ... 31558 59195 unreadable	MFSK-20/10Bd	(MPJ)
XPA	8123	9-2	1900	Tue	158 158 158 000 05270 00001 00000 10140	MFSK-20/10Bd	(AB/MPJ)
XPA	8123	11-2	1900	Thu	158 158 158 000 06004 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	8123	16-2	1900	Tue	158 1 06273 00319 03541 ... 35076 46235 73072	MFSK-20/10Bd	(AB)
XPA	8123	18-2	1900	Thu	158 1 06273 00319 03541 ... 35076 46235 73072	MFSK-20/10Bd	(AB/MPJ)
XPA	8123	23-2	1900	Tue	158 1 09138 00205 75285 36373 55795 ... 52416 85521 44088 057 ...	MFSK-20/10Bd	(MPJ)
XPA	8123	25-2	1900	Thu	158 1 09138 00205 75285 ... 79562 82478 03460	MFSK-20/10Bd	(AB)
XPA	11409	6-2	0700	Sat	456 1 03388 00227 64958 ... 44917 39571 20633	MFSK-20/10Bd	(AB)
XPA	11409	10-2	0700	Wed	456 1 07163 00261 08319 ... 87801 73471 50233	MFSK-20/10Bd	(AB)
XPA	11409	13-2	0700	Sat	456 1 07163 00261 08319 ... 87801 73471 50233	MFSK-20/10Bd	(AB/HFD)
XPA	11409	17-2	0700	Wed	456 456 456 000 08690 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	20-2	0700	Sat	456 456 456 000 05085 00001 00000 10140	MFSK-20/10Bd	(AB)

XPA	11409	24-2	0700	Wed	456 456 456 000 09249 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	11409	27-2	0700	Sat	456 456 456 000 07236 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	6-2	0720	Sat	456 1 03388 00227 64958 ... 44917 39571 20633	MFSK-20/10Bd	(AB)
XPA	13509	10-2	0720	Wed	456 1 07163 00261 08319 ... 87801 73471 50233	MFSK-20/10Bd	(AB)
XPA	13509	13-2	0720	Sat	456 1 07163 00261 08319 ... 87801 73471 50233	MFSK-20/10Bd	(AB/HFD)
XPA	13509	17-2	0720	Wed	456 456 456 000 08690 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	20-2	0720	Sat	456 456 456 000 05085 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	24-2	0720	Wed	456 456 456 000 09249 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	13509	27-2	0720	Sat	456 456 456 000 07236 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	3-2	0840	Wed	456 1 03388 00227 64958 ... 44917 39571 20633	MFSK-10/20Bd	(AB)
XPA	14609	6-2	0740	Sat	456 1 03388 00227 64958 ... 44917 39571 20633	MFSK-20/10Bd	(AB)
XPA	14609	10-2	0740	Wed	456 1 07163 00261 08319 ... 87801 73471 50233	MFSK-20/10Bd	(AB)
XPA	14609	13-2	0740	Sat	456 1 07163 00261 08319 ... 87801 73471 50233	MFSK-20/10Bd	(AB/HFD)
XPA	14609	17-2	0740	Wed	456 456 456 000 08690 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	20-2	0740	Sat	456 456 456 000 05085 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	24-2	0740	Wed	456 456 456 000 09249 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	14609	27-2	0740	Sat	456 456 456 000 07236 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA2	8184	19-2	1120	Fri	03208 00028 63693 ... 9268_ 57091 55074	MFSK-16/20Bd	(Danix)
XPA2	9283	19-2	1220	Fri	09811 00029 09731 ... 28034 41934 04252	MFSK-16/20Bd	(Danix)
XPA2	10256	19-2	1130	Fri	03208 00028 63693 ... 9268_ 57091 55074	MFSK-16/20Bd	(Danix)
XPA2	10427	19-2	1225	Fri	09811 00029 09731 ... 28034 41934 04252	MFSK-16/20Bd	(Danix)
XPA2	13538	2-2	1540	Tue	05135 00083 67617 ... 19253 38787 16733	MFSK-16/20Bd	(AB/HFD)
