

670	27364	92836	09428	61208	74982	36498	32764	81276	01
6986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	70
723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
7591	87364	87265	96710	27630	12673	84769	28743	98127	50
758	63298	75698	27465	87326	49876	28376	81273	98615	62
767	87432	74328	78674	29867	32867	67867	86786	43206	432
767	68768	68763	34234	34238	68768	62342	48273	48768	234
7936	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
743	98798	98754	98754	98754	98754	29867	67543	67986	867
776	87698	69876	87698	69876	87612	12341	34867	86798	632
867	43298	65656	56756	56123	32143	14321	32143	14321	321
871	02787	58765	76587	58765	76587	58765	76587	58756	765
871	75477	26547	54365	36543	54365	36543	54365	36543	543

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #231, December 2015

Editor: Ary Boender email: udxf@udxf.nl

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

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

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

Gelukkige Nuwejaar	Bonne Année	Laimingy Naujujy Mety
Ilufio Ètussé	Lokkich Neijjer	Gelükkig Nyjaar
Gëzuar Vitin E Ri	Bon An	Omwaka Omulungi
E Glëckliches Nëies	Dioul Mo Wouri	E Gudd Neit Joër
سعيد عام	Feliz Ano Novo	Среќна Нова Година
Շնորհավոր Նոր Տարի	გილოცავთ ახალ წელს	Arahaba Tratry Ny Taona
Amokitanone	Frohes Neues Jahr	Selamat Tahun Baru
Yeni Iliniz Mübarək	Καλή Χρονιά	Nava Varsha Ashamshagal
Aw Ni San'kura	Sal Mubarak	Is-Sena T-Tajba
Mbuee	Rogüerohory Año Nuévo-Re	Kia Porotu Te Ano Ou
Urte Berri On	Bönn Ané	Kia Hari Te Tau Hou
3 Новым Годам	Barka Da Sabuwar Shekara	Navin Varshaachya Hardik Shubbheccha
Shuvo Noboborsho	Hauoli Makahiki Hou	Kaoha Nui Tenei Ehua Hou
Asgwas Amegas	חג טוב	Ose:Rase
Mbembe Mbu	Ombura Ombe Ombua	Шинэ Жилийн Баярын Мэнд Хвргэе
Nauka Sal Mubarak Hoe	Nav Varsh Ki Subhkamna	Wënd Na Kô-D Yuum-Songo
Bonne Année	Nyob Zoo Xyoo Tshiab	Umyaka Omucha Omuhle
Sretna Nova Godina	Boldog Új Év	Naya Barsha Ko Subhakamana
Bloavezh Mat	Gleðilegt Nýtt Ár	Ngeu' Shwi Pong Mbeo Paghe
Честита Нова Година	Obi Anuri Nke Afor Ohuru	Boune Anna
စွစွာစွယ်: ဓမ္မတဂ္ဂ	Selamat Tahun Baru	Godt Nyttår
Sun Lin Fi Lok	▷▷▷▷ မင်္ဂလာဆောင်	Bon Annada
Bon Any Nou	Ath Bhliain Faoi Mhaise	Subha Nababarsa
Malipayong Bag-Ong Tuig	Felice Anno Nuovo	Naya Sar Mubarak
新年快乐	Sugeng Warsa Enggal	Ungil Beches Er Rak
Bledhen Nowedh Da	あけまして おめでとう ございます	Bon Anja
Pace È Salute	Aseggas Ameggaz	Nawe Kaalmo Mobarak Sha
Sretna Nova Godina	ಹೊಸ ವರ್ಷದ ಹಾರ್ಡಿಕ ಶುಭಾಶಯಗಳು	Gelukkig Nieu Jaar
Šťastný Nový Rok	Nav Reh Mubarakh	مبارک نو سال
Godt Nyttår	Zhana Zhiliniz Kutti Bolsin	Szczęśliwego Nowego Roku
Sale Naw Tabrik	Sur Sdei Chhnam Thmei	Feliz Ano Novo
Mbu Mwa Bwam	Ngethi Cya Mwaka Mweru	ਨਵੇਂ ਸਾਲ ਦੀਆਂ ਵਧਾਈਆਂ
Gelukkig Nieuwjaar	Umwaka Mwiza	Bun Di Bun Onn
Happy New Year	Umwaka Mwiza	Baxtalo Nevo Bersh
Feličan Novan Jaron	Жаңы Жылыңыздар Менен	Un An Nou Fericit
Head Uut Aastat	새해 복 많이 받으세요	С Новым Годом
Efé Bé Dzogbenyui Nami	Sala We Ya Nû Pîroz Be	Ia Manuia Le Tausaga Fou
Mbembe Mbu	Mvhura Zompe Zongwa	Luholâš Uđđâ Ive
Bamba Mbu	ສະຫງ່າຍິ່ງໃໝ່	Buorre Ádâ Jagev
Gott Nýggjár	Felix Sit Annus Novus	Lihkolaš Ođđa Jagi
Manigong Bagong Taon	Laimīgu Jauno Gadu	Leklvaz Ođđ Ee ´ jj
Onnellista Uutta Vuotta	Bón Ànno Nêuvo	Buerie Orre Jaepie
Gelukkig Nieuwjaar	Bonana	Nzoni Fini Ngou
Kudo Xwe Yoyo		

Bonu Annu Nou
 Bliadhna Mhath Ur
 Срећна Нова Година
 Mwaha Mwema
 Goredzva Rakanaka
 Nain Saal Joon Wadhayoon
 ඉහ අළුත් අවුරුද්දක් වේවා
 Omaka T'etcha Kin Washte Kte Ni
 Šťastný Nový Rok
 Srečno Novo Leto
 Dobir Leto
 Sanad Wanagsan
 Feliz Año Nuevo
 Wan Bun Nyun Yari
 Mwaka Mzuri
 Gott Nytt År
 Es Guets Nöis

Manigong Bagong Taon
 Ia Orana I Te Matahiti Api
 Соли Нав Муборак
 Lhochharla Jyaba Danba
 Assugas Amegaz
 இனிய புத்தாண்டு நல்வாழ்த்துக்கள்
 Yaña Yil Belän
 నూతన సంవత్సర శుభాకాంక్షలు
 สวัสดีปีใหม่
 ལྷན་ །བཀའ་མིས་བདེ་ལེགས།
 Sanat Farah Wa Khare
 Tshidimu Tshilenga
 Itumelele Ngwaga O Mosha
 Posa Varshada Shubashaya
 Yeni Yılınız Kutlu Olsun
 Gluk In'n Tuk

Afehyya Pa
 Vyř Aren
 Щасливого Нового Року
 Naya Sal Mubarak
 Yangi Yilingiz Qutlug' Bo'Isin
 Chúc Mừng Năm Mới
 Ene Boune Anéye
 Blwyddyn Newydd Dda
 Bon Lanné
 Dewenati
 Nyak'omtsha
 א גוט ארא'
 Eku Odun
 Barka'n Da Djiri Tagio
 Unyaka Omusha Omuhle



The Gerbrandy Tower in IJsselstein, The Netherlands, is used for directional radio services and for FM- and TV-broadcasting. The tower with guyed aerial mast is 375 meters high.

Every December the tower is converted into the largest Christmas tree in the world.

I wish the readers of Numbers & Oddities, the members of UDXF, Spooks, Priyom, HF Underground, Benelux DX-Club, DX-Antwerp, and their families a healthy and prosperous new year.

Thanks to those of you who contributed to N&O and thanks to the people who sent their logs to UDXF.

A special thanks to Jim and Nick for compiling the UDXF logs every month; and to Charlie and Jim for being UDXF's moderators.

December was a hectic month. Besides editing N&O, we moved UDXF from Yahoo to Groups.io :

<https://groups.io/g/UDXF>

- 3145 members were transferred to Groups.io
- 549 members couldn't be moved because their email bounced
- 73577 messages and 28 files were transferred
- We also wrote a new FAQ and a Moderators Manual
- The Forum info on the UDXF and N&O websites have been updated

I encountered a lot of computer problems during the last week of the year and the first week of the new year. That's why N&O is quite late this time. I hope that the problems will not return.



Intelligence news

In 1977, Johanna van Haarlem finally tracked down the son, Erwin, she had abandoned as a baby 33 years earlier. She immediately travelled to London to meet him. What followed, writes Jeff Maysh, is an unbelievable story of deception and heartbreak. <http://www.bbc.com/news/magazine-38261956>

IntelNews publishes many interesting articles each year. Their website can be found here: <https://intelnews.org>

Year in review: The 10 biggest spy-related stories of 2016, part I : <https://intelnews.org/2016/12/29/01-2033/>

Year in review: The 10 biggest spy-related stories of 2016, part II : <https://intelnews.org/2017/01/02/01-2034/>

VOICE STATIONS



E06

14575/17420 kHz, 01-12/15-12, 0600/0700 UTC

923 758 104

77090 17338 29170 62935 33028 83187 64125 40438 09744 68049
08828 35754 94462 77954 17933 19295 02933 77549 19228 27827
83122 02363 43755 58527 05749 05166 26341 15384 15047 03597
12474 87341 38239 21242 32470 62872 77129 39367 28860 10655
30268 01473 47933 81060 19112 37876 31384 08123 16639 02495
68992 16686 01827 39027 98269 64414 88460 18717 62031 73352
01688 16884 59796 30729 00765 20411 53988 63677 71434 83380
16853 17577 36370 73041 29034 92691 57121 73288 65748 18798
26003 37860 31500 72488 71363 10421 29261 66838 24664 53733
75062 68122 22825 55094 93942 19272 44245 00233 58167 74754
01966 32845 53679 76572
758 104 00000

4760 kHz, 02-12, 2129 UTC

4760 kHz, 16-12, 2228 UTC

472 149 52

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

Windows XP error sound at 2143z on 16-12



E07

8123/9323/10423 kHz, 03-12/04-12/10-12/11-12, 0700/0720/0740 UTC

134 134 134 1 414 44 414 44
39910 34863 04369 96989 31997 30623 57192 60469 94030 16548
13470 46539 12438 28403 76277 95401 03243 22639 95401 99330
01842 27474 28737 13678 71661 89691 72834 97003 52200 10876
18948 10074 55007 73905 03098 50107 30895 72858 35501 23816
85993 98305 05403 90091
000 000

11493/10193/8193 kHz, 09-12, 1100/1120/1140 UTC.

411 411 411 1 8106 71 8106 71
44928 77638 77715 97652 58562 66477 68733 60653 32733 03000
27088 60683 48521 16430 57350 98430 71064 47571 51732 74787
56884 10402 14151 83419 24287 08582 59645 07885 70966 19487
73965 13764 25442 65450 90819 54245 56915 10352 98432 50303
51077 62258 98403 27032 81880 48655 82131 33979 62860 71630
83610 70487 84375 34762 42417 64219 35262 58108 55174 04027
27253 28455 44361 02383 98641 91020 83822 81041 09153 37650
28221
000 000

6823/5823/5123 kHz, 12-12/14-12/19-12/21-12, 2000/2020/2040 UTC

881 881 881 1 570 39 570 39
75230 25689 06098 01556 57516 05139 26116 93918 42470 60053
73853 48334 21401 61923 02336 93164 95540 07425 59086 38764
37131 98976 24469 77208 61748 99883 77392 70096 24310 82277
58074 55946 70959 88981 93392 37190 41808 30098 81562
000 000

11493/10193/8193 kHz, 13-12/16-12, 1100/1120/1140 UTC.

411 411 411 1 3196 82 3196 82
18515 67999 04419 02286 97402 97140 08364 02289 07769 08640
35701 19811 59623 95430 00941 51602 99380 11707 02464 06031
24520 16887 86310 94640 44025 61770 04125 28986 36620 00909
39932 61043 29343 09617 48993 55420 51594 47595 73913 73735
02937 18918 52234 14376 98770 69409 52214 95574 40971 92274
48946 59295 33490 16645 48362 92332 65140 34075 35813 27718
75931 63737 26099 03957 13658 65201 45219 85551 04564 16552
91537 22725 92948 05999 06214 59973 65519 55924 36019 09714
87118 14485
000 000

On 13-12 at 1143 UTC, the transmission stopped during group 19 and restarted with 411 411 411 1 (R) then into group 9

7464/5864/4564 kHz, 21-12, 1800/1820/1840 UTC

485 485 485 1 598 126 598 126
88451 26221 57114 72093 18659 48628 51653 41422 07009 32120
50853 77119 53448 05658 35563 13555 59665 21095 61539 34416
99564 74492 31608 94550 08590 83625 97994 69664 15111 41383
88737 48648 41370 19359 78943 49251 98860 84006 21205 62130
44122 90155 31133 54083 03991 72657 64200 27773 01731 07291
96010 64827 96483 10212 07105 54517 84511 09187 20063 22051
38597 70768 95431 09075 75838 51975 86013 72027 74097 53483
32063 68649 24639 56686 41404 81147 92283 49325 97116 40777
89157 71358 78893 94279 17766 05087 24059 05772 88906 25008
75417 92596 05506 95381 52824 64948 85704 94211 12167 73211
90489 65280 32858 40973 81051 44960 29122 23925 03004 52872
31271 17962 85408 18399 51699 95813 84294 82404 76682 68343
94962 34131 61430 08403 23869 81133
000 000



E07a

5877/5277/4577 kHz, 14-12, 2100/2120/2140 UTC

825 825 825 1 64340 6029 53 6029 53
09778 10129 02779 70220 73585 60609 17868 08100 65816 99085
52484 40572 51068 90606 65087 59991 72157 83472 81116 98223
71105 09683 48651 72534 24858 93038 19974 50666 46116 34182
70660 59400 30212 81472 39590 13510 14039 65589 17657 33749
43375 83545 93172 98782 20646 84016 47860 46198 96275 28138
97760 43220 72539
000 000

5111/5811/6911 kHz, 15-12, 0530/0550/0610 UTC

189 189 189 1 64340 6029 53 6029 53
09778 10129 02779 70220 73585 60609 17868 08100 65816 99085
52484 40572 51068 90606 65087 59991 72157 83472 81116 98223
71105 09683 48651 72534 24858 93038 19974 50666 46116 34182
70660 59400 30212 81472 39590 13510 14039 65589 17657 33749
43375 83545 93172 98782 20646 84016 47860 46198 96275 28138
97760 43220 72539
000 000



E11a

8680 kHz, 01-12/02, 1300 UTC

580/34 Attention
19280 13246 18904 05264 01917 12842 05666 74868 86372 11404
00571 40070 37463 65433 93718 15829 35080 60350 43779 26651
20070 21747 24799 68297 76334 62270 28264 48059 44316 56240
21319 26308 90280 45853
Attention, rpt msg, out

13046 kHz, 05-12, 0600 UTC

182/30 Attention

71105 38704 56751 32603 99157 17460 26562 46498 69933 59234
08032 29300 84372 25873 97772 64289 31010 61193 49136 49077
36746 19200 99986 93000 54618 46133 47093 78511 34630 06061

Attention, rpt msg, out

7840 kHz, 06-12/08-12, 0645 UTC

510/37 Attention

87685 44273 81357 71569 40670 54376 38707 99382 54883 35611
13591 85356 63984 66057 32980 57161 48118 00458 84492 13297
82599 85384 54467 45147 45433 14535 84801 46509 93315 33956
43260 79421 64484 33486 30361 81986 51660

Attention, rpt msg, out

16112 kHz, 06-12/08-12, 0745 UTC

338/35 Attention

47318 86949 16573 37576 87205 26271 93902 63090 35858 01551
20452 27152 26320 01028 73997 74059 40875 46847 00588 11476
21759 38501 26900 49701 68643 32344 61095 42947 52735 66672
38939 31331 01125 99704 25094

Attention, rpt msg, out

7984 kHz, 06-12/07-12, 1205 UTC

465/31 Attention

20826 54972 63914 41593 70806 32033 50723 08647 19505 89744
06347 16174 49824 35412 78532 23008 79202 68567 73253 42358
60293 89337 64328 39948 92478 59896 33255 04842 92573 74000
47322

Attention, rpt msg, out

14666 kHz, 06-12/10-12, 1345 UTC

917/39 Attention

88819 44261 94208 43674 82674 24339 56881 94297 17316 93424
94044 71875 77846 65116 35236 56694 25865 27190 92091 63270
81907 03982 28306 70640 96101 69293 36903 43588 20502 93014
99483 63433 50859 59915 65026 08191 30398 15141 08519

Attention, rpt msg, out

5779 kHz, 07-12, 0315 UTC

250/38 Attention

40013 88293 39886 28708 47046 89954 88127 78560 85060 90358
91108 54116 44098 25963 65118 21741 67634 15470 51003 67744
17366 31195 53845 25554 04283 58212 10036 64368 82550 11277
73948 05324 92119 05599 28903 94303 68423 32795

Attention, rpt msg, out

10213 kHz, 12-12, 0745 UTC

5409 kHz, 15-12, 1530 UTC

267/34 Attention

08997 26440 82406 20827 49301 85224 87281 34103 49432 31006
14996 05651 46714 11866 39871 70317 96485 84674 23817 55500
79308 02442 32981 29883 05729 34503 88208 30354 03842 83151
51939 13121 52153 68893

Attention, rpt msg, out

9446 kHz, 12-12/14-12, 0900 UTC

530/32 Attention

51156 98712 97789 81161 02777 41684 70712 06430 55917 02271
36700 02675 94898 66232 08838 13988 41785 81141 87551 48136
93781 62025 15465 27899 50104 65146 17576 57064 69622 44386
77020 64382

Attention, rpt msg, out

4505 kHz, 13-12/18-12, 1605 UTC

233/37 Attention

62196 23735 52563 16863 39881 53430 43589 35395 16511 85847
79448 08474 75040 15766 82366 32907 79549 04930 48867 28962
57631 52295 00343 13001 02418 62421 51825 96526 26464 01996
18024 12601 65429 21391 58015 58747 18961

Attention, rpt msg, out

5082 kHz, 15-12, 1730 UTC

412/37 Attention

89473 58151 44719 80540 68471 00494 10861 45684 38197 31589
06387 13775 50789 46496 57760 37933 38932 79074 85999 69073
43460 70545 91403 26898 70489 64755 72152 93638 45112 93147
20056 51841 31307 20155 90736 65761 53816

Attention, rpt msg, out

16112 kHz, 16-12/18-12, 0730 UTC

353/40 Attention

57174 12375 46035 01009 07343 84519 05202 90459 87764 88627
30921 80112 78565 14807 53475 73370 48715 86709 73709 81780
11994 01115 25450 82592 17452 21410 63427 48330 04396 89463
37393 22340 21817 04655 99732 28664 58803 61136 91670 70525

Attention, rpt msg, out

16335 kHz, 16-12, 1650 UTC

929/36 Attention

15095 15833 56922 92683 34526 67207 71619 28930 16668 93548
70800 72506 12631 37146 55594 01357 68281 75504 00049 10829
27027 03627 01337 37497 48393 79135 44904 34705 47125 90632
59276 58261 31698 75411 04636 32559

Attention, rpt msg, out

10429 kHz, 18-12, 0805 UTC

316/37 Attention

42643 85195 90437 47455 63709 68365 31327 93228 74159 33391
25232 99451 45062 52180 73698 48701 81524 22312 04260 67941
61714 71953 97675 95422 91678 32003 41577 85250 84857 68978
81028 73965 53709 68629 95898 96122 97536

Attention, rpt msg, out

7371 kHz, 19-12/21-12, 0820 UTC

436/31 Attention

95267 41633 18190 98244 15926 87313 63861 89322 16262 82875
59994 00878 89266 74504 61755 23144 20706 96026 64267 50938
06879 96102 34089 97892 59508 70201 11267 03879 83063 74624
98652

Attention, rpt msg, out

12153 kHz, 27-12, 1045 UTC

570/31 Attention

70904 97288 57012 65542 80622 81464 33571 39810 36994 14867
02216 77113 10175 80128 36386 67909 91213 05855 26611 15823
79273 04003 38744 54762 61590 94362 34596 39958 91654 54274
25836

Attention, rpt msg, out

9950 kHz, 28-12, 0930 UTC

273/36 Attention

43037 65208 11448 03942 99925 47502 81188 92605 18918 17935
26866 16129 29274 64486 37965 39412 12936 98137 28029 45689
51404 93043 54353 97087 84327 82291 39574 30142 65600 18428
65543 12534 82741 09283 51495 83611

Attention, rpt msg, out

8545 kHz, 21-12/31-12, 1730 UTC

402/31 Attention

32404 99941 31192 05408 10821 67044 60759 91187 91372 11057
47153 90143 90145 28748 56786 49185 88504 90656 33239 22610
61347 80970 33440 65343 85181 66131 93510 48002 76404 88527
62479

Attention, rpt msg, out

8800 kHz, 30-12, 1000 UTC

300/31 Attention

03845 71309 38559 93488 87976 89157 69652 66395 16181 71139
39304 86915 92381 73115 12686 43229 50885 34698 13384 98246
07590 76511 08007 59075 01474 43950 38693 46977 92753 05879
00998

Attention, rpt msg, out



E17z

11170/9820 kHz, 01-12/08-12, 0800/0810 UTC

674 918 5 34140 78386 91497 82963 24162 918 5 00000

11170/9820 kHz, 15-12/22-12, 0800/0810 UTC

674 903 5 52701 63919 92699 14600 74248 903 5 00000

11170/9820 kHz, 29-12, 0800/0810 UTC

674 674 674 00000



E25

6140 kHz, 11-12, 1000 UTC

Windows 7 login sound

Enta Omri

570 570 570 570 570 570 570 570 570 570 570 570 570 570

Message message message

6832 1026 6774 7181 2608

Rebeat rebat rebat

6832 ... 1026 6774 (beeps) 7181 (win7 error sound mid group) ... 2608

1026 ...

End of message. End of transmission

570 570 570 570 570 570 570 570 570 570 570 570 570 570

Message message message

6832 1026 6774 7181 2608

Rebeat rebat rebat

6832 1026 6774 7181 2608

End of message. End of transmission

Recording:

<http://priyom.org/media/176584/e25-6140am-201612111-1000z-byparkeerwacht.ogg>

6140 kHz, 12-12, 1000 UTC

570 570 570 570 570 570 570 570 570 570 570 570 570 570

Message message message

6832

Blank carrier

Enta Omri starting mid song. Music ends abruptly

570 570 570 570 570 570 570 570 5...70 570(win7 error) 570 570 570 570

Windows 7 error sound 570

Message message message

6832 1026 6774 7181 2608

Rebeat rebat rebat

6832 1026 Windows 7 error sound 6774 7181 2608

End of message. End of transmission

Windows 7 error sound

Recording:

<http://priyom.org/media/176589/e25-6140am-201612112-1000z-byparkeerwacht.ogg>



G06

4519 kHz, 08-12/23-12, 1830 UTC

Windows XP error sound

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

Windows XP shut down sound at 1850z

4792 kHz, 09-12, 1917 UTC

1 1 Windows XP error sound

4792 kHz, 09-12/23-12, 1928 UTC

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

4842 kHz, 15-12, 2030 UTC, G06 was sent instead of E06

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

Windows XP error during group 2. Windows XP shutdown sound at the end

Logs and oddities:

Freq	Date	UTC	Day	Details
5320	5-12	0800	Mon	Windows sounds. Transmitter noise. At 0806z 329 329 329 00000
3700	5-12	1658	Mon	574 574 574 00000
4562	5-12	1714	Mon	111 111 111 00000
4562	5-12	1732	Mon	Windows sound, also at 1733z and 1734z
4562	5-12	1740	Mon	5
4562	5-12	1758	Mon	574 574 574 00000 Windows XP shutdown sound
4039	7-12	1259	Wed	574 574 574 00000
4460	8-12	1300	Thu	329 329 329 00000 Windows XT shutdown sound
4519	8-12	1830	Thu	Windows XP error sound 271 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP shut down sound
4792	9-12	1917	Fri	1 1 Windows XP error sound
4792	9-12	1928	Fri	436 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000

Freq	Date	UTC	Day	Details
4562	12-12	1718	Mon	111 (EE, male)
4562	12-12	1727	Mon	111 11 (GG-female), 111 (EE, male), Windows XP error sound, 1 (SS, female)
4562	12-12	1749	Mon	111 111 (EE, female)
4562	12-12	1758	Mon	574 574 574 00000 Windows XP shutdown sound
4916	14-12	1158	Wed	574 574 574 00000 Windows XP shutdown sound
4039	14-12	1258	Wed	574 574 574 00000
4842	15-12	2030	Thu	321 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP error during group 2. Windows XP shutdown sound at the end
5320	19-12	0753	Mon	111 111 111 00000
5320	19-12	0754	Mon	3
5320	19-12	0758	Mon	329 329 329 00000
4460	22-12	1245	Thu	111 00
4460	22-12	1301	Thu	329 329 329 00000
4519	22-12	1739	Thu	111 00000 (rptd) 111 (stops)
4519	22-12	1830	Thu	271 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000
4792	23-12	1928	Fri	436 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000



S06

7812/5736 kHz, 02-12/03-12, 1900/2000 UTC

761 854 39
52709 87632 52410 41558 98906 44730 80714 24421 76660 21559
95777 41969 19905 48863 40735 70760 22364 99180 47534 39646
54465 05283 73552 72992 96140 07061 04796 57442 44368 23852
08284 83569 36609 41177 60217 98247 91202 47377 30283
854 39 00000

17435/14375 kHz, 30-12, 0830/0930 UTC

842 650 47
23848 09327 34595 64491 27662 16583 74604 97140 23749 10334
55544 90809 77083 02638 48626 31124 38618 37388 93994 97194
70884 37082 28331 68404 25649 09849 13732 37533 53308 15160
60038 91170 48704 11681 57819 43356 63061 35680 64172 33372
36716 83445 08561 23641 32340 96141 10844
650 47 00000

9463/7353 kHz, 27-12, 1000/1030 UTC, unscheduled

480 523 40
56799 23172 12538 90406 07709 11939 47843 07747 55616 13621
64722 61188 95389 50048 29275 46166 33523 55941 82452 21222
19101 18485 00621 22894 94543 02359 17202 33903 47724 14863
70931 67461 66089 57923 15689 38290 64137 99288 71561 84703
523 40 00000



S06s

Unscheduled messages and oddities.

Unscheduled message on 5193 kHz, 13-12, 1815 UTC

167 601 4 17658 42872 34832 49511 601 4 00000

11780 kHz, 16-12, 0930 UTC

516 492 7 13668 32805 37450 46501 31053 44246 31827 492 7 00000

12570 kHz, 16-12, 0940 UTC

Carrier till 0946z, then 516 (4x), then carrier till 0953z

Again problems on the 23rd:

11780 kHz, 23-12, 0930 UTC

516 (R4) stopped, restart at 0935z

516 (R3) 492 7 13668 32805 37450 46501 31053 44246 31827 492 7 00000

Note that the 7th group was repeated as 310827

12570 kHz, 23-12, 0945 UTC

Late start due to the problems during the first transmission

516 492 7 13668 32805 37450 46501 31053 44246 31827 492 7 00000

Note that the 7th group was repeated as 310827

6943 kHz, 07-12, 1235 UTC, i.p.

96191 21723 94964 80933 41068 16101 40866 69751 00840 63853 61023 57209 40933

904 13 00000

6943 kHz, 14-12/21-12, 1230 UTC

967 967 967 00000



S11a

9610 kHz, 06-12/09-12, 1020 ITC

425/36 Vnimanaye

18226 02389 50027 99038 12103 14285 80686 93405 56081 20821

72467 94073 73341 35048 25486 96940 89886 12196 58453 03341

30799 91292 35430 24038 96009 19763 67710 61811 42308 94561

21622 62823 54743 09202 42590 01144

Vnimanaye, rpt msg, konets

7504 kHz, 13-12/16-12, 0915 UTC

483/31 Vnimanaye

16805 63841 16270 30755 49788 98482 99290 70880 86118 02095

44392 58045 11084 02102 83531 87135 82890 72504 56256 78139

74470 60363 93224 30882 96343 75924 62485 80192 01051 32177

71020

Vnimanaye, rpt msg, konets

5815 kHz, 14-12/16-12, 1955 UTC

370/36 Vnimaniye

98175 95174 67121 48800 86480 70804 16894 17774 06828 08051
71055 60447 88203 20072 90294 66718 94616 67164 33262 85878
35494 59705 01421 88854 66660 74908 42815 63537 19857 66045
12518 50042 50181 47181 90077 22668

Vnimaniye, rpt msg, konets

4828 kHz, 20-12, 0455 UTC

321/31 Vnimaniye

12526 93575 65576 96189 24589 01306 50078 13448 27972 70428
15836 36371 86848 51252 51130 96218 43994 12372 13439 96432
54077 40181 38086 23241 26600 63795 61422 40195 62571 67012
05989

Vnimaniye, rpt msg, konets



S28 - The Buzzer

Mode: USB

Frequency: 3216 & 4625 kHz

04-12, 1702 UTC	ZhUOZ 28708 APASHOKAIR 36607001
05-12, 0937 UTC	ZhUOZ 60338 VTORICHNOST' 60768642 DIODOSLOM 27921821 DAROKRON 68470176
05-12, 1058 UTC	ZhUOZ 76247 BRYeZhNOST' 93765693
05-12, 1231 UTC	ZhUOZ 84674 BURSAK 17011440
05-12, 1257 UTC	ZhUOZ 25886 BRAKOPAK 85776647
05-12, 1300 UTC	ZhUOZ 16590 DZhYeMOPONG 05600977
05-12, 1631 UTC	ZhUOZ 02106 DZhUTOMIRT 80290724
07-12, 1244 UTC	ZhUOZ 79907 KOVShODUB 83771471
07-12, 1400 UTC	ZhUOZ 80511 DIODOPIR 21432879
15-12, 0804 UTC	ZhUOZ 18826 KRYeVOShIFR 97843852
15-12, 0841 UTC	ZhUOZ 85738 YeVPATORIYa 95805744 (Female voice on background "Operative duty officer...")
15-12, 1249 UTC	ZhUOZ 82456 BAROSER 64680733
15-12, 1408 UTC	ZhUOZ 54270 VYeSTOZVON 02238893



S30 - The Pip

Modes: CW (Pip), USB (messages)

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

5448 kHz, 05-12, 1328 UTC ShchGJP TZLM FY5E F61N 37CN MUDR 7VNSHch Zh7NZh YMA5 VTH3
5448 kHz, 05-12, 1336 UTC 8S1Shch. Weather warning. "V period s 18.00 5 dekabrya do 18.00 6 dekabrya po territoriyam Karachayevo-Cherkessii, Kabardino-Balkarii, respubliki Severnaya Osetiya-Alaniya, respubliki Dagestan, respubliki Ingushetiya, Chechenskoy respubliki, Krasnodarskogo kraya v gorakh svyshe 1500 metrov lavinoopasno! "
(In the period from 18.00 on 5 December to 18.00 on 6 December avalanches in the mountains above 1500 meters in the territories of Karachay-Cherkessia, Kabardino-Balkaria, the republic of North Ossetia-Alania, Republic of Dagestan, the republic of Ingushetia, the Chechen Republic, Krasnodar Territory)

3756 kHz, 07-12, 0506 UTC	6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ
3756 kHz, 07-12, 1536 UTC	8S1Shch 71949 DZhUTOShU 80637841 (Time mark after the transmission)
3756 kHz, 07-12, 1842 UTC	TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N
3756 kHz, 15-12, 0503 UTC	ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ
3756 kHz, 15-12, 1416 UTC	8S1Shch 94836 BYeSOKOL 07383163 (Time mark after the transmission)
3756 kHz, 15-12, 1734 UTC	V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV
5448 kHz, 07-12, 1237 UTC	8S1Shch 86489 GANGKSKIJ 23135040 (Time mark after the transmission)
5448 kHz, 07-12, 1355 UTC	8S1Shch 65783 KVADRATNYJ 81317410 (Time mark after the transmission)

S32 - Squeaky Wheel



Mode: USB

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

3828 kHz, 04-12, 1636 UTC AL'FA-45 76581 ZUBOSKAL 33758503 (S30 in the background)
3828 kHz, 04-12, 1704 UTC AL'FA-45 31880 AKTUARIJ 51002537 (S30 in the background)
3828 kHz, 04-12, 1759 UTC PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37 (S30 in the background)
3828 kHz, 05-12, 1701 UTC OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37 (S30 in the background)
3828 kHz, 07-12, 1514 UTC DUBLYoR-68 STAZHER-29 STOROZh-62 YaHTA-94 RUZh'E-26 ROSA-64
3828 kHz, 07-12, 1540 UTC AL'FA-45 16803 MOROSHKA 57757151 (S30 in the background)
5473 kHz, 07-12, 0740 UTC SLIVA-94 UTYoS-94 DZhIGIT-46 FONTAN-34 ALEUT-09 PYeNZ-07
5473 kHz, 07-12, 1243 UTC AL'FA-45 10213 GORISPOLKOM 24982157
5473 kHz, 07-12, 1403 UTC AL'FA-45 86452 JODOBIMS 93342071



V02a

Dirección General de Inteligencia

Qsr711 logged V02a and comments:

“V02a continues with its madness, mixing with M08a on every single Tuesday and Thursday, only if a M08a transmission took place. Their mixer is still broken, and modulation fails a lot when both stations are fed into the transmitter. Also, All India Radio DRM on 7550 makes things harder, and some transmissions are totally unworkable due to that.

7555 kHz, 13-12, 2000 UTC, mixing with M08a. Too weak to copy

Headers: 04461 17882 21221

7555 kHz, 15-12, 2000 UTC, mixing with M08a

Headers: 82482 03122 26551

Message for 82482:

23102 5_168 22057 73165 88334 23744 76024 12743 46748 44638
71404 07444 16585 87728 22775 34684 62188 28450 50800 07851
68318 32344 56200 61778 85672 04376 45344 05565 53117 18100
82677 23338 35165 63653 48174 45704 66752 76231 63_77 17__7
86404 56668 07305 07446 21632 40070 23520 45371 42777 32654
71547 72568 67016 80352 70060 31115 04581 63544 573_2 05165
83880 65377 08605 12033 04275 46734 61482 76774 43361 43711
60133 8465_41324 27374 51332 __163 86735 85710 20241 31004
78222 05666 02456 37322 46112 52467 205_1 14451 40175 _2662
03568 8061_72206 85088 57_4_66314 88237 55323 85388 03317
77580 64826 44624 _1513 67758 23306 32875 78246 31266 56626
18138 36686 26662 _2555 53232 52558 83865 84687 01683 51764
34185 86213 10872 67634 67448 75735 78204 12665 83751 80803
67852 77852 72017 50556 17235 _____401 81083 42665 34403
08220 74861 85664 00502 55138 76156 67683 61064 71716 56477

Message for 03122:

42672 41538 72335 56221 22525 10405 87486 15501 14165 833__
_4167 55141 03037 12101 67175 32342 54123 10560 61062 57034
05316 63631 1_687 40354 86163 86_85 83558 37282 15024 84824
45168 30503 62571 06486 71013 ____3 78544 10201 15380 _____
173__1010_16535 75860 86625 05485 2282_63102 54532 08417
47781 36428 81124 71733 13111 35236 86445 41830 71455 80813

70206 41058 26701 87763 06108 613_4 05842 3_702 57028 41005
10834 11231 51344 70168 17212 54256 61307 26124 87355 20116
2_407 52555 35150 74203 65_05 35311 53043 70774 _6143 12011
_0245 63351 62885 34875 61554 63__ 61030 _5605 _46771 74772
01073 00776 52368 78216 17268 43016 03833 48785 84361 62312
56023 25405 51736 66886 65375 13135 38526 83675 20185 68705
37350 65181 43476 42150 64615 57136 54551 848__ 16687 8__38
26148 24070 16146 27001 77150 26552 48831 88367 72658 1184_
87363 5350_ 17132 64041 7_605 34600 46717 15531 67726 73155

Message for 26551:

84600 88605 13161 64871 16017 01272 70883 17085 77081 63072
_0258 50862 72223 45142 07272 72086 62820 08560 71418 78307
61141 04708 05682 75734 71266 21828 28580 32712 7_237 65126
84434 48152 40025 63157 82884 66154 11240 72468 35427 1684
37223 61376 81446 20512 23515 73382 17708 43516 14468 25365
18724 48036 16462 33161 5135_ 66557 64736 2__12 40_68 44617
22157 27506 55043 85_22 61316 53803 51637 12062 00060 62237
54457 23830 74585 20136 44858 _7741 6173_ 75035 1061_ _5434
20_72 54671 4____ 61731 34_80 85675 71023 61830 28368 50423
02234 48013 78158 73687 05082 62440 07214 85378 31508 51041
52855 63643 74637 67867 24722 221_3 71188 27311 05220 86030
__74 66847 28373 08380 61756 36840 _8165 08863 12662 61237
81311 377__65__6716 18054 25083 70213 05411 60740 82266
75443 06444 40250 12827 71278 48165 06883 44457 13824 51687
66083 05170 06370 71787 62547 32222 26582 87267 00268 43__5