XPA2	13538	9-2	1540	Tue	03637 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13538	14-2	1540	Sun	09562 00097 06182 ... 43928 00553 73362	MFSK-16/20Bd	(AB)
XPA2	13538	16-2	1540	Tue	09562 00097 06182 ... 43928 00553 73362	MFSK-16/20Bd	(AB)
XPA2	13538	23-2	1540	Tue	06571 00001 00000 10040	MFSK-16/20Bd	(AB)
XPA2	13538	28-2	1540	Sun	01127 00089 48085 ... 12490 34820 63305	MFSK-16/20Bd	(AB/MPJ)
XPA2	13883	1-2	0840	Mon	05135 00083 67617 ... 18253 38797 16733	MFSK-16/20Bd	(AB)
XPA2	13883	3-2	0804	Wed	05517 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13883	8-2	0840	Mon	05237 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13883	10-2	0840	Wed	01877 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13883	15-2	0840	Mon	06969 00001 00000 10140	MFSK-16/20Bd	(AB)

XPA2	13883	17-2	0840	Wed	Null message	MFSK-16/20Bd	(AB)
XPA2	13883	22-2	0840	Mon	01437 00125 25553 ... 33951 91802 55425	MFSK-16/20Bd	(AB)
XPA2	13883	29-2	0840	Mon	04101 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	14538	2-2	1520	Tue	05135 00083 67617 ... 19253 38787 16733	MFSK-16/20Bd	(AB/HFD)
XPA2	14538	9-2	1520	Tue	03637 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14538	14-2	1520	Sun	09562 00097 06182 ... 43928 00553 73362	MFSK-16/20Bd	(AB/BvR)
XPA2	14538	16-2	1520	Tue	09562 00097 06182 ... 43928 00553 73362	MFSK-16/20Bd	(AB)
XPA2	14538	23-2	1520	Tue	06571 00001 00000 10040	MFSK-16/20Bd	(AB)
XPA2	14538	28-2	1520	Sun	01127 00089 48085 ... 12490 34820 63305	MFSK-16/20Bd	(AB)
XPA2	14558	5-2	0700	Fri	05517 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14558	9-2	0700	Tue	04544 00139 84814 ... 64315 23456 06125	MFSK-16/20Bd	(AB)
XPA2	14558	12-2	0700	Fri	04544 00139 84814 ... 64315 23456 06125	MFSK-16/20Bd	(AB)
XPA2	14558	16-2	0700	Tue	05162 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14558	26-2	0700	Fri	09037 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14783	1-2	0820	Mon	05135 00083 67617 ... 18253 38797 16733	MFSK-16/20Bd	(AB)
XPA2	14783	3-2	0820	Wed	05517 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14783	8-2	0820	Mon	05237 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14783	10-2	0820	Wed	01877 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14783	15-2	0820	Mon	06969 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14783	17-2	0820	Wed	Null message	MFSK-16/20Bd	(AB)
XPA2	14783	22-2	0820	Mon	01437 00125 25553 ... 33951 91802 55425	MFSK-16/20Bd	(AB/HFD)
XPA2	14783	29-2	0820	Mon	04101 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15958	5-2	0720	Fri	05517 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15958	9-2	0720	Tue	04544 00139 84814 ... 64315 23456 06125	MFSK-16/20Bd	(AB)
XPA2	15958	12-2	0720	Fri	04544 00139 84814 ... 64315 23456 06125	MFSK-16/20Bd	(AB)
XPA2	15958	16-2	0720	Tue	05162 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15958	26-2	0720	Fri	09037 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15983	1-2	0800	Mon	05135 00083 67617 ... 18253 38797 16733	MFSK-16/20Bd	(AB)