Final Final Final

7555 kHz, 27-12, 2000 UTC, mixing with M08a. Too weak to copy

Headers: 55572 76212 80631

7555 kHz, 29012, 2000 UTC, mixing with M08a

Headers: 35822 56652 60081

Message for 35822:

66653 14786 64741 51137 85711 75245 31361 35835 67486 30088
82531 66674 12446 44155 35317 2635_ 63663 75617 02256 55367
33557 00____ 63577 42785 76401 757__ 66171 71866
64314 64386 53158 52264 13512 01301 63175 07132 82713 06200
04061 67385 45245 74448 84880 11846 47352 18517 71303 21821
68623 14833 36337 05867 64562 28136 07675 13385 14605 48663
15475 25120 04741 42035 35018 17341 15278 61605 43113 33464
48353 74702 66628 10013 34771 30558 88755 28303 67881 21310
62755 44644 54775 28270 01562 50380 11217 82863 77016 47800
00312 54445 57234 25338 85100 55136 33057 62245 25271 57608
37582 06816 38073 61660 60044 41138 05138 18857 12643 46730
42420 82885 12612 48474 03551 11218 43560 41051 37153 74680
12136 45235 74546 35206 50106 44388 06146 82483 25067 73464
28152 37188 32107 50761 50684 75765 37547 31631 46834 51441
08544 18017 12838 55077 82346 27366 77713 80138 81587 18010

Message for 56652:

75817 48581 61030 88276 13554 21530 83235 33017 31686 74312
85646 74613 21445 37268 82726 21480 12540 56650 26661 00581
30536 28343 52655 86105 28407 80601 54775 58812 26241 70633
82412 18402 51068 65701 30110 10042 05735 63273 24175 87228
76243 41370 81846 37300 10087 41482 61875 78208 13487 08535
06100 51406 87762 28556 11441 81672 38073 34321 85658 33560
08344 37518 74217 43447 52723 21626 14310 46702 10662 07218

51331 75210 32418 85165 61712 86330 86130 07387 41828 22174
16157 03561 01108 80186 48863 54830 16638 74408 83665 55454
18352 18303 20620 51801 58326 82428 38572 45406 26312 76530
23316 68457 70464 27114 78823 51255 11827 00225 72515 55010
14105 62645 11833 05500 43078 71027 53167 67815 82153 58545
75142 73340 73606 07064 43744 42634 34018 67537 10422 15810
64040 07426 62347 62023 01644 15247 47847 72870 83145 30430
42866 64578 65142 31560 31421 14773 45584 65350 84187 36531

Message for 60081:

18616 44642 58820 20258 82650 84244 61585 02707 05576 37802
24783 62372 66720 73564 33852 50607 05268 58317 11046 12562
68670 84634 53____0144 85408 45306 06140 45752 27405 32232
31320 55073 78462 01305 _1301 04337 04678 34177 73133 24086
07767 43835 81543 32057 32257 15314 _4641 16374 67115 63344
70384 20782 37338 61840 61827 80166 13428 32831 74702 22875
56521 27573 77536 34248 13837 61756 38878 14656 53411 56778
65652 65715 52575 62203 73354 78307 62084 51108 07152 35541
86442 17033 43063 14035 61786 28430 12877 76536 23363 07712
63583 12806 53210 85020 36051 18742 43538 48487 62005 82562
81585 37336 45533 21330 60187 33624 57386 08446 63285 78277
34518 28745 88670 15406 72851 24142 82074 00288 04882 81787
82463 05426 37807 53667 31510 21455 73267 32302 63186 70205
61181 37644 76130 62254 23883 61543 22633 71584 75182 07368
00624 63222 52752 20225 86785 31166 24673 33138 58304 66868

Final Final Final



V07

16037/14637/12137 kHz, 0100/0120/0140 UTC

661 661 661 1 278 79
75397 42395 07429 04024 61650 08398 08165 34468 72812 27137
19371 63762 48618 11293 78729 76261 33308 33742 10597 99585
53026 37930 53407 09453 23326 60004 30179 60804 54123 69147
12475 90139 55646 88079 27992 52881 56838 71476 34420 04031
33559 92233 32388 17095 33034 37350 81120 05861 94721 44125
67886 27733 50003 17077 99332 11564 53804 47345 47086 99523
43929 43399 22930 32783 88312 33324 80946 58423 39033 53240
61135 75801 32705 24899 59437 62403 84841 73919
000 000



V13 - New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái

New reported schedules. I can confirm 0500, 0600, 0700, 0800 and 1200, 1300 UTC both on 9725 kHz

0200 / 0300 UTC, 15388 kHz

0400 / 0500 / 0600 UTC, 11430 kHz

0700 / 0800 UTC, 15250 kHz

1200 / 1300 UTC, 9725 or 5995 kHz

MORSE STATIONS



MX Russian Military beacons

14401 kHz, 29-12, 0907 UTC: Beacon C on an unusual frequency //16332//13528//10872 kHz



M01a

4577 kHz, 29-12, 1553 UTC, i.p.

333 10135 10135
333 10135 10135
0 0 0



M12

13371/11571/10271 kHz, 06-12, 1400/1420/1440 UTC

352 352 352 1 8920 97 8920 97
57184 52798 99091 75259 59909 46829 74782 51102 57334 54507
67605 46402 40612 10667 68848 55981 68165 51577 31623 41627
07241 85362 97328 97019 95281 88485 61097 39788 50877 63236
94183 32251 44358 92083 76117 93714 43189 61554 29680 13599
27155 31868 76732 07783 35210 80179 67921 29587 81537 30420
21835 48540 71039 25870 22971 83431 74163 13143 78638 12387
37915 66606 84933 27251 27759 84186 75649 51590 97819 09610
82910 06306 25491 77223 83132 43834 88660 23861 67494 38284
30933 98449 54121 85824 11811 27845 77209 77903 82446 37987
24585 79166 35081 78228 62331 00488 63472
000 000

13371/11571/10271 kHz, 14-12, 1400/1420/1440 UTC

352 352 352 1 9631 51 9631 51
63633 71186 97358 45426 73047 79656 72055 95817 23023 16936
32697 46603 67514 04286 84543 32794 79550 36623 17502 32309
95397 96997 65072 39240 42101 79545 64868 70780 34979 93971
24414 26840 25979 22292 31402 85952 83458 04554 01751 20351
17517 33117 45015 87905 62544 70159 45621 65161 95675 82013
63880
000 000

5312/4512/4012 kHz, 14-12, 2200/2220/2240 UTC

350 350 350 1 5880 157 5880 157
28988 89642 07723 52944 93172 42418 98869 29611 71513 85655
12769 31038 30150 13184 05724 28903 81069 56809 59411 94736

31889 77249 45303 79996 48235 77907 55321 48907 92386 44240
02779 31569 95822 33634 34758 74446 48931 31423 82704 35631
22938 45489 00575 39643 57960 19539 94958 36800 23919 28009
82764 63958 79966 19818 66257 98262 67250 45373 39161 87732
95924 35989 85820 34982 62323 79919 97334 77369 91835 24159
21104 83418 12336 98530 05841 99454 17931 97333 52142 61626
09481 75896 15002 17588 37576 98897 49984 39199 97489 61189
34948 92017 30653 08085 03744 12405 61172 06072 39808 01375
66311 08855 08946 83309 87931 50266 56681 84012 52471 94007
04803 76184 63708 13722 82316 65400 90616 48088 20674 32322
86680 89040 27167 73843 45319 82362 87444 82032 72131 88260
81109 63482 83347 53165 63535 40030 65612 22306 93088 42180
14551 03814 68856 45582 97469 91909 84621 37986 82906 83732
84030 43800 30427 83211 48348 83466 08980
000 000

5784/7584/9184 kHz, 17-12, 0600/0620/0640 UTC

751 751 751 1 5880 157 5880 157
28988 89642 07723 52944 93172 42418 98869 29611 71513 85655
12769 31038 30150 13184 05724 28903 81069 56809 59411 94736
31889 77249 45303 79996 48235 77907 55321 48907 92386 44240
02779 31569 95822 33634 34758 74446 48931 31423 82704 35631
22938 45489 00575 39643 57960 19539 94958 36800 23919 28009
82764 63958 79966 19818 66257 98262 67250 45373 39161 87732
95924 35989 85820 34982 62323 79919 97334 77369 91835 24159
21104 83418 12336 98530 05841 99454 17931 97333 52142 61626
09481 75896 15002 17588 37576 98897 49984 39199 97489 61189
34948 92017 30653 08085 03744 12405 61172 06072 39808 01375
66311 08855 08946 83309 87931 50266 56681 84012 52471 94007
04803 76184 63708 13722 82316 65400 90616 48088 20674 32322
86680 89040 27167 73843 45319 82362 87444 82032 72131 88260
81109 63482 83347 53165 63535 40030 65612 22306 93088 42180
14551 03814 68856 45582 97469 91909 84621 37986 82906 83732
84030 43800 30427 83211 48348 83466 08980
000 000

13569/14869/16269 kHz, 18-12, 1010/1030/1050 kHz

582 582 582 1 8712 177 8712 177
47454 47661 90681 12755 00404 62667 08881 03185 54141 73477
12881 05148 35954 81933 77991 28937 49246 88295 47850 50071
48304 34600 39258 44808 88496 96882 16742 34176 22236 28624
98451 73182 88337 98392 99647 92506 35933 45936 27962 03258
87860 29198 23766 73223 69498 08304 54954 34497 15856 75398
45131 90770 01302 11317 54490 32698 74731 02538 91713 00264
13809 81641 80716 93755 97007 82644 23530 25954 34954 69385
59959 86516 87251 32354 84705 71994 02824 49535 96659 75534
60630 80935 32038 08960 04525 64321 08011 86454 90841 87512
76553 77667 57263 66690 95754 10362 59149 16931 15113 93526
23860 59279 73940 70123 51712 82086 99983 95857 14474 89824
56865 19069 21503 68760 81119 37581 82695 08691 25440 39458
65128 96344 20464 48716 16574 31745 74376 09189 89224 43558
92904 89273 89521 37932 88819 29632 10267 21071 92444 09009
35805 01817 01823 14993 47619 49133 57255 25361 86181 96742
24916 86133 78632 61354 05002 58445 80550 44163 46780 68451
03613 83067 86063 95144 03878 58460 05026 47679 35626 80834
43032 56300 04984 38053 66534 72383 41444
000 000

14493/13393/11593 kHz, 20-12, 0100/0120/0140 UTC

435 1 835 113
98605 27133 33737 06725 53278 70232 35522 23779 75659 86494
27955 60036 69999 02666 43257 54271 58386 77696 75828 91950
78604 89608 51644 18363 35664 53776 02265 14755 61256 40877
07910 71164 41043 64529 05342 32624 65945 22550 75036 17558
43959 27279 68728 72004 48454 13462 90242 83032 57971 54070
57748 97386 11848 64229 40114 35293 51819 76692 11255 01427
74856 63918 98071 15129 89277 45632 68435 12604 74272 50647
63774 46428 93550 73123 27020 93215 05022 45519 68558 95947
40702 21195 23269 96421 63755 52756 80233 87049 53932 79448
69209 60837 56718 64550 05855 33323 39437 50960 72778 22503
86071 83795 85292 78268 80814 68553 40020 70509 70969 43633
71729 28424 23111
000 000

Unscheduled transmissions, copied by Danix

20829 kHz, 22-12, 1200/1230/1300/1330/1400/1430 UTC

19034 kHz, 22-12, 1210/1240/1310/1340/1410/1440 UTC

17423 kHz, 22-12, 1220/1250/1320/1350/1420/1450 UTC

351 1 644 49
91789 87567 61961 90818 43084 24013 98808 29224 59270 10898
60934 20871 81528 83129 71166 17723 02598 17844 33908 19345
56915 21206 26309 99446 05114 41725 93254 03371 99853 72052
39510 77219 77144 05736 33881 55847 62522 00876 60911 25629
91072 00879 80741 75636 21875 53417 12116 88242 23255
000 000



M14

8116 kHz, 01-12, 1300 UTC

441 780 56 =
13752 78200 09443 84709 51544 39432 78419 50990 26577 15835
82151 55899 70535 73622 65661 69243 30972 18111 68288 26562
54795 04912 48439 96623 44513 14905 27186 43164 85671 85162
11649 85545 68914 13024 84100 88039 55116 75495 67732 32397
57017 31174 05017 53418 35798 96876 09607 42190 36036 16166
77703 46696 07474 61953 69842 24463
780 56 00000

5430 kHz, 03-12/10-12/17-12, 0800 UTC

5560 kHz, 03-12/17-12, 0900 UTC & 5552 kHz, 10-12, 0900 UTC

Note: sends 91 groups vs the announced 51

171 (R) 2222 50 50 51 51
52378 50126 2876 15057 06132 72651 8071 25375 61608 7221
83606 51026 83528 51505 72231 63881 522 0150 63217 6677
581 2020 53261 715 52781 8350 71515 5020 75225 83125
6267 8305 85561 25500 06718 53771 2831 53508 6123 3510
63558 6123 8326 61505 7226 7615 62527 75010 63381 1527
6381 53551 73062 20715 63735 650 26173 5550 80561 30352
53125 56123 87610 85171 31010 5330 80127 63530 70771 10323
73630 15372 53610 87031 52850 63781 3208 52100 0030 62721
5200 62826 61120 5622 71060 6551 2051 0067 73805 6281
3265 no end

5430 kHz, 03-12, 0828 UTC

4446 12370 22431 11580 37908 62322 46339 37580 57810 22215

8116 kHz, 06-12, 1300 UTC

441 926 51 =

39603 88139 86095 20421 80737 80470 68455 72764 30215 91951
72784 61340 69383 77338 87967 81144 01028 64596 99022 58217
35109 77330 68001 97901 48814 28801 72797 22661 94365 54704
39812 79119 53017 76909 31397 19048 58682 15343 74018 83941
39623 90206 38093 47917 51653 81709 05405 98588 01272 39512
85070
926 51 00000

8131 kHz, 08-12, 1300 UTC

441 308 57 =

73972 82918 12257 00556 67992 42359 74495 03631 51272 47754
88864 49438 60183 41974 59740 60034 80864 16979 58292 98072
35657 04671 20471 00513 70309 14136 66975 22191 90785 08470
56128 43950 22438 95369 05595 24996 90667 23690 43894 04188
46092 03134 77627 79936 82801 89284 85370 23413 23118 01153
74157 04731 67297 63427 59509 36816 31608
308 57 00000

5240 kHz, 11-12/18-12, 2300 UTC / 5825 kHz, 12-12/19-12, 0000 UTC

Note: sends 91 groups vs the announced 51

376 (R) 2222 50 50 51 51

52378 50126 2876 15057 06132 72651 8071 25375 61608 7221
83606 51026 83528 51505 72231 63881 522 0150 63217 6677
581 2020 53261 715 52781 8350 71515 5020 75225 83125
6267 8305 85561 25500 06718 53771 2831 53508 6123 3510
63558 6123 8326 61505 7226 7615 62527 75010 63381 1527
6381 53551 73062 20715 63735 650 26173 5550 80561 30352
53125 56123 87610 85171 31010 5330 80127 63530 70771 10323
73630 15372 53610 87031 52850 63781 3208 52100 0030 62721
5200 62826 61120 5622 71060 6551 2051 0067 73805 6281
3265 no end

4631 kHz, 13-12, 1820 UTC

186 (R) 021 021 77 77 Long Pause

0553 7823 10208 86750 01137 10711 235 35677 75338 07837
5672 2186 05771 5336 88185 52202 77256 56825 32138 0065
85500 57627 38151 2702 58272 37608 55660 33710 75515 8363
7161 5635 35187 83855 5313 55163 87671 32825 2076 6158
32552 235 22365 165 2516 35777 5557 52165 11371 1216
85876 1275 51517 68368 630 257 55387 17531 36386 65850
57718 2030 7031 00355 80150 5255 1051 57837 1211 52768
31732 3078 57055 5357 70557 13156 851
021 77 00000

4761 kHz, 14-12, 1920 UTC

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

8116 kHz, 13-12, 1300 UTC

441 679 52 =
23229 55347 81791 68483 25395 07720 35634 18982 91245
38415 69658 58547 69789 02220 81507 68930 12445 44479
14189 21585 33577 97547 07090 76508 23485 39453 58032
36267 37258 31946 82301 84879 07956 80147 79583 66255
57538 80943 44747 81866 03992 52360 83417 12352 88076
61065 18267 92724 68145 90211 36415 26129
679 52 00000

8116 kHz, 15-12, 1300 UTC

441 238 54 =
47030 12577 33567 28047 89439 73047 57612 54688 44463
05974 54939 23080 86516 73258 59168 96808 85950 63736
74885 75930 03668 60030 80714 56074 05382 03564 23106
41151 43929 99902 11792 64371 83091 31612 52839 97248
61365 70825 80230 51275 19096 08706 71924 01964 37442
43990 61325 89943 62586 97800 80098 78787 13640 46918
= 238 54 114 97800 80098 78787 13640 46918 = 238 54 00000
At the end, after the group count, the last 5 groups and end sequence were repeated.

8116 kHz, 20-12, 1300 UTC

441 609 58 =
80323 07796 98831 27277 85382 27981 89740 09380 21856
81061 13286 40771 61882 70276 73430 55109 17970 54240
18595 46236 92993 90663 29008 48663 01381 36029 83833
16983 84922 18413 94033 33900 71656 25636 11875 01550
51252 75939 53048 95822 65334 63363 92313 88347 36190
95017 18624 65852 82287 62443 60651 01562 94054 14236
18672 58347 68342 22126
609 58 00000

8116 kHz, 22-12, 1300 UTC

441 823 51 =
25022 57712 89996 38384 54146 22015 31379 76974 67115
95056 78099 20775 50284 97649 54410 66992 44447 82575
43234 00343 98644 97347 68732 49608 71714 85741 72711
13444 80041 20285 45816 60097 14936 82894 99452 30746
78073 35835 89362 01145 08448 50210 26798 81245 99250
84152 38235 57502 28147 27910 59554
823 51 00000

5432 kHz, 24-12, 0752 UTC

965 965

5432/5560 kHz, 24-12, 0800/0900 UTC

171 490 91
52378 90126 42876 19097 06132 72691 48071 25375 61608 72421
83606 51026 83528 91905 82231 63881 92244 05190 63217 66747
98414 20204 53261 74194 52781 84390 71515 45020 75229 83129
62467 84309 85561 29900 06718 53771 28431 53908 61234 43910
63598 61734 83264 61905 72426 76149 62527 79010 63381 19427
63841 53991 73062 20719 63735 64490 26173 45590 80961 30352
53125 56123 87610 85171 31010 53430 80127 63530 70771 10323
73630 19372 53610 87031 52890 63781 32084 52100 00340 62721
52400 62826 61120 54622 71060 64991 24051 00647 73809 62841
32465
490 91 00000

5430/5560 kHz, 31-12, 0800/0900 UTC

171 (R) 427 427 68 68
37612 80644 32250 72880 72119 55276 17439 87341 90653 40498
10100 53082 42643 61771 22098 53762 43309 87109 00538 72530
52091 63871 29445 64410 82070 51860 00340 82630 92215 42627
51161 82994 40871 21905 64420 52761 19081 74409 53801 26331
50362 77409 83210 63091 10103 62175 83630 98901 53787 62181
52760 00830 93117 71152 43871 52891 15227 26021 58901 01200
42729 87001 20940 37116 53092 26061 46671 20801
427 427 68 68 00000



M21 + variants
Russian Air Defence Forces
Во́йска ПВО Voyska PVO

4362 kHz, 05-12, 1800 UTC =10524337909316 =4052405244??00 =...50701100100 =992101??8?????
2801.5 kHz, 09-12, 1815 UTC =992114??0?????
5855.5 kHz, 11-12, 0604 UTC =990904??0????? =990905??0????? =990906??0????? =990907??0?????
2801.5 kHz, 11-12, 0917 UTC =991216??0????? =991217??0????? =991218??0????? =991219??0?????
3771.5 kHz, 11-12, 0948 UTC 9970713806441776435100080050 =01654180641530 410997384550
4349.5 kHz, 11-12, 1258 UTC =991558??0????? =991559??0????? =991600??0????? =991601??0?????
4951.5 kHz, 16-12, 1804 UTC =992106??0????? =992107??0????? =992106??0?????



M41
Russian Air Defence Forces
Во́йска ПВО Voyska PVO

7988.5 kHz, 11-12, 2307 UTC

JKHT DE DT1P K
QSA 2 QSA ? WZD QRJ ? K
R K
8YDD DE DT1P K
8YDD DE DT1P K
8YDD DE DT1P K
6SOX DE DT1P K
6SOX DE DT1P K
QSA 1 QSA ? K
R K
4ZJC DE DT1P K
4ZJC DE DT1P K

4JEEEEEE
4ZJC K
4ZJC DE DT1P K
4ZJC K
QSA 1 QSA 1 QSA ? K
QSA 1 K
R K
DOW6 DE DT1P K
DOW6 DE DT1P K



M89 - Chinese military

5083 kHz, 01-12, 1030 UTC

VV F0PQ DE FJPU K
VV F0PQ DE FJPU K
VV
VVV FJPQ DE FJPU K
VV F0PQ DE FJPU Q EEEEE QSY NR 05 K QSY NR 05 K
VV F0PQ DE FJPU K
VV F0PQ DE FJPU QSY NR 06 K
VV F0PQ DE FJPU K
VV F0PQ DE FJPU QSY NR 07 K QSY NR 07 K
VV F0PQ DE FJPU K
VV F0PQ DE FJPU K

8083 kHz, 01-12, 0356 UTC, i.p.

R RPT 65W K
R 65W BT 4NU7 AR K (Cont'd to repeat groups)
HR 7G NR 000. CK 60 24 1201 1156 RMKS RMKS CY28 TO CY 2. K
R GA K (Other station also on this frequency)
R R BT BT T643 4AD7 7UDA N5D3 43D5 (Cont'd)
AR K
R R PT 01W K
R RPT U643 AR K
R QSL 1200 K
R R
SK SK
VA SK

9044 kHz, 01-12, 0304 UTC, i.p.

ND4U TDA3 D7U6 UA4D 4376 (Cont'd)
AR K
R QSL 1133 K (Other station also on this frequency)
7G GA K
R AS
R HR 7G GA K
K
7G NR 10. CK 61 18 1201 111. K
R GA
= = 3..7 NA4T 3U77 7A7A (Cont'd)
AR K
R RPT EEEEE
R AS
K
R R

R QSL 1140 K
R HR 7G
GA K
R HR 7G GA
NR 2265 CK 61 27 1201 1110 RMKS CY21 TO CY29 K
R GA K
= AU5 36NA DTU3 5436 7AU. U54A NA6T DA7N (Cont'd)
AR K
R QSL 1147 K
R U E7G GA K
R HR 7G GA K
R
7G NR 109 CK 61 18 1201 1110 K
R GA
= = DTU5 76U. 35TD TAD4 7T65 57DT 647D (Cont'd)
AR K
R QSL 1151 K
R
SK HW K
TRBOS U EEEEE
SK
R SK
SK

6093//10414 kHz, 01-12, 0304 UTC, i.p.

746D T647 DTUA D76T 7TD6 (Cont'd)
III = 5NU7 57DT (Cont'd)
III = 653T AR
MSG NR 002 CK 301 70 1201 1100 =
UTD7 N7U7 N57N 7364 7U45 DT7A NU3T UNA6 TT6D TT3A (Cont'd)
III = 653T AR

3832 kHz, 02-12, 1820 UTC, i.p.

R 02W 467A 467A K
R 65W 66U7 66U7 K
R 82W TNAD TNAD K
R 87W UD55 UD55 K
R 19W = 4DAD 4DAD K
R 31W 47U5 47U5 K
R 69W 37NN 37NN K
RPT K (1823z)
R 68W A7NU A7NU K
R 59W = 3374 3374 K
R 63W = 56UA 56UA K
RPT K
R GA K
RPT RMKS K
GA GA K (
VV 5GUK DE QCR5 K
U QSB QSY NR 32 NR 32 K
U QSNB QSY NR 32 NR 32 K
VV 5GUK DE QCR5 U QSB QSY NR 32 NR 43 EEEEEEE UQSB QSY NR 32 NR 32 K
DE QCR5 GA GA K
R FM 01W GA GA K
FM 01W GA K
RPT 57W K (Asks for repeats)
R QSL 0245 K
SK

6093//10414 kHz, 02-12, 0825 UTC, i.p.

UT4D 6UN3 43T5 A6TD 3T3 III = 37N3
V NG3Y NG3Y NG3Y DE 2QLC 2QLS

Note from JPL: The more I monitor this roundslip, the more convinced I am that this station is associated with the DP91 family. Like DP91, 2QLC is // on two frequencies but operating independently. Both stations were sending a message at the same time. However, on 6093 the message was being sent fast, while on 10414, the message was sent very slow. When we look at the end of the messages sent on 6093 and 10414, we noticed that a different message was being sent on both frequencies. When returning to R/S the letter A is sent, then NG3Y and then NG3Y (does not send the DE). Then the R/S is sent as per normal with the DE between the two call signs. This same format was used by DP91 except that the letter E was sent before the letter A. While monitoring the R/S on both 6093 and 10414, they were not synchronized.

9044 kHz, 03-12, 0308 UTC, i.p.

PTII DE KSGK K
PTII DE KSGK K
VV PTII DE KSGK K
VV PTII DE KSGK K
R R U R QSA ? K
VVV DE PTII K (Both stations on this frequency)
R R Z EEEEE R R QSA 3 K
R R QSA 4 K
R R R GT K
R R OK
R R IEM EEEEE
IEC = 8640 AR K
R R IEC = 8640 AR K
R = 913 EEE
= 9131 AR K
R R U NN K
NR 1118 K
R RPT K
NR N 1118 K
R R HR NR 105 K
R R OK U MSG GA
R R
HR MSG GA
NR 1325 CK 61 24 1203 1110 RMKS CY27 TO CY28 K K
R OK GA
R =
4D3T 375T 3NAD 3N4T 4N57 3TU7 4.37 3D4T (Cont'd) AR
R QSL 1119 K
R GA
HR 7G GA
NR
GA
AS AS
K
NR 004U CK
NR NR 0042 CK 61 24 1203 1110 RMKS CY 28 TO CY27
R GA K
T6T6 43UN 6A3U 4T4D 46AU (Cont'd)
AR
R QSL 1124 K
7G GA K
R R 7G GA
NR 1326 CK 61 24 1203 1110 RMKS CY27 TO CY28 =
GA
= UD46 U6AT U63N 464T 4T3D (Cont'd) AR
R R QSL 1127 K
R GA K

7G GA
NR 0043 CK 61 24 1203 1110 RMKS CY28 TO CY 27 K
R R GA K
= 5D64 7DN4 A33D 7DA. UD5A (Cont'd)

6093//10414 kHz, 03-12, 0245 UTC, i.p.

5ANA D7DT NAD3 TNU3 ...
III = 454T 7T36 354D 4T53 ADTU (Cont'd)
III = 5NU7 57DT 3476 5TAD (Cont'd)
III = 653T AR
E A NG3Y KLC V EEE A NG3Y 2QLC V

5555 kHz, 04-12, 1739 UTC, i.p.

VV VXL1 DE XIW2 K
R VXL DE .IA2 R QSA 2 QSA ? K
AGN (Both stations on this frequency)
VV VXL1 DE XIW2
R BE Q9 DE ISL9 R QSA 2 QSA ? K
R BIQ9 DE ISL9 R QSA 2 QSA ? K
QSA 2 HW 7G GA
R GA K
HR HR FF NR 001/EX ..1 .. RMKS 41.9 TO 6199 =
A2B7/G8CJW ..
AGN
F GA
NR 001/EX 0145 RMKS 4199 TO 6199 =
A2B7/G8CJ AR K
R RPT
WTO2W K
R ... 1W TO 2W =
A2B7/G8CJ AR K
R RPT III EEE R RPT 2W K
R R RPT 2W C1G8 CJG8
R QSL 01.6 K
R U F GA K
R HR F GA
F NR 001/EX 01.6 RMKS 6199 TO 499D EEEEE
= AF6L/SQ7. AR K (1747z)
F NR 001/EX 016 RMKS 6199 TO 499.
CBL/SQ7A AR QSL ? K
R RPT RMKS K
NIL SK
R NIL GB K
R RPT RMSK 6199 TO 4199 K
R QSL 0.... K
R HR WK NR 0030 K
AGN
BIQ9 DE ISL9 R QSA 2 QSA ? K
R HR F GA
F GA
R HR F GA
F NR 001/EX 01.5 RMKS 4199 TO 6199 =
A2M EEEEE C. BH AR QSL ? K
MSG GA

6093//10414 kHz, 05-12, 0922 UTC, i.p.

A4D6 UTAN N4UT T6N AR TIME
RN D UQ 4ATN SAJ ETD Y WTNSTUNTELTIRIGIA R.. NA (Appears to be a bunch of letters)
NG WIBDM NIL NW AS AA AS DG TAEFX ILTCI UABEN TEN DIN (Cont'd)
A NG3Y2QLC

Note: Although both 6093 and 10414 in traffic, messages ended at different time.

3777//4532 kHz, 06-12, 1641 UTC, i.p.

7D66 4AA7 T643 7AU5 ... AR
CQ 06/9202 2713 6508 MSG
NR 1208 CK 93 40 1207 0040 RMKS 6232 TO 9202 2713 6508 =
44T3 T7D3 6T6U UATT T5DN T4DA 7673 6D3T T3T3 TTTU T..4 (Cont'd)
AR

3777//4532 kHz, 06-12, 1641 UTC, i.p.

7D66 4AA7 T643 7AU5 (Cont'd) AR
CQ 06/9202 2713 6508 MSG (T=0)
NR 1208 CK 93 40 1207 0040 RMKS 6232 TO 9202 2713 6508 =
44T3 T7D3 6T6U UATT T5DN T4DA 7673 6D3T T3T3 TTTU T..4 (Cont'd) AR

3699 kHz, 07-12, 1701 UTC, i.p.

N7AU D67U 5773 UNAU 7TDT UAU4 44A4 K
R R RPT 40W = = UT6T K
R RPT 41W = = AD63 AD63 K
R GA

5477 kHz, 07-12, 1057 UTC, i.p.

HR F GA K
HR F GA F GA
FF NR 2613/EX 19.1 RMKS CQ = =
SNF1/WXT2 AR
QSL 19.3 K (Other station also on this frequency)
HR GA
NR 1614 CK 200 47 1207 1900 RMKS CQ = =
4NAU A4U7 6TA4 U75T NTA3 436A (Cont'd)
AR AR
HR WK NR 2703
LL TO V31035 R LLLLL SK SK GB GB

4275 kHz, 08-12, 1055 UTC

UD47 76U3 ANDA 7UD7 4TNU 57D3 AR
OK QSL 1854 K
R U MGS GA K
NR 7NN
N R 208/CCK CK 1. 88 1208 1855 RMKS .2.9 EEEE RMKS 82.. TO 828. CK
R GA K
4557 AD4D NU45 UT47 (Cont'd)
AR
R QSL 1850 K
OK NIL SK GB
NIL SK GB

6441 kHz, 08-12, 0149 UTC

CK 29 24 1208 0915 RMKS 6471 TO 6515 K K
GA RPT RMSK K (Other station also on this frequency)
OK RMKS 6515 TO 6471 K
6536 5UUN 3D57 T4DU 4D5D 534A (Cont'd)

8051 kHz, 08-12, 0210 UTC

N4N3 U7NA 63D5 6A53 3UTA 573A 356D AR K K
RR RPT 38W K
R R RPT 27W BT NA7U AR K
R RPT 39W K
R R RPT 09W BT TUN5 AR K (Cont'd to repeat groups)
R QSL 1001
R QSL 1013 K
R R SK
R R NR 1485 CK 61 24 1208 0930 RMKS CY76 TO CY35 K
R AS
R R RPT PBL 5 RPT PBC K K
HR 7G AGN =
NR 1485 CK 61 24 1208 0930 RMKS CY76 TO CY35 K
R R GA
= UD46 U6AT U63N 564T 5T36 463T 4N3D 473T AN4D 365N (Cont'd)

4003//4859 kHz, 09-12, 1523 UTC

43U3 375D 7A4D 7U54

III = 3UAT AR

E A NG3Y 2QLC V

Note: Although // with 4895, message on 4859 finished 2 minutes later than the one on 4003. Unable to determine if same message was being sent on both frequencies. Previously noted different messages being sent.

4003//4859 kHz, 13-12, 2243 UTC, i.p.

A43D 6547 67AU UD64 (Cont'd)

III = 3DNT DU36 4UAD N7AT (Cont'd)

III = ND3T T756 UT7D D3UT (Cont'd)

III = D6UA AR

E A NG3Y 2QLC V

8045 kHz, 13-12, 0927 UTC, i.p.

CK 61 24 0212? 23E 1453 K O RMSK T

RMKS K

S N

RMKS CQ AR K

YK ?? T AR K AR K X =

N57/1661 CK 61 24 1213 014 =

3CAI AR K CY

D =

N57T 63N5 N57U 63N5 75D4 T4D5 DANT AN3D 3D5T (Cont'd)

NR NR NR 0 NR

NR 045U CK 6A 24 1213 1500 1500 K DM NWM KS SX73TO SE

EEEE I EEEEE RMKS SX73 TTM IE ? 7D L CK K CK CK RT RK045U C

NR NR 0452 CK 6A 0 EEEEE CK 61 2 EEEEE 24 T 1213 EEEEE

1213 1500 RMKS ... SEXB3TO SX7D F YDE YK YD =

5NT5 T6ND N474 U7D5 T77T 7AN3 (Cont'd)

NR 0452 CK 6A 2 R

NR 0452 CK 62 24 1213 1500 RMKS SSX73 III SX RMKS SXGS SX.3 TO SX7.. 77 TT GSX77

3333 kHz, 20-12, 1236 UTC

F NR 062/EX TIME 2027 RMKS = 2999 131 TO 2999 134 AR =

CWA/G7 AR K

R GA GA

R = R =

VVV VVV VVV KLMM KLMM KLMM DE DE LCBD LCBD LCBD CLBD

QSA 3 QSA ? K

R QSA 2

R QSL 2036 2036 K

R MSG MSG NR 060 CK 99 65 1220 2037 RMKS = 2999131 TO EEEEE

MSG MSG NR 063 CK 99 65 1220 2037 RMKS = 2999 134 AR
K K
= = U3EA 44NU UA3D 6U34 (Cont'd) AR
OK E OK

3777//4532 kHz, 20-12, 2044 UTC, i.p.

TNDA 73UU U667 N436 N7TN ... AR
CQ 06 /2742 6680 6902 MSG
NR 1229 CK 93 40 1221 0440 RMKS 6242 TO 2742 6680 6902
A7DU 376A U6U6 5T5N U343 T4T. 7DUA 344T T3T3 TT5D (Cont'd) AR

8043 kHz, 20-12, 0342 UTC, i.p.

NR 1896 CK 61 24 1220 1100 RMKS WF65 TO WF68 K
R GA (Other station also on this frequency)
GA = =
NA65 N465 7UD5 7AD5 (Cont'd) AR K K
QSL 1146 K
R RPT GA
NR NR 0291 CK 61 24 1220 1110 RMKS XL04 TO XL01 K K
RPT R RPT
NR NR 0291 CK 61 24 1220 1110 K K
R R RPT K
NR 0291 K
GA
TT = =
AD3N TA6U A764 74AU 46TD 6UNA 76T3 7A4D TUDA TT3D (Cont'd) AR AR
AS
RPT 27W
BT U37A AR K
R RPT 38W
= AN35 AR K (Cont'd repeat groups)
R QSL 1158
R R SK SK SK

8056 kHz, 20-12, 0339 UTC, i.p.

F NR 059/EX TIME 1147 =
LDOE/UR BT LDOE/UR
FFF NR 059/EX TIME 1147 =
LDOE BT UR BT LDOE/UR =
LDOE/UR BT LDOE/UR =
LDOE/UR AR SK SK SK

8045 kHz, 21-12, 0343 UTC, i.p.

T756 TND5 A6U4 N3TU T635 ... AR K
HR QSL 1146 K (Other station also on this frequency)
R R HR MSG GA
NR 0577 CK 61 24 1221 1110 RMKS WF61 TO WF62 K
R GA K
R =
5UA5 76AU A57U N65A 5U7N 65UD (Cont'd) AR K
R QSL 1153 K
R U 7G GA K
R R NR 0347 CK 62 18 1221 1110 RMKS WF62 TO WF61 K
R RPT K
R NR 0347 CK 62 18 1221 1110 RMKS WF62 TO WF61 K
R GA K
R =
4.57 U36D 4N3T ADN5 U4T3 TA65 57TD NT54 D36N (Cont'd) AR K
R QSL 11.. K

3203 kHz, 22-12, 1405 UTC, i.p.