XPA2	15983	3-2	0800	Wed	05517 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15983	8-2	0800	Mon	05237 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15983	10-2	0800	Wed	01877 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15983	15-2	0800	Mon	06969 00001 00000 10140	MFSK-16/20Bd	(AB)

XPA2	15983	17-2	0800	Wed	Null message	MFSK-16/20Bd	(AB)
XPA2	15983	22-2	0800	Mon	01437 00125 25553 ... 33951 91802 55425	MFSK-16/20Bd	(AB/HFD)
XPA2	15983	29-2	0800	Mon	04101 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16212	5-2	1440	Fri	05868 00089 12635 ... 36185 69330 22654	MFSK-16/20Bd	(AB/HFD)
XPA2	16212	6-2	1440	Sat	05868 00089 12635 ... 36185 69330 22654	MFSK-16/20Bd	(AB)
XPA2	16212	12-2	1440	Fri	03510 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	16212	13-2	1440	Sat	05113 00001 00000 10140	MFSK-16/20Bd	(AB/BvR)
XPA2	16212	26-2	1440	Fri	04723 00075 26498 34015 59167 ... 58640 26324 82208 28695 11100	MFSK-16/20Bd	(MPJ)
XPA2	16212	27-2	1440	Sat	04723 00075 26498 ... 82208 28695 11100	MFSK-16/20Bd	(AB)
XPA2	16338	2-2	1500	Tue	05135 00083 67617 ... 19253 38787 16733	MFSK-16/20Bd	(AB/HFD)
XPA2	16338	9-2	1500	Tue	03637 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16338	14-2	1500	Sun	09562 00097 06182 ... 43928 00553 73362	MFSK-16/20Bd	(AB/MPJ)
XPA2	16338	16-2	1500	Tue	09562 00097 06182 ... 43928 00553 73362	MFSK-16/20Bd	(AB/MPJ)
XPA2	16338	23-2	1500	Tue	06571 00001 00000 10040	MFSK-16/20Bd	(AB)
XPA2	16338	28-2	1500	Sun	01127 00089 48085 ... 12490 34820 63305	MFSK-16/20Bd	(AB/MPJ)
XPA2	17419	5-2	1420	Fri	05868 00089 12635 ... 36185 69330 22654	MFSK-16/20Bd	(AB/HFD)
XPA2	17419	6-2	1420	Sat	05868 00089 12635 ... 36185 69330 22654	MFSK-16/20Bd	(AB)
XPA2	17419	12-2	1420	Fri	03510 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	17419	13-2	1420	Sat	05113 00001 00000 10140	MFSK-16/20Bd	(AB/BvR)
XPA2	17419	26-2	1420	Fri	04723 00075 26498 34015 59167 ... 58640 26324 82208 28695 11100	MFSK-16/20Bd	(MPJ)
XPA2	17419	27-2	1420	Sat	04723 00075 26498 ... 82208 28695 11100	MFSK-16/20Bd	(AB)
XPA2	17458	5-2	0740	Fri	05517 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17458	9-2	0740	Tue	04544 00139 84814 ... 64315 23456 06125	MFSK-16/20Bd	(AB)
XPA2	17458	12-2	0740	Fri	04544 00139 84814 ... 64315 23456 06125	MFSK-16/20Bd	(AB)
XPA2	17458	16-2	0740	Tue	05162 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	17458	26-2	0740	Fri	09037 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18667	5-2	1400	Fri	05868 00089 12635 ... 36185 69330 22654	MFSK-16/20Bd	(AB/HFD)
XPA2	18667	6-2	1400	Sat	05868 00089 12635 ... 36185 69330 22654	MFSK-16/20Bd	(AB)
XPA2	18667	12-2	1400	Fri	03510 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	18667	13-2	1400	Sat	05113 00001 00000 10140	MFSK-16/20Bd	(AB/BvR)
XPA2	18667	27-2	1400	Sat	04723 00075 26498 ... 82208 28695 11100	MFSK-16/20Bd	(AB)

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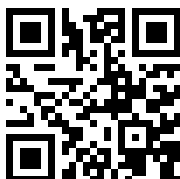
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8 63298 75698 27465 87326 49876 28376 81273 98615 66
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