RPT 15W K
R R GA
R R RPT 40W K
R R 51W GA GA
R RPT 60W TO 61W K
R RPT 66W TO 67W
R RPT 80W K
R RPT 80W K
RR GA GA
RR RPT 91W TO 92W K
R RPT 1P 91W TO 92W K
R R RPT 1P 91W TO 92W K
R R RPT 96W K
R QSL QSL 2219 K
R R AS AS
HR MSG GA K
MSG NR 01 CK 111 29 1222 2130 RMKS 5568 TO 9808 AR K
R R =
5A73 5AD6 U654 A6T6 3A47 A3TA UD4U AT54 T4UT TTTA 4UUU (Cont'd)

3383 kHz, 22-12, 1352 UTC, i.p.

VV TZG3 DE KGPJ K
R QSA 4 K (Other station on this frequency but mostly unreadable)
R QSA . K
R IEC = 4664 AR K
R HR 7G GA K
OK GA
7G NR 003/CCK CK 19 11122 2 2.. RMKS 1298 TO 1875 K
R GA
= 6A5D 546D 7TAN T654 TUAD D37U 4NT3 44ND (Cont'd) AR K
RPT 1W = 6A5D K
RPT 4W = T653 K
R U 7G GA K
U 7G GA K
R GA

3401 kHz, 22-12, 1342 UTC, i.p.

T3N5 4TNA TD3U NDU A (cont'd)
III = U3TN 7N35 U6A4 (Cont'd)
AR QSL ?
R U GA K
3 3 3 3
R QSL 2149 QSL 2149 K
R SK SK SK

3777//4532 kHz, 22-12, 2210 UTC

V M8JF (x3) DE RIS9 (x2)
CQ 06 /2772 6982 MSG
NR 1232 CK 97 40 1223 0610 RMKS 6232 TO 2772 6982 =
DAU7 4A6D 7T3U AD5T UT57 T4TA 6D4T 6ADN T3T3 TT63 7A33 (Cont'd) AR
(Repeats message)

4003//4859 kHz, 22-12, 1320 UTC, i.p.

N356 d5a3 63ND N465 7U37 (Cont'd)
III TU3A (
E E A NG3Y 2QLC V

5081 kHz, 22-12, 0957 UTC, i.p.

K
R U MSG GA
R QSL 1803 QSL 1803 K
R 7G
NR 2157 CK 120 60 1222 1750 RMKS 3173535 TO 3173636 =
75UN D4U3 4A53 N75U (Cont'd)
AR QSL ? K
R U 7G GA
R QSL 1816 QSL 1816 K
R 7G
NR 2158 CK 120 91 1222 1750 RMKS 3173535 TO 3173636 =
3T7D UU5D 6D75 TD37 UDA5 54D6 U4DA (Cont'd) AR
... 115W = 6790 6790 AR QSL ? K
R U MSG GA
R QSL 1829 1829 K
R MSG
NR 2159 CK 120 83 1222 1750 RMKS 3163535 TO 3173636 =
DUN6 N5U3 D6TU U6DN 53NU (Cont'd)

5158 kHz, 22-12, 0936 UTC, i.p.

V UA7D
DE BGSB
R QSA 1
R QSA
R NIL SK GB
E V UA7D
E R QSA 1
E R NIL SK
E GB
V UA7D
DE 6TTC
R QSA 2
DE
QSA 2
R NIL SK
R GB
DE L..4
R R QSA 1
QSA 1
N NIL SK GB
V UA7D DE 6TTC
R QSA 1
NIL SK
GB
V UA7D DE 6TTC
R QSA
R QSA 2
R NIL SK
R GB
E
VV UA7D UA7D DE 9JAV 9JAV 9JAV VVV
UA7D UA7D DE 9JAV 9JAV 9JAV
E UA7D QSA 1 QSA ? K
E .. 4298 AR
E R HR 7G GA Y W.
E NR 354/CCK CK 199 61 1222 1300 RMKS =
9303 TO 4343/9833/9883/9363/9393/9882/9306/9853/9323/9304 AR

6093//10414 kHz, 22-12, 0842 UTC, i.p.

TTTA A6ND 746. .3UA N55A 343d (Cont'd)

III = TND6 (Cont'd)

III = D457 47A3 46U7 NU7A (Cont'd)

III = AUAD

A NGY E A NQ E NG3Y 2QPC E A NG3Y 2QLC V

6268 kHz, 22-12, 0858 UTC

5T74 UDA5 ANT7 3DAN 5T7N (Cont'd) AR

VV J7ZL J7ZL DE I2GH I2GH K

VV J7ZL J7ZL DE I2GH I2GH K

R RPT K

VV J7ZL J7ZL DE I2GH I2GH K

R RPT K. R RPT K

VV J7ZL J7ZL DE I2GH I2GH K

R QSY TO HR FREQ KR QSY TO HR FREQ R QSY TO HR FREQ K

QSY TO HR R III M III

VV J7ZL J7ZL DE I2GH IE K

VV J7ZL J7ZL DE I2GH I2GH QSY TO HR FREQ QSY TO HR QSY TO HR FREQ

R. .FF DE 3RGD 3RGD (Other station now on this frequency)

R KR2 QSA ? K

R QSA 2 QSL ? K

R K. .

R QSL ..13 HR WK NR 31 K

R RPT K

R QSL 1.13 HR WK NR 31 K

R RPT K

QSL 1713 HR WK NR 31 K

R RPT K

R QSL 1713 HR WK NR 31 K

R RPT K

R QSL 1714 HR WK NR 31 K

8051 kHz, 22-12, 0034 UTC, i.p.

NR 1960/EX 0833 =

E9D3/C100 AR

NR 1960/EX 0833 =

E9D3/D100 AR

NR 1960/EX 0833 =

E9D3/C100 AR QSY 82 QSY 82 VVV

8060 kHz, 22-12, 0058 UTC

V M8JF (x3) DE RIS9 (x2)

UGT COMM = 025/6932/6232/12/22/0920/271/A AR

UGT COMM = 025/6932/6232/12/22/0920/271/A AR

Note: Always sent by hand at first, then repeated by machine.

8060 kHz, 22-12, 0106 UTC

V M8JF (x3) DE RIS9 (x2)

UGT COMM = 146/6932/4/8848/8 AR

UGT COMM = 146/6932/4/8848/8 AR

8075 kHz, 22-12, 0118 UTC, i.p.

VV TYLQ QSA 3 K

QSY IEC BT 8745 AR K

= 1253 AR K

R EE .. (All stations on this frequency)

R NR 108 K

OK

VV HBYX HCYX K

VV HCYH HGYH K
VV PLGF PRLGF K
VV BVJT BVJT K
VV HCYH HCYH K
R R DE T4RY YHCY YHCYH K
R R QSA 3 K
R QSA 1 NR ? K
NR 3657 K
R PT K
R NR 360 EEE NR 3657 K
R
R R HR IS EPXD HR IS EPXD K
HR ISEPXH HR IS EPXD EPXD QSA 2 QSA ? K
VV HR FF F NR 1969/EX 0822 =
D9W3/HHJ4 AR
NR 1969/EX 0922 =
D9W3/SHJ4 AR
VVV EPXD E GEXH K
R R QSL 0924 K
R OK
VV TYLQ TYLQ K
R QSL 0925 K
VV ROK
VVV H.XY HBXY K
R R DE 4RYH HCYH YCYH K
QSL ? K
R QSL 0924 A K
R OK
VV EGLG FX K
VV PLGF K
VV BVJT BVJT K
R QSL 0924 K
R OK
VV EE PKBK
RR QSL 0923 K
OK
VV HJAZ K
R QSL 0924 K
R OK
VV HR 7G GA
NR 1970 66. 24 1222 0900 RMKS BQ =
N3T5 7465 73T5 6475 N465 74N5 N37A NA75 D574 DEAT5 NUD4 (Cont'd)
AR
VV EPXD EPXD K
R QSL 0931 K
R NR ? K
R NR 171 K
R
VVV TYLQ TYLQ K
R QSL 0930 K
R HR
VV HCYH HCYH K
VV HBXX HBYY K
R R QSL 0929 K
NR ? K NR ? K
VV PLGF PLGF K
VV BVJT BVJT K
R RPT 32W K
QSL ? K
R QSL 0933 K

R NR ? K
VV IFKB K
R R QSL 0930 K
R OK
VV HJAZ HJAZ K
R QSL 0930 K
R OK SK SK SK
VV PXDE PXDE MARM MARM K
R R QSA 2 K
SQSL R QSA 2
N 105 NR ? K
R HR NR 171 K
R HR 7G GA K
R GA
HR 7G GA
NR 1971 CK 61 24 1222 0930 RMKS
R GA
= UD46 UD4N U6A7 363T 464D 4TUD 47A6 47UT UN36 (Cont'd) AR K
R QSL 0940 K
R U GA K
HR 7G GA ?
HR MSG GA HW ? K
R GA K
NR NR 1229 CK 61 AD AUU TN3T K
R GA = =
TD7N 437T A4N6 DUDU 463N 4N45 643T (Cont'd) AR
R QSL 0945 K
OK HR 7. K MR GA K
R GA K
R HR 7G GA
NR 19726 61 24 1222 0930 RMKS KG84 TO KG89 K
GA
R =
56UT 5DAT A657 464T UD4T 473D (Cont'd) AR K
R QSL 0950 K
R U GA K
U GA K
HR 7G GA
NR NR 1230 CK 61 24 AUUU TN3T K
R GA K
R = =
AN74 ND3A 645U 3UTN 37U5 DUNT NU57 5U43 TUN5 TTT7 (Cont'd) AR K
R QSL 0955 K
R OK K
R GA
R GA K
HR 7G GA
NR 1973 CK 61 24 1222 0930 RMKS KG84 TO KG 89 K
R GA
R = =
64N5 N564 D4N4 7U74 DU74 D36U 73D4 6375 T463 D47U 63NA (Cont'd) AR K
R RPT 61W K
R RPT 61W = DUT4 AR K
R QRT K
R EGTK
R RPT K
R QTB K
R RPT PBL CK K
R RPT PBL CK K
CK 61 K

R AS AS
S QSL ?
M R R R QSL 1005 K
R U GA K
R R HR 7G GA
NR NR NR 1231 CK 61 24 AUUU TN3T K
654N ND6U DT74 T36U 57AU (Cont'd)
AR K
R RPT 11W K
= DT63 AR
R RPT 54W K
= = DA53 AR
R RPT 55W K
= DU5A AR
R QSL 1009 K
R OK K
R SK SK SK SK

8075 kHz, 22-12, 0331 UTC, i.p.

3UTT 36U7 4AT5 U73D T4A3 AR K
R R QSL 1013 K
R U MSG GA K
R R NR 0395 CK 61 24 1212 1119 RMKS KG84 TO KG85 K
R GA K
R R AS AS
= UNA7 55NN DN3T (Cont'd) AR K
R QSL 1143 K
R GA K
R AS
R NR NR 0367 CK 63 18 1222 1110 RMKK KG85 TO KG84 K
R R GA K
R =
4T46 TU4A 6DTN 5T7N N4UA A7T4 3UN6 (Cont'd) AR K
R RPT 08W TO 10W K
R RPT K
RPT 08W TO 10W K
R RPT = D3U5 D4N4 DU45 AR K
R R QSL 1146 K
R SK SK SK SK

8083 kHz, 22-12, 0348 UTC, i.p.

VV HCYYK
NR 1970 CK 61 24 1222 1110 =
5 VV C VV HCY
VV HCYX
R RPT 24W. R RPT 24W = NUD4 AR K
R RPT 54W K
R RPT = D365 AR K
QSL 1149 K
R GA K
HR 7G GA K
R RPT K
NR NR 0324 CK 61 24 1222 1110 RMKS KG81 TO KG83 K
R GA K
= = 3U64 N57A AN6U 6D7N 3U54 U43A 7N5D A6T3 TUN4 TTAD 4DTU (Cont'd) AR K
R QSL 1152 K
R QSL 1153 K
OK OK
R
NR ... CK 61 24 1222 1110 RMKS KG83 TO KG81 K

R GA
R =
DU7T 4D3T 4N57 463T ANU7 (Cont'd)
AS AS
R AS

8148 kHz, 22-12, 0039 UTC, i.p.

FF NR 196/EX 0839 =
T3Y6/HSA4 AR NR 1962/EX 0839 =
T3Y6/HSA4 AR
NR 1962/EX 0839 =
T3Y6/HSA4 AR QSY 84 QSY 84 VVV



M95

4242 kHz, 02-12, 0845 UTC, i.p.

MSG GA CY NR
NR 1001 CK 100 3. R 22217.. RMKS 8936784 RMKS 892 EEE RMKS 89.6 . 4 TO 893... =
7NA4 A6.U 7DU ... (Cont'd)
AR AR AR AR
05 05 05 005
VVV MSG
VV 7G GA
NR 1001 CK 50 212. 20 70 RMKS .00..1. 02
NR 1001 CK 50 52 1202 1500 RMKS 1001 TO 1002 =
STOW JYP. NIE. QAND JGM. .UE. GITQ LM.. N.Y. (Cont'd)
(Unable to copy any longer due to digital mode that came up on top of this station - 0900z)

4243//9054 kHz, 02-12, 1147 UTC, i.p.

HR 7G TOYR PSE CY
NR 066 CK 17 35 1202 1507 =
5TD UTT TTU 3U6 3A4 356 4AA U7U N4A 445
3DA TTU TT3 773 446 3DU 4D3 AR
7G AGN
NR 006 CK 17 35 1202 1507 =
5TD UTT TTU (Repeats message) AR
A HR 7G GA
NR 04 CK 110 35 1202 1557 =
UTU TTU 3U6 3A4 TTU N44 TT3 773 35A N3D (Cont'd) AR
7G AGN
NR 04 CK 110 35 1202 1557 =
UTU TTU 3U6 (Repeats message) AR
A HR 7G GA
NR 007 CK 16 35 1202 1619 =
UT5 TTU 3U6 3A4 TTA TTU TTE 773 356 4AA
446 467 4D6 N3D 4D3 3DU AR
7G AGN
NR 007 CK 16 35 1202 1619 =
UT5 TTU 3U6 3A4 TTA TTU TT3 773 356 4AA
446 467 4D6 N3D 4D3 3DU AR
A HR UP SB WK

4283//7553 kHz, 02-12, 0915 kHz

V BNEC (x3) DE XSV70 (x2)
HR MSG TOYR PSE CY
NR 1097 CK 103 35 1202 1616
5A7 UT3 TTU 3U6 3A4 TT4 773 353 4AA (Cont'd)
AGN
NR 1097 CK 103 35 1202 1616
5A7 UT3 TTU 3U6 3A4 TT4 773 353 4AA (Cont'd)
III 3D5 N3D 3D3
A HR MSG GA
NR 1098 CK 183 35 1202 1616
5A7 UT3 TTU 3U6 TT4 773 3AD 354 373 (Cont'd)
MSG AGN
NR 1098 CK 183 35 1202 1616
5A7 UT3 TTU 3U6 TT4 773 3AD 354 373 N3D 353 (Cont'd)
A HR MSG GA
NR 1096 CK 120 35 1202 0705
5A7 UT3 TTU 3U4 3A4 TT4 773 353 U46 35A (Cont'd)
MAG AGN
NR 1096 CK 120 35 1202 0705
5A7 UT3 TTU 3U4 3A4 TT4 773 353 U46 35A (Cont'd)
ZNN SK

9054 kHz, 03-12, 0300 UTC, i.p.

N34 446 4D6 3D4 N3D 3DU AR
MSG AGN
NR 009 CK 47 35 1203 1032 =
UT5 TT3 3U5 3AN TTA TTU TT3 773 3U7 (Cont'd) AR
A HR UP SB WK AR

4283//7553 kHz, 05-12, 0914 UTC

V BNEC (x3) DE XSV70 (x2)
HR MSG TO YR PSE CY
NR .4 CK .. 49 1205 1700
..N ... (Cont'd)
NR .4 CK .5 49 1205 1700
A.N AAN U76 76N 6A. (Cont'd)
7G GA
NR 1106 CK 149 35 1205 1527
H.7 UT3 TT5 3U6 3A4 (Cont'd)

4243//9054 kHz, 06-12, 1208 UTC, i.p.

354 N3D 353 4TA 447 7A4 3DE AR
A HR 7G GA
NR 001. CK 24 35 1UT6 ..05 =
.5T TT3 3U T53 A4T TATTU TT3 773 (Cont'd) AR
7G AGN
NR 0109 CK 24 35 AU ... BT (Cont'd - running letters/groups together) AR
A HR UP SB WK

4364//8073 kHz, 06-12, 1159 UTC, i.p.

NN3 44D 4D6 4DT 4D3 AR
A HR MSG AGN
NR 1110 CK 42 35 1206 155 =
TAU N5U TT6 N53 TAD N54 7TT TT5 746 7T5 (Cont'd) AR

4243//9054 kHz, 06-12, 1148 UTC

V A = HR MSG TOYR PSE CY
NR 076 CK 34 35 1207 1524 =
5TD UTT TT7 3U6 7TA N44 3A4 35U N3D 353 (Cont'd) AR
A HR MSG GA
NR 14 CK 192 35 1207 1557 =
UTU TT7 3U6 3A4 TTU 773 357 336 N3U 373 (Cont'd)

4364//8073 kHz, 07-12, 1139 UTC

V BNGC (x3) DE XSV85 (x2)
HR 7GS GA PSE CY
NR 1113 CK 36 35 1207 1528 =
TAU N5U TT7 N54 7TT TT7 746 7T5 77T (Cont'd) AR
A HR 7G
A HR 7G GA
NR 1114 CK 228 35 1207 1532 =
TT7 U73 U6. 3AN (Cont'd)

4243//9054 kHz, 08-12, 1156 UTC, i.p.

773 35A U4T 353 4TA 447 77A AR
7G AGN
NR 16 CK 165 35 1208 1633 =
UTU TTD 3U6 3A4 7TU 7TA 7T7 (Cont'd)

4364//8064 kHz, 08-12, 1138 UTC

V BNGC (x3) DE XSV85 (x2)
4DT 4D5 TUA 773 353 (Cont'd) AR
A HR 7G GA
NR 1118 CK 26 35 120D8 1544D =
TAU N5U TTD N53 TAD N54 7TT TTN (Cont'd) AR AR

4243//9054 kHz, 09-12, 1152 UTC, i.p

A HR MSG GA
NR 031 CK 15 35 A209 A..N
UT5 TTN 3U6 3A4 TTA TTU TT3 773 35U U4T
353 4UT 444 4D6 3DA AR
NR 18 CK 105 A5T4
UTU TTN 3U6 (Cont'd - running letters groups together) AR
MSG AGN
NR 18 CK 105 35 AUTT A. A5T... (Cont'd) AR
A HR CW WK

8073 kHz, 09-12, 1136 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 1121 CK 258 35 1209 1540 =
TTN 3U6 3AN 3U7 TAU 773 (Cont'd)

4243//9054 kHz, 10-12, 2230 UTC, i.p.

TOYR PSE CY
NR 035 CK 19 35 1211 0622 =
UT5 TAA 3U4 3A4 TTA TTU TT3 773 356 4AA
444 34U 446 4D6 N3D 4D3 3DA N3D 3DU AR
A HR UP SB WK AR

4243k//9054 kHz, 10-12, 2347 UTC

V HR 7G TOYR PSE CY
NR 035 CK 19 35 1211 0622
UT5 TAA 3U4 3A4 TTA TTU TT3 773 356 4AA
445 34U 446 4D6 N3D4 D33 DAN 3DU AR
7G AGN
NR 035 CK 19 35 1211 0622 =
UT5 TAA (Repeats message) AR
A HR 7G GA
NR 083 CK 17 35 1211 0636 =
5TD UTT TAA 3U4 3A4 356 4TN U7U N4A 444
3DA TTU TT3 773 435 3DU 4D3 AR
7G AGN
NR 083 CK 17 35 1211 0636 =
5TD UTT TAA (Repeats message) AR
A HR 7G GA
NR 21 CK 056 35 1211 0705
UTU TAA 3U4 3A4 TTU 773 35A N3D (Cont'd) AR
7G AGN
NR 21 CK 056 35 1211 0705 =
UTU TAA 3U4 TTU 773 (Cont'd - repeat message) AR
A HR UP SB WK

4243//9054 kHz, 11-12, 1148 UTC

VV VV VV VV HR MSG TOYR PSE CY
NR 084 CK 22 35 1211 1516 =
5TD UTT TAA 3U6 3A4 35U N3D 353 365 4TN
N3D 4TA U7U N4A 444 3DA TTU TT3 773 435
3DU 4D3 AR
MSG AGN
NR 084 CK 22 35 1211 1516 =
5TD UTT TAA (Repeats message) AR
A HR MSG GA
NR 22 CK 164 35 1211 1620 =
UTU TAA 3U6 3A4 TTU 773 357 34A N3U 373 (Cont'd)

4243//9054 kHz, 11-12, 2347 UTC

VV HR 7G TOYR PSE CY
NR 085 CK 29 35 1212 0619 =
5TD UTT TAU 3U4 3A4 353 N3D 354 365 4TA
N3D 4TU U7U N4A 434 3DA N3D 446 467 3DU
TTU TT3 773 435 3DU N3D 44D 3D5 4D3 AR
7G AGN
NR 085 CK 29 35 1212 0619 =
5TD UTT TAU 3U4 (Cont'd repeat message) AR
A HR 7G GA
NR 038 CK 29 35 1212 0631 =
UT5 TAU 3U4 3A4 TTA TTU TT3 773 353 DN7
354 75D 37D 4AA 446 34U N3D 4TA 436 336
DND N34 44D 4D3 N3D 4D6 3DU N3D 3D5 AR
7G AGN
NR 038 CK 29 35 1212 0631 =
UT5TAU 3U4 (Cont'd repeat message) AR
A HR 7G GA
NR 039 CK 18 35 1212 0633 BT
UT5 TAU 3U4 7TA TTA TTU TT3 773 4AA ..
34U N3D 4TA 436 336 DND N34 44D AR
7G AGN
NR 039 CK 18 35 1212 0633 =
UT5 TAU 3U4 7TA TTA TTU TT3 773 4AA 446

34U N3D 4TA 436 336 DND N34 44D AR
A HR 7G GA
NR 23 CK 93 35 1212 0720 =
UTU TAU 3U4 3A4 7TU 7TA 7T7 73U 7UT TTU
773 354 (Cont'd) AR
7G AGN
NR 23 CK 93 35 1212 0720 =
UTU TAU 3U4 3A4 7TU (Cont'd repeat message) AR
A HR UP SB WK

4243//9054 kHz, 12-12, 0935 UTC, i.p.

353 4TA 44D 3UN 35A U4T AR
A HR 7G AGN
NR 042 CK 29 35 1212 1653 =
UT5 TAU 3U6 3A4 TTA TTU TT3 773 354 75D
373 N45 37D N3D 353 4TA 44D 33U 34U DA5
N34 436 467 4D3 N3D 4D6 3D5 N3D 3D3 AR
A HR 7G GA
NR 043 CK 16 35 1212 1654 =
UT5 TAU 3U6 7TA TTA TTU TT3 773 4.. 4D
33U 34U DA5 N34 436 467 AR
A HR UP SB WK AR

7553//9153 kHz, 12-12, 0915 UTC

V BNEC (x3) DE XSV70 (x2)
HR 7G GA PSE CY
NR 078 CK 29 49 1212 1700
..7 4N U76 75N (Cont'd)
7G AGN
NR 078 CK 29 49 1212 1700
.D7 AAN U76 (Cont'd)
A HR 7G GA
NR 1127 CK 120 35 1212 1540
5A7 UT3 TAU .TU6 3A4 TT4 TT. 773 354 (Cont'd)

4243//9054 kHz, 13-12, 2348 UTC

VVV HR 7G TOYR PSE CY
NR 050 CK 28 35 1214 0610 =
UT5 TA4 3U4 3A4 TTA TTU TT3 773 353 U4T
354 TTA 773 4TA 446 TTU 773 4TA 44D 34U
DA5 N34 446 4D6 3D4 N3D 3DU AR
7G AGN
NR 050 CK 28 35 1214 0610 =
UT5 TA4 3U4 3A4 (Cont'd - Repeats message) AR
A HR 7G GA
NR 051 CK 13 35 1214 06AU =
UT5 TA4 3U4 7TA TTU TT3 773 4TA 44D 34U
DA5 N34 446 AR
7G AGN
NR 051 CK 13 35 1214 0602 =
UT5 TA4 3U4 7TA TTU TTE 773 4TA 44D 34U
DA5 N34 446 AR
A HR 7G GA
NR 089 CK 2035 1214 0640 =
5TD UTT TA4 3U4 7TA N44 3A4 353 4TA U7U
N4A 447 3DU TTU TT3 773 44D 3D5 4D3 4D6 AR
7G AGN
NR 089 CK 20 35 1214 0640 =
5TD UTT TA4 3U4 7TA N44 3A4 353 4TA U7U
N4A 447 3DU TTU TTE 773 44D 3D5 4D3 4D6 AR

A HR 7G GA
NR 27 CK 073 35 1214 0713 =
UTU TA4 3U4 3A4 7TU 7TA 7T7 73U 7UT TTU
773 353 U4T 35A 4TA 447 77A 43D 34U N3U (Cont'd)
7G AGN
NR 27 CK 073 35 1214 0713 =
UTU TA4 3U4 3A4 7TU 7TA 7T7 73U 7UT TTU (Cont'd)
A HR UP SB WK AR

4730 kHz, 13-12, 2331 UTC, i.p.

VV HW8
VV JFO
R UB
BJF
QSA ?
3 HR WK 7.. 2 K
R HR C FOR S 3
NR NR 34 .. 8
VV HM8
05 05 05 05
VV NB8
R R
05 05 05
NNGN NNG NNG NNG
7G TO IT GA
7G BT UUUU T653 ?
T654 TT45 TATT TT6A T4AT 6ATD TU TDAT (Cont'd) AR
NNG NNG NNG NNX USB QS. USB

4243//9054 kHz, 15-12, 1148 UTC

V HR 7G TOYR PSE CY
NR 092 CK 33 35 1215 1509 =
5TD UTT TA5 3U6 7TA 3A4 353 (Cont'd) AR
7G AGN
NR 092 CK 33 35 1215 1509 =
5TD UTT TA5 3U6 7TA (Cont'd repeat message) AR
A HR 7G GA
NR 059 CK 18 35 1215 1530 =
UT5 TA5 3U6 3A4 TTA TTU TT3 773 35A DN7
353 4TA 33U N3D 4AA 446 4D6 3DA AR
7G ANG
NR 059 CK 18 35 1215 1530 =
UT5 TA5 3U6 (Cont'd repeat message) AR
A HR 7G GA
NR 30 CK 163 35 1215 1605 =
UTU TA5 3U6 3A4 TTU 773 (Cont'd)

4342 kHz, 15-12, 0954 kHz, i.p.

R R QSA ?
QSA 2 QSA ?
RPT
QSA 2 QSA ? K
R R IEC = 1939 III IEC Q1938 AR K
OK HR 7G GA K
7G NR 6793 CK 35 49 1215 1700 RMKS 0838 TO 0560 K
= = =
7TU6 D.6T 7T7A 53UA 43N7 A7U4 T743 D4AT T3UA TTA7 7T65 (Cont'd) AR
R OK OK
7TU6 D56T 7T7A 53UA 43N7 A7U4 (Cont'd repeat) AR K
QSL ?

RPT
OK U 7G GA
OK
QSL 1750 K
SK

4243//9054 kHz, 15-12, 2346 UTC

VVV HR 7G TOYR PSE CY
NR 059 CK 17 35 1216 0611
UT5 TA6 3U4 3A4 TTA TTU TT3 773 35U DN7
353 4AU 446 4D6 N3D 4T3 3DU AR
7G AGN
NR 059 CK 17 35 1216 0611 =
UT5 TA6 3U4 3A4 TTA TTU TTE 773 35U DN7
353 4AU 446 4D6 N3D 4T3 3DU AR
A HR 7G GA
NR 093 CK 24 35 1216 0616 =
5TD UTT TT6 3U4 7T3 7. 443 A43 53N (Cont'd) AR
7G AGN
NR 093 CK 24 35 1216 0616 =
5TD UTT TT6 3U4 7T3 7TA N44 3A4 353 N3D
35U 4A3 N3D 4AA U7U N4A 445 3DA TTU TT3
773 446 3DU 4D3 AR
A HR 7G GA
NR 31 CK 085 35 1216 0704 =
UTU TA6 3U4 3A4 TTU 773 (Cont'd) AR
7G AGN (0001z - From old day log)
NR 31 CK 085 35 1216 0704 =
UTU TA6 3U4 A34 TTU 773 (Cont'd) AR (
PSE WK

4382/7553 kHz, 15-12, 0914 UTC, i.p.

35T 4UT 436 467 N3D 445
7G AGN
NR 1136 CK 127 35 1215 1540
5A7 UT3 TA5 3U6 3A4 TT4 773 353 U46 35A (Cont'd)
A HR 7G GA
NR 1137 CK 120 35 1215 1540
5A7 UT3 TA5 3U6 TT4 773 3AD 35A AT3 N3D (Cont'd)
7G AGN
NR 1137 CK 120 35 1215 1540
5A7 UT3 TA5 3U6 TT4 773 (Cont'd repeat message)
A HR 7G GA
NR 1135 CK 118 35 1215 0718
5A7 UT3 TA5 3U4 3A4 TT4 773 353 N3D 35A (Cont'd)
7G AGN
NR 1135 CK 118 35 1215 0718
5A7 UT3 TA5 3U4 3A4 TT4 773 (Cont'd repeat message)
ZNN SK

4397 kHz, 15-12, 0944 UTC, i.p.

V Y8BE DE KRR. QSA 1 K
R HR KP U QSA 1 K
R K
VA
VVV VKXI K K. VVV VKXI K
VV 2NCG K K. VVV 2NCG K K. VVV 2NCG K K
DE 3KXI K
R R HR KP U QSA 2 K
R HR .. CGU QSA 1 K

R SK
SK
VVV 2NCG K K
VVV SBGW K K
DE ...
05 05 05 05 05 05

4545 kHz, 15-12, 1219 UTC, i.p.

R RPT PK EEEE RPT PBL RMKS K
R RPT MN EEEE RPT RMKS K
R QSL 2021 HR MSG GA K
WK
NR 001/CCK CK 28 42 1215 2022 RMKS 5615 TO 5665 =
5NU. ... (Message format denotes QV5B family)
AR QSL ? K
R RPT K
R 1W R 5920 5920 K
R NW 98.2 SEEEEE 6II EEEEE 6W 9802 9802 K
R ... 16W 5012 5012 K
25 BT 4N. UDU. N
R .. K
R SK

8073 kHz, 15-12, 0018 UTC, i.p.

A HR 7G GA
NR 1144 CK 42 35 1215 0705 =
... N5U TA5 N53 TT6 N54 7TT TT6 746 7T5 (Cont'd) AR

3232 kHz, 16-12, 1111 UTC, i.p.

NT35 536D 7DA5 A4NT D76U AR K
R RPT PBL K (Other station also on this frequency)
R ...L .
RPT PBL
NR 2W1/CCK CK ..35 1216 1..5 AR
R QSL 1913 HR W... K
R GA K
7G NR 016/CCK CK .1 35 1216 19.A EEEE
NR 0./CCK CK 91 35 1216 193... R
RMKS TO 5.. (Fading badly) AR
R RPT 10W K (Repeats groups)
HR WK NR 150
HR WK ... K
R SK

4243//9054 kHz, 16-12, 1148 UTC

V HR 7G TOYR PSE CY
NR 094 CK 17 35 1216 1520 =
5TD UTT TA6 3U6 3A4 35U 4AU U7U N4A 445
3DA TTU TT3 773 446 3D3 4D3 AR
A HR 7G GA
NR 061 CK 21 35 1216 1615 =
UT5 TA6 3U4 3U4 3A4 TTA TTU TT3 773 354
U4T 353 36U 4AU 446 467 33U 445 4D4 3D3
N3D 3DA AR
A HR 7G GA
NR 3U CK 121 35 1216 1616 =
UTU TA6 3U6 3A4 TTU 773 35A N3D (Cont'd)

4243 kHz, 20-12, 1149 UTC

V HR 7G TOYR PSE CY
NR 002 CK 23 35 1220 1530 =
5TD UTT TUT 3U6 3A4 353 N3D 354 35D 365
4DE U7U N4A 444 3DA TTU TT3 773 435 3DU
4DU N3D 4D3 AR
7G AGN
NR 002 CK 23 35 1220 1530 =
5TD UTT TUT 3U6 3A4 353 N3D 354 353 (Repeats message) AR
A HR 7G GA
NR 40 CK 172 35 1220 1614 =
UTA UTU TUT 3U6 3A4 7TU (Cont'd) AR
NR 40 CK 172 35 1220 1614 =
773 (Cont'd) AR
A HR 7G GA
NR 08 CK 32 35 1220 1649 =
UT5 TUT 3U6 3A4 TTA TT5 TT3 773 353
33U N3D 354 75D (Cont'd) AR
7G AGN
NR 08 CK 32 35 1220 1649 =
UT5 N3D (Cont'd repeat message) AR
A HR UP SB WK

4243//9054 kHz, 21-12, 1207 UTC, i.p.

A HR 7G GA
NR 078 CK 14 35 A221 1649 =
UT5 TUA 3U. (Cont'd) AR
A HR MSG GA
NR 079 CK 14 35 1221 1650 =
UT5 TUA 3U6 (Cont'd) AR
7G AGN
NR 079 CK 14 35 1221 1650 =
UT5 TUA 3U6 (Cont'd repeat message) AR (
A HR UP SB WK

3187 kHz, 24-12, 1400-1425 UTC, i.p.

3AN 5TA T56 ATT TD5 656 TNA TUA
? 5W TNA
5W TNA
R NR
05 EEE 05
OU K
457D
R = =
OB34K K
KO EEEEE
OB..
55 OBS GA K K
R R OBS TOE K (OBS Normally refers to weather observations)
OBS GA K
= = AS AS
OK
VA VA GB VA E EEE
4567D OBS GA K K
FLT FAST
CQ OUK K
OBS TOINT
447N6 DT6T3 5TA TTD D36U TD6 T44 UNU III =
446 6TD T6T U6 ?? 6UO 7564 U DDE6 A TDA T3N UD7 III = = =
44D N65 NT ? 2W 2W

660 ... 63 T6D T34 UD6 III =
447 33D T7T 463 ODD 35N ATA T7U U7T III = =
445 64D TNT 365 ODD 35N TNU T5T U7D III = =
44N U6D TDT 5UU 6TT 7D64 AT7N T3N U66 III = =
443 3ND TDT 56U 07U 64U DD3 5NT 63T UDU DA II = R = =
44D D6D T4T 4AD UAT 756 3DD D35N AAT TUA U43 III = R =
443 3DD AUT T6U ODD 656 T77 T3T U73 III = R = =
44U A7U UNT A6U ODU 656 TN6 TD3 U7U III = N = =
443 AN5 TAT 56A OD5 656 TNA TUA U7T III = N = =
446 AN7 057 ATT D73 6TT DDT 7AU 77 III = R = =
446 547 ATT 36U OD7 35N TN7 T5N U75 AR K
SK
R K
VA VA VA
5 VVV C. Q GKY QKK
R R B G K ?
DE GKY GKY ? ? R HR KP U QSA 1 K
QSA 2 K
R R OK NIL SK
VA
VVV GFBV GFBV K K
R R
VVV GFBV K K
VV GFBV K
R R
VVV DTDK DTDK K K
VVV DTDK DTDK DTDK K
VVV DTDK K K
VVV SLC9 SLC9 SLC9
VVV SLC9 SLC9 K K
VVV
R
VVV SLC9 K
VVV JHGA JHGA JHGA K K
R
VVV JHGA JHGA K K
VVVV JHGA JHGA
R R ?
555

4364//8073 kHz, 24-12, 1142 UTC

V BNGC (x3) DE XSV85 (x2)
HR MSGS GA PSE CY
NR 1176 CK 5U 35 1124 1558 =
TAU 6UT U4N 53T (Cont'd) AR
A HR MSG GA
NR 1177 CK 32 35 1224 1602 =
TAU N.U TT4 N53 TTD N54 7TT TT4 746 (Cont'd) AR
A HR 7G GA
NR 1178 CK 330 35 1224 1619 =
TU4 3U6 3AN 3U7 TAU 773 TA7 773 TAD 773 357 (Cont'd)

4243//9054 kHz, 24-12, 1158 UTC, i.p.

373 4TN 445 3UD 3D3 4T7 336 ... AR
A HR MSG GA
NR 092 CK 15 35 1224 1640 =
UT5 TU4 3U6 3A4 TTA TTU TT3 773 356 4AD
435 4D6 N3D 4D3 3DA AR
A HR UP SB WK AR

4243//9054 kHz, 29-12, 1202 UTC, i.p.

773 35A N3D 353 4AA (Cont'd)
III = U4T 35A 4AA 445 3UN 353 4TN 445 AR
A HR 7G GA
NR 015 CK 17 35 1229 10654 EEEE
NR 014 EEEEE
NR 015 CK 17 35 1229 1653 =
UT5 TUN 3U6 3A4 TTA TTU TT3 773 35U U4T
353 4AA 435 4D6 N3D 4D3 3DA AR
7G AGN
NR 015 CK 17 35 1229 1653 BT (Repeats message) AR
A HR UP SB WK

7553//9153 kHz, 30-12, 0911 UTC, i.p.

V BNEC (x3) DE XSV70 (x2)
HR 7G TOYR PSE CY
NR 1181 CK 83 35 1230 1535
5A7 UT3 T3T 3U6 3A4 TT4 773 353 4AA 445 (Cont'd)
7G AGN
NR 1181 CK 83 35 1230 1535
5A7 UT3 T3T (Cont'd repeat message)

8000 kHz, 30-12, 1427 UTC, i.p.

1230 2140 RMKS CQ
RMKS CQ RMKS CQ
R GA (Other station also on this frequency but mostly unreadable)
= = =
UD65 7D34 N7DT U675 N65A 56NA A37U AN34 T3UD (Cont'd)
AR 7G AGN =
NR NR 4U7/CCK CK 99 23 1230 2140 RMKS CQ =
UD65 7D34 N7DT U675 N65A 56NA A37U AN34 T3UD (Cont'd repeat message) AR

4243//9054 kHz, 30-12, 0900 UTC

VV HR 7G TOYR PSE CY
NR 022 17 35 1230 1520 =
5TD UTT T3T 3U6 3A4 356 4AA U7U N4A 444
3DA TTU TT3 773 435 3DU 4D3 AR
7G AGN
NR 022 CK 17 35 1230 1520 = (Repeats message) AR
A HR 7G GA
NR 60 CK 109 35 1230 1600 =
UTU T3T 3U6 3A4 TTU 773 353 U4T 35A 4AA (Cont'd) AR
7G AGN
NR 60 CK 109 35 1230 1600 =
UTU T3T 3U6 3A4 (Repeats message)

4243//9054 kHz, 31-12, 1148 UTC, i.p.

444 3DA TTU TT3 773 445 3DU 4D4 AR
HR 7G GA
NR 12 CK 105 35 1231 1610 =
UTU T3A 3U6 3A4 TTU 773 357 4AA 445 (Cont'd) AR
A HR MSG GA
NR 021 CK 14 35 1231 1658 =
UT5 T3A 3U6 3A4 TTA TTU TT3 773 356 36U
4AA 435 435 4D4 3DA AR
A HR U PS EEEE A HR UP SB WK

4364 kHz, 31-12, 1145 UTC

GA PSE CY
NR 1217 CK 6
NR 1217 CK 221 35 1231 1539 =
T3A 3U6 3AN 3U7 TAU 773 (Cont'd)

7553//9153 kHz, 31-12, 0913 UTC

V BNEC (x3) DE XSV70 (x2)
HR MSG TO YR PSE CY
NR 1184 CK 84 35 1231 1545
5A7 UT3 T3A 3U6 3A4 TT4 773 45A U46 353 4AA (Cont'd)
MSG AGN
NR 1184 CK 84 35 1231 1545
5A7 UT3 T3A 3U6 3A4 TT4 773 (Cont'd)
A HR MSG GA
NR 1185 CK 153 35 1231 1545
5T7 UT3 T3A 3U6 TT4 773 3AD 35A U46 353 (Cont'd)

9054 kHz, 31-12, 0247 UTC, i.p.

7G AGN
NR 02. CK 32 35 1231 ..3. =
UT5 T3A 3U5 (Cont'd) AR
A HR UP SB WK (0249z) (Switched to voice - USB - Female - Chinese - Now V26 Sked - 0250z)



UM10 - 10-minutes net

3805//3536 kHz, 01-12, 1045 UTC	ZJL4	3238 kHz, 11-12, 0920 UTC	D6AN
3648//3316 kHz, 01-12, 1053 UTC	OUCH	3865//3206 kHz, 11-12, 0950 UTC	KTR4
3865//3206 kHz, 02-12, 0943 UTC	KTR4	3238 kHz, 11-12, 0950 UTC	D6AN
3865//3206 kHz, 02-12, 1855 UTC	KTR4	6920 kHz, 13-12, 0620 UTC	L65K
3238//3698 kHz, 02-12, 0955 UTC	D6AN	6877 kHz, 13-12, 0620 UTC	L3AD
3238//3698 kHz, 02-12, 1853 UTC	D6AN	5762 kHz, 13-12, 0650 UTC	L3AD
3865//3206 kHz, 06-12, 1655 UTC	KTR4	5735 kHz, 13-12, 0650 UTC	L65K
3238//3698 kHz, 06-12, 1658 UTC	D6AN	3238//3698 kHz, 13-12, 1456 UTC	D6AN
3865//3206 kHz, 07-12, 1659 UTC	KTR4	3206 kHz, 13-12, 1459 UTC	KTR4
3865//3206 kHz, 07-12, 1722 UTC	KTR4	3206 kHz, 16-12, 1457 UTC	KTR4
3698 kHz, 07-12, 1725 UTC	D6AN	3238 kHz, 16-12, 1458 UTC	D6AN
3238 kHz, 08-12. 1121 UTC	D6AN	5762//6877 kHz, 20-12, 0423 UTC	L3AD
3238 kHz, 08-12. 1220 UTC	D6AN	5735//6920 kHz, 20-12, 0424 UTC	L65K
3206 kHz, 08-12, 1122 UTC	KTR4	3238//3698 kHz, 20-12, 1256 UTC	D6AN
3206 kHz, 08-12, 1221 UTC	KTR4	3206//3865 kHz, 20-12, 1257 UTC	KTR4
3865 kHz, 08-12, 1459 UTC	KTR4	3206//3865 kHz, 29-12, 1227 UTC	KTR4
3238 kHz, 10-12, 1819 UTC	D6AN	3206//3865 kHz, 29-12, 1453 UTC	KTR4
3206 kHz, 10-12, 1822 UTC	KTR4	3238//3698 kHz, 29-12, 1229 UTC	D6AN
3698//3238 kHz, 11-12, 1750 UTC	D6AN	3238//3698 kHz, 29-12, 1454 UTC	D6AN
3865//3206 kHz, 11-12, 0950 UTC	KTR4		

DIGITAL MODES



HM01 Dirección General de Inteligencia

Modes: AM voice and RDFT data

9330 kHz, 04-12, 0657 UTC

Groups:

56412 32475 65466 72673 47001 42033

Encrypted files sent:

64635641.TXT

10833247.TXT

10456546.TXT

55274700.TXT

74314203.TXT

On the right the encrypted contents of file

74314203.TXT

sapoŠ<řzY+lé—————]têCEMF®+fó',/ò
éY6HČÍUíöKX »_ÇÀ
€mY'h▣VÚéä<b'úúéYÃÓÉBãÁmî½x^i-Ò½b@μ`|`~v%!4«òªV_-Pß%‰™Ûr
7g-#ÿöDöè'ó{ç¼Qo²Eÿ\$Ã4ZZ
'E•j5ÿÓÃ\PIÚY@hA#ÀilçãSD½Ž/ÒkÉãfB >A'É°p4\%]½öPTÃiûíó~š%×â{~
Ýæúóp& C9<ÉòùÀÀc÷¼
Š4êIlC7'Sqòø'ºJ°Æ,,\DIPØ`ÛyTißø\$QRÓ½A,ã=')É"E÷i]i(mqqm—
v;aÓçºiÖ'zhºÿo

Bì—————ûl•øÃl mPé¶_šee%
»xK-òœà4¶“oïU0Óçã ãàk9EZ'+bîmY+@''Y-ÈI/SNâO÷'
°ä,³,,f¥3f^kĐú&ÊHÅ[OM(È)IØÍ±Ã&Ë3±¥i2}»*K{HöË8Ë¥tĐ~nsé.ª±YÁç“ž'9
Vr▣qWä,»JSfúºBu6D¶IÖPáoääÁbô [5>kœß¼+š~zv0Æw¹ÁQ }³VßáéûAiÖJ
—————4&x÷¥ðí!!J;:-¶¿B“%:âš>ÇaÚÚÛuàèQ

11435 kHz, 07-12, 1606 UTC

No signal until 1606 UTC, then Radio Habana Cuba for 15 seconds, then right into groups & data: 56416 72421 86751 72677 47004 42037

11435 kHz, 29-12, 1601 UTC

Music followed by the Radio Habana Cuba ID, then 33613 67146 34255 66354 14551 02443

11435 kHz, 31-12, 1602 UTC

Radio Habana Cuba with 2 minutes of news then at 1604z abruptly into 4th group & data: 33615 67148 34257 66356 14552 02445



HM02

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

Benka found the new freq for HM02

4761 kHz, 30-12, 0520 UTC

293 44 =

92613 56106 97655 70166 57557 87048 71132 62983 86124 28606

18203 08641 53084 60157 42099 11140 31043 71166 33209 65833

49100 80411 14028 47801 22042 86070 84819 26598 27238 71392

39390 69614 59890 08537 23198 61736 60107 61170 22038 99096

83469 24984 33406 82402 = repeats message = 293 44 000

49987 13456 43122 83986 29287 92533 93428 15231 21541 74459
 97689 19162 11361 30571 72765 16802 74862 46920 55963 84753 =50=
 00661 06057 51283 56605 25997 70364 45009 87009 30711 41678
 79634 15161 14785 44614 20938 01426 81133 11046 65647 70473
 24460 24707 82017 65909 22241 20245 46057 04440 00256 97991
 49198 91212 21071 56987 37408 47330 16671 72075 81588 40734
 11841 10676 59243 01067 14836 12674 64141 86664 78125 99758 =100=
 77073 66020 35125 77566 58145 16849 15301 23719 86427 43152
 29661 38043 71150 36529 00095 94648 93340 12397 86976 34480
 42096 79558 50737 69646 28362 68580 49541 93550 19628 59988
 30216 30697 - 1138 (

Opchat
 R M NIL QRU?K
 QRU? K
 ZVP K
 BK QRV K
 R 332 1141 K
 NIL SK

Freq	Date	UTC	Day	Details	Mode
6930	9-12	0630	Fri	K4MT wkg NT9P. Opchat in CW, msg in FSK 50/500	CW
9202	9-12	1134	Fri	Russian diplo/intel. Opchat NT9P NT9P NT9P DE K4MT K4MT QSA3 QTC1 ZCC K, then into FSK 50/500	CW
9202	9-12	1136	Fri	Russian diplo/intel. 987 123 9 1120 3708 = 44316 37367 78727 ... 59988 30216 30697 - 1138 (=50 and =100= seperators)	FSK 50/500
9202	9-12	1139	Fri	Russian diplo/intel. Opchat after the FSK message: R M NIL QRU? K. QRU? K. ZVP K. BK QRV K. R 332 1141 K. NIL SK	CW
5439	11-12	1334	Sun	IK7R wkg M8TD. QSY 56218	CW
5460	15-12	0922	Thu	IK7G wkg M8TK QSY 94251	CW
5923	16-12	1805	Fri	TYA1 wkg PI2W. opchat in Morse: QRU NIL SK QRX 11598. Msgs in FSK 50/500	CW
9371	21-12	0415	Wed	ESU6 wkg K3F8. QSY 62734	CW
5471	21-12	1345	Wed	7VOL wkg 492M. QSY 96547	CW
5147	21-12	1735	Wed	492M wkg 7VOL. QRU NIL QAP	CW
7693	22-12	0937	Thu	V278 wkg TNFR. QTC 1 ZCC K. Msgs in FSK 50/500	CW
7485	22-12	1855	Thu	492M wkg 7VOL. QRU NIL QAP	CW
5147	22-12	1900	Thu	492M wkg 7VOL. QRU NIL QAP	CW
9432	23-12	0523	Fri	862N wkg J8OL. QTC 1 ZCC K. Msgs in FSK 50/500	CW
14924	27-12	1332	Tue	Russian Intelligence K4MT/NT9P net, Moscow	FSK 50/500
16331	29-12	1035	Thu	Russian diplo/intel. K4MT/NT9P Net	FSK 50/500

M42c (F01) – FSK 200/500

18169/15765 kHz, 02-02, 2230/2240/2330/2340 UTC

Link ID 00116, Date 2nd, Serial #53, Groups 198

11177 00116 27456 02053 01989
 69726 40754 01280 15207 16495 35110 07081 64149 86225 23____
 01506 97921 89989 36360 44966 41980 49055 01602 88498 34491
 75762 42550 52977 68120 32874 63804 97975 13780 95213 27332
 38616 09191 50949 68246 53474 71404 83346 15546 69675 64300
 25385 05667 34080 81535 11401 18578 51609 12490 14432 51326
 06968 08675 44605 53915 04967 43096 60458 28685 34017 78089
 78397 25024 80626 56634 17130 82901 08167 88213 89354 12277
 91404 78768 08614 52593 88435 05934 62532 00098 09672 14484
 98441 96809 36389 50171 98267 59399 79735 04194 14364 22761
 _____ 35374 80016 45831 22955 46312 06519 44681

08129 88682 02498 15646 86357 42402 72016 19499 69420 23689
28673 53595 97990 52102 06369 48408 44824 27799 39840 80590
91828 76848 98370 71963 01486 66617 82965 94378 28876 04912
22460 23986 86972 68898 81680 48442 96455 47057 64353 73283
08669 71937 12357 02607 37184 76896 39697 56052 76632 43604
36374 94293 82454 _2247 41616 87049 69516 02222 73610 07231
07480 18734 71344 24649 84257 27440 56004 03208 69923 54810
72499 23667 74696 09951 73085 43946 23862 70767 43124 75580
77377 93207 82071 46112 88710 10790 76933 64984 69978 01435
94385 52831 82705 26117 88677 49002 53196 00000

10884/8157 kHz, 12-12, 0025/0035/0125/0135 UTC

Link ID 00117, Date 9th, Serial #54, Groups 204

11177 00117 79638 09054 02049
55476 56937 45254 74430 78688 43149 20689 26649 50487 17272
26106 15949 09177 11597 76736 56394 81293 90885 09638 56115
98481 03044 44763 17596 21785 74185 97538 83189 64333 86048
88977 64303 09254 05946 92247 75481 28936 80210 51108 50646
25862 84724 06299 08131 10340 39196 93380 56640 04626 75698
72829 96027 61321 59914 91075 87048 04296 10422 20552 90283
80409 19625 44993 60502 94351 74314 69422 64128 89288 86838
33380 47689 06879 03337 32652 65879 60410 48708 62479 39283
01789 15492 57499 45935 70819 97825 34902 01962 12073 11905
67740 64748 58260 66462 89607 01013 77264 52029 09945 10378
86046 76097 59785 33837 93787 41909 88584 37138 09799 32437
12202 17517 41711 17040 85166 21964 80810 22975 64637 97491
70608 53941 54155 49838 52227 03463 63344 39725 89024 76571
33385 10876 35080 41135 93415 08356 59907 63761 50650 81226
91042 74032 80370 03492 74252 44386 08922 31834 22451 75716
98133 37986 70484 81685 21996 06499 08931 48967 73712 21509
04013 74113 03217 56542 21724 16578 59273 64797 22163 02156
50034 66025 89506 08378 21058 55073 82307 77691 19089 88037
06921 77976 27158 84565 68488 38752 45057 32721 34941 95741
22162 02297 43561 40312 77981 07601 02519 71312 06874 92445
91289 60640 54202 00000

10884/8157 kHz, 19-12, 0025/0035/0125/0135 UTC

Link ID 00117, Date 16th, Serial #55, Groups 207

11177 00117 17259 16055 02079
81535 11401 18578 51609 12490 14432 51326 06968 08675 44605
53915 04967 43096 60458 28685 34017 78089 78397 25024 80626
56634 17130 82901 08167 88213 89354 12277 91404 78768 08614
52593 88435 05934 62532 00098 09672 14484 98441 96809 36389
50171 98267 59399 79735 04194 14364 22761 85113 06447 53827
35374 80016 45831 22955 46312 06519 44681 08129 88682 02498
15646 86357 42402 72016 19499 69420 23689 28673 53595 97990
52102 06369 48408 44824 27799 39840 80590 91828 76848 98370
71963 01486 66617 82965 94378 28876 04912 22460 23986 86972
68898 81680 48442 96455 47057 64353 73283 08669 71937 12357
02607 37184 76896 39697 56052 76632 43604 36374 94293 82454
32247 41616 87049 69516 02222 73610 07231 07480 18734 71344
24649 84257 27440 56004 03208 69923 54810 72499 23667 74696
09951 73085 43946 23862 70767 43124 75580 77377 93207 82071
46112 88710 10790 76933 64984 69978 01435 94385 52831 82705
26117 88677 49002 71620 48223 32724 54168 04883 52474 75657
69703 23805 25151 15893 36786 25100 08288 70150 80715 13394
82360 90702 00040 81199 39912 64793 28756 04696 89685 98707
85878 05285 72579 17396 99877 36528 40649 66596 28875 70229

13813 76149 20186 34205 94491 99341 25726 01415 35773 32074
76818 93727 06470 29163 82859 55205 00000

17471/14421 kHz, 21-12, 0000/0100 UTC

Serial #98, Groups 245

33148 26042 27825 45781 24331 18907 40863 75347 92873 39064
52991 13289 72114 98065 37665 63410 48575 70098 48708 84256
37130 15246 90128 88822 42471 30582 90338 09364 51927 58000
60048 80668 20565 53471 57307 58969 34511 47411 08099 18696
63439 50852 55947 94234 38148 87106 38958 58906 14181 53594
17746 58333 07416 43543 02670 40387 12564 82241 53833 48912
40515 57521 52262 73398 35476 49170 65727 71804 57819 86961
57617 08710 43603 91977 12326 75988 76680 80929 75582 88186
34352 38140 33148 69799 92483 84907 76344 76623 01038 00903
27825 18389 65952 77319 26042 74833 98306 06435 91844 22439
16704 37301 25635 13982 13821 52223 08543 78118 23052 43729
06022 31171 46186 96722 97344 18301 28062 05488 79402 26281
89129 80255 18259 35018 51858 22998 46902 00050 21934 77158
32618 83173 10175 80987 62435 73413 06113 79182 20071 65505
39163 72516 52821 88090 88341 10139 51826 98797 26445 54247
94154 88416 09641 71799 20143 61335 48416 32974 44420 84433
20799 21046 24072 21624 13807 83388 32360 96222 04059 78265
11452 48342 13480 97111 02592 79489 01043 67001 77148 01560
76485 62960 16978 32406 46934 84850 17546 05192 32373 78473
12236 83687 10907 05614 41291 00718 79736 92685 13815 61937
42804 12691 36285 82133 61027 80151 06005 46226 26073 63731
92926 12170 43603 46215 58307 97932 36934 86533 83600 19748
07035 63538 08053 73824 09821 06191 98423 78693 36662 39873
99268 20400 09056 03492 37235 67697 23396 17081 77791 49469
78977 97654 58961 89565 34521 98245 00000

18169/15765 kHz, 23-02, 2230/2240/2330/2340 UTC

Link ID 00116, Date 23rd, Serial #56, Groups 237

11177 00116 50241 23056 02379
89783 97255 24806 26566 34171 30829 01081 67882 13893 54122
77914 04787 68086 14525 93884 35059 34625 32000 98096 72144
84984 41968 09363 89501 71982 67593 99797 35041 94143 64227
61851 13064 47538 27353 74800 16458 31229 55463 12065 19446
81081 29886 82024 98156 46863 57424 02720 16194 99694 20236
89286 73535 95979 90521 02063 69484 08448 24277 99398 40805
90918 28768 48983 70719 63014 86666 17829 65943 78288 76049
12224 60239 86869 72688 98816 80484 42964 55470 57643 53732
83086 69719 37123 57026 07371 84768 96396 97560 52766 32436
04363 74942 93824 54322 47416 16870 49695 16022 22736 10072
31074 80187 34713 44246 49842 57274 40560 04032 08699 23548
10724 99236 67746 96099 51730 85439 46238 62707 67431 24755
80773 77932 07820 71461 12887 10107 90769 33649 84699 78014
35943 85528 31827 05261 17886 77490 02716 20482 23327 24541
68048 83524 74756 57697 03238 05251 51158 93367 86251 00082
88701 50807 15133 94823 60907 02000 40811 99399 12647 93287
56046 96896 85987 07858 78052 85725 79173 96998 77365 28406
49665 96288 75702 29138 13761 49201 86342 05944 91993 41257
26014 15357 73320 74768 18937 27064 70291 63828 59203 47716
55468 10518 91810 97391 26266 50543 19877 68732 54357 56595
83319 96171 40258 01697 05132 99960 64305 41458 51996 79059
76681 89295 46276 71718 68078 66961 85966 17556 30259 82386
16613 40968 26423 05072 80235 43071 88742 21217 26360 88708
99842 68785 98364 71594 42000 56235 00000

18169/15765 kHz, 30-02, 2230/2240/2330/2340 UTC

Link ID 00116, Date 30th, Serial #57, Groups 176

11177 00116 91528 30057 01769
10585 50738 23077 76911 90898 80370 69217 79762 71588 45656
84883 87524 50573 27213 49419 57412 21620 22974 35614 03127
79810 76010 25197 13120 68749 24459 12896 06409 45466 39952
13099 13458 57338 95538 60336 18705 11030 04542 49994 98163
93346 15617 22928 12478 63772 37253 76813 64035 85099 80249
01200 63908 38731 00503 18017 91035 94846 92903 03379 49919
42065 95611 43727 33924 44993 83295 43949 55739 07272 90504
17936 21253 91887 05279 19636 84667 27410 06443 73472 17956
89552 15991 62105 32197 68206 43369 04851 29738 09231 87416
38550 12648 56252 69133 15269 44607 43790 02269 03558 71706
04130 29609 35436 43191 09456 25917 74119 13874 93138 79388
40086 82385 05926 85283 67872 66297 03723 51789 41643 54873
35014 57078 99394 64555 60626 99296 55386 73602 69308 76524
00685 49468 32362 24704 96546 42516 13771 21089 01348 58220
63610 57420 03390 43342 45381 13158 13397 54496 72101 37763
91041 18643 47707 45307 29930 27995 20835 96563 02074 73016
75788 90780 31036 73221 53382 85808 69337 43713 96420 29574
64912 31813 89245 10013 57174 00000

M42d (F06) – FSK 200/1000

Link 16404 / 16405

20875/18747/16316 kHz, 14-12/28-12/29-12, 0900/0910/0920 UTC

Block No 0 : Total Message Size 25 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,30,00,00,00,10,00,00,00,00,0c,20,08,00,00,00,02,c0,04,50,00,90,0a,f0,07,70,0a,90,03

Block No 1 : Link ID 16405 : 13th of month : Msg Number 017 : Msg Type 07145 : Group Count (?) 162

05904 20147 22298 34572 11934 33770 24311 45902

Link ID 16405, Date 13th, Serial #7, Groups 14

1be9 4015 1710 8211 a2e5
571a 4eb3 738c fcf0 63e0 bbbb b86a 994a 6750 3b52
9593 6ee7 ac42 9f46 ef6f 45b9 5d07 9f63 598b 5713
dc84 7b06 5605 dd2c 9ef2 3a44 2aca 7e89 d9f9 90d1
3f1b fd69 a9c2 f3a2 af45 addb b496 eb50 cdf9 099a
ec3a c264 0c78 9632 9f42 0847 b3bd d794 13b1 1bf4
3297 8a26 4279 ba0a 1018 1838 666e 5b23 78f4 cd85
adb4 4638 d7db c3f8 b2d3 ec67 9582 c279 462e 8633
269c 84d0 cf32 df36 51a9 1480 3271 f7d0 8da7 3728
fcf5 2317 291b 2d58 69b0 3092 d336 0d29 bca2 fece
8c42 0ed0 f352 42e4 89bd 8e11 b56a 74bf f975 5a44
c152 230e bf16 e9e3 758a 1f83 f7a4 bbb9 5e27 3f19
e802 1dc5 c115 6328 9078 d182 9329 5a56 d0e9 9c33
8345 ad06 0f02 912b 2b31 5ada fa0f 3905 bda5 8172
5720 a0ef 3bb4 4cf5 6571 6956 0750 6b30 a1b9 84b9
7603 a660 8383 7215 07c0 0422 a93f 0479

12133/10274/8148 kHz, 27-12, 1500/1510/1520 UTC

1be9 4014 8001 042d 29f3
c684 20b2 7a26 25fb 16ce 039d 4e35 84e8 a990 2fd0
7372 2335 2a31 cfd4 1194 78d8 95ed 8312 d7ba a7aa
5dbd 843e 41b5 9e5e e4b9 5973 8e63 485b 5c18 2108
26ad 4b53 f223 39d6 9190 ab7c e6e9 3dde 9221 2568
6c6d 747c dbe5 b097 7cdd e552 1202 d34d 24e3 41d9
b684 0589 62c8 9461 2f05 6c72 e2fd 2654 0253 8e9b
2c83 67df e4a2 1d5b 5b76 2a20 4549 3d9a 8d8d e633

d868 cae1 ec83 96da b44c 5690 b4b8 1413 e401 4d52
5347 4c55 f623 cfee 760a b497 5ad2 fb78 3497 7f10
a46a 2c38 bae3 8cd0 0b81 05af 84b3 1bed 44d1 de09
0044 3e4b 3de9 6195 f1da 46f8 26e2 63e2 568e beee
2266 0fc1 5830 22f5 ab60 1090 c83c e5f3 5254 9dab
ace5 a4a5 89d2 ddb5 c7b9 208b ba15 59d1 1c7b b9e2
1939 778a 942c ea92 4c02 e543 4cd4 450a 7021 9c21
7a32 cc00 5489 fae1 3dd5 4cb1 178d f542 8e21 3bf5
b7d0 0459 b98e 18a9 b400 aeb2 1885 4421 ca3d 6ff8
1733 1386 0814 9a75 0c15 80b3 0f6d 232b d2c5 91c4
cf62 8e59 c2c6 7e65 d196 e5e0 e1f0 58cb 30bc 2c9a
d388 5c83 763e 9f15 37d9 6634 39c7 427a d341 e645
9403 025f d464 03e0 afe2 a3a4 2270 cd52 f5b8 b8a8
5173 9476 0941 b800 c262 4659 0f7d b2f0 f592 7776
82c1 a757 c3c8 2859 6952 0191 6412 b0ec 7010 6f82
cb7e 68dc ae64 83f0 2969 1c88 10fb 367d fda1 3e43
7df5 9793 8309 1d84 fdb8 aa0a 1706 6062 d9bc 4922
3741 ebbe 0cab 1260 5f2c ad2a 1450 c6c1 3a01 8d9d
6cea 882c 2d42 5f51 c80e 678d 1963 522c 2cac f723
6e08 41d3 7343 9c04 9e72 0b5b 8d3a 3004 8b70 c71b
bd01 002d b600

Link 20492

18046/16326/14944 kHz, 14-12, 1015/1025/1035 UTC

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

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

Block No 1 : Link ID 20492 : 14th of month : Msg Number 062 : Msg Type 07145 : Group Count (?) 4

25324 00000 00000 00683 34753 35112 00893 43341

18046/16326/14944 kHz, 28-12, 1015/1025/1035 UTC

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

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

Block No 1 : Link ID 20492 : 28th of month : Msg Number 065 : Msg Type 07145 : Group Count (?) 4

59701 00000 00000 03118 34753 01805 00893 00041

Link 20501

11084/9346/7829 kHz, 04-12, 1530/1540/1550 UTC

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

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

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

56988 00000 00000 01785 12857 00736 00893 29894

9228/7845/5269 kHz, 06-12, 1650/1700/1710 UTC

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

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

Block No 1 : Link ID 20501 : 6th of month : Msg Number 157 : Msg Type 07145 : Group Count (?) 4

57184 00000 00000 01827 26517 34334 00893 38677

11084/9346/7829 kHz, 11-12, 1530/1540/1550 UTC

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

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

Block No 1 : Link ID 20501 : 11th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

01476 00000 00000 03403 26517 36009 00893 44681

9228/7845/5269 kHz, 13-12, 1650/1700/1710 UTC

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

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

Block No 1 : Link ID 20501 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

39180 00000 00000 02654 12857 36056 00893 14875

11084/9346/7829 kHz, 18-12, 1530/1540/1550 UTC

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

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

Block No 1 : Link ID 20501 : 18th of month : Msg Number 147 : Msg Type 07145 : Group Count (?) 4

58804 00000 00000 02383 12857 34432 00893 27720

9228/7845/5269 kHz, 20-12, 1650/1700/1710 UTC

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

75,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 20501 : 20th of month : Msg Number 160 : Msg Type 07145 : Group Count (?) 4

31524 00000 00000 04050 26517 01416 00893 42114

Link 32816/32817

20082/18207/16141 kHz, 01-12, 0600/0610/0620 UTC

Block No 0 : Total Message Size 71 blocks : This transmission contains 2 messages.

7d,12,b0,e6,00,00,05,00,80,00,c0,00,20,00,00,00,00,0f,20,0e,00,07,00,0d,fe,01,29,02,ed,0f,43,07,05,00,b8,0e

Block No 1 : Link ID 32817 : 26th of month : Msg Number 237 : Msg Type 07145 : Group Count (?) 14

03489 08611 29227 15908 00500 40073 13645 54436

Link ID 32817, Date 26th, Serial #95, Groups 248

1be9 8031 0da1 04ed 0ee9

722b 21a3 7f43 af49 05ef 5a95 93e3 a0bb f7c3 dcc9
4935 cb63 db39 689d c79c 90c0 b833 2a7a 439f b171
33b9 62c6 4983 e826 ce7b 017a 5fdb ae75 0cc7 bd51
951f a18a 2574 756f d5e3 46f5 0136 32c7 bd88 3a66
b760 d702 defe 0b21 c776 9f1d daca 1fbd 67d5 d412
2be9 7d17 f638 00df bfc4 c127 f6d0 8ee4 3413 2983
d226 6fbe 76ea d7c0 a863 4e33 7ce7 da93 8511 d2ce
004a f453 48b0 3d2c b776 1352 5145 b5d4 e323 dd69
9cad 0518 474a 5b38 4b6a d302 59f5 fb85 bf13 d9a2
a73f 1be2 2fe8 c169 2159 fc44 cf6c b45e 21fc 8664
bf2b e162 bf31 0306 3b6a b8ad 87d7 6c46 79e4 e9ac
a49e a16b b744 1064 f9c5 fbfd 4769 95bc 64be 2ba8
ec72 db5c a77a bbad bb01 4893 44be 3644 6c53 0a58
e999 508f 2dcd 5f30 e4b3 34a8 a1a3 5627 1a1b aa3a
a9fb 23c7 97ef 5f79 cd55 098d b1e2 4972 f587 ae9e
ac7a b3e7 8d9a 175e 7089 8c76 516b 59ad 4a48 cc45
fd1c 764c b7e6 d1a2 a7ff b278 1d7e 2782 aa1e 05d6
6406 3f7d 5a93 646e 053b 7673 2c53 3eaf b79f a00f
7857 f685 5ee1 e2f4 da47 ef20 2c59 92f1 4465 5073
3863 b276 abc0 206d 1ddc 4b57 6bb3 4c29 5867 ec4c
09a5 fcd7 ae34 c07d 6fb0 0fdb f242 111b b2f9 063d
939a 76f7 9489 b447 9bc1 4ed2 2337 9591 b562 aebc
68ca 1681 0580 e30d e66f 6b50 3766 88ee e120 a416
b146 f53f 55c6 54ed 8d8e 9444 00c7 9b0d 574a 0866
0eef b08b a8b6 7a54 d14c ec14 1855 aa00

Link ID 32816, Date 26th, Serial #96, Groups 185

1be9 8030 53f9 04f0 cae8

4ad8 e7e5 85dd f897 e787 2dcd b1a2 c2b8 b951 2490
b96a 82b1 86d7 beb8 5ed1 0894 4123 d481 17d4 dfed
fc48 0acc e6a8 5322 e008 7495 b3ba 5f0f f380 9164
1715 4f5a 2d30 2945 4724 e765 0320 5ddf 1db2 db20
72ef abb5 20bb 96a5 97cc ce95 6236 136a 4ecd d7fd
b0d1 49cb 4420 bee2 24e8 5b1b 0446 4fc8 3255 2929
b12a 1966 447b 5896 b837 f901 2972 508a 964b 58de
594e ce14 413d 3269 1f68 a3eb 4a7e 7909 7941 0429

5f91 c07c d521 9f1b 21ab 78d6 5e25 a9fa 7f06 3954
8b4c ae85 9b44 9e39 15ba 0f6a 1a58 73d9 c43e 11a0
8e2a c2cb e601 560b b7bb cc99 e945 2835 5d59 3825
625f 6aa4 8f5a 20e7 4c7c 062f e7b2 fac7 5ad3 b3e9
bc27 56cf 0500 12db 9812 2438 b668 7e06 e296 ccfe
dd4c fca9 3a85 3da3 b835 db6d b2ca 3634 803a dba8
c73c e564 3d28 2dc4 da0f 5be1 7c1d 9163 5c35 05fa
352d 1212 b33d 8330 c3bb 6502 213b fd66 5206 ea83
4ca8 3815 c3b6 7b08 7efb 3b76 cf8a 4633 da7c 00b5
c78b 41bc de1e 9b2f 4321 bd9a 1fe2 f2cb 620a 8b64
7263 5772 4d24 5494 9b00

20157/18241/16204 kHz, 07-12/08-12, 0600/0610/0620 UTC

Block No 0 : Total Message Size 55 blocks : This transmission contains one message.

7d,12,b0,e6,00,00,00,00,60,00,c0,00,10,00,00,00,00,0c,20,0a,00,0b,00,07,80,0e,f0,06,60,0f,60,02,00,0f,00,06

Block No 1 : Link ID 32817 : 3rd of month : Msg Number 242 : Msg Type 07145 : Group Count (?) 114

05764 45159 37764 06426 11596 39835 44537 05401

Link ID 32817, Date 3rd, Serial #97, Groups 340

1be9 8031 1684 1ef2 72e6

9384 b067 5eda cf47 4bf5 b94d 0879 a2e7 bcd0 3204
69ed dde3 40f6 2482 b58b ace7 40a7 ca81 f9a4 772d
9c64 3422 7db2 6595 Odd8 f510 accf 6cb8 67bf 5ac2
87ad b7d8 6d2c f1d2 78c8 2a17 f628 c8bd af57 4b9a
5543 819f ab0f 6a02 39e1 406a 309d 38dc e0a1 8154
ddb6 debe 32b7 100a f7cf 3e25 836c a5d9 22de a90c
30dc 4652 8a36 484f a9c8 61e2 be63 146b 65ec 8021
8840 4663 4b67 b071 ec3f ad38 b2dd 11dd ca01 74d3
8605 f8e2 ff0f 21a6 5a20 a9c8 8a6e cf6a e1fe 0e6d
e81c b0cc 4218 610b 8c86 843d e676 041e 95f3 5b80
96f9 0352 65df 7aca 30e7 662c 8431 6371 9305 65d1
e61b e3e5 dccb da11 1f68 e0ca 8bfd 589a 2c56 93f2
fbc8 ef65 caf6 71f1 bd84 ed43 9798 98b5 d08e ddeb
68fd 2799 d278 36a0 9203 35ca 794c 7273 b161 b4aa
e79d 08b1 efdd 2da6 44aa 9194 19a1 6a32 b983 5f45
fd10 2c24 b4bb 1d60 5649 3ab8 301b 1a4c 5a2e 880a
5700 5f60 8848 2027 c0ef 2d6b e647 133f bb92 8110
f29a 2904 c4a6 93d6 1543 ab60 62e4 c72e 3c29 ab13
94e1 c892 7777 cf04 ae43 9083 d395 1ddd 11e5 6c4e
cf06 bf11 b669 c8db 7157 7e2b 6f8e 3510 5150 851a
adc7 8e3b 48dc 0578 8d04 daf1 b7a5 143b 4326 48d0
d3bc fb90 ccbb 7cef ee0d dcb1 6c69 8cf8 ed28 d710
e8f1 687e d1a6 4505 b64b ba70 be7b 1c7d 789a 3a52
c9e9 ef40 fd65 f01f 2e83 7552 7d2c 8015 d311 f5e8
185f 6ae0 58ec f30a 4bf3 f82b 9a66 8143 4873 151a
43dc 27e7 751d bc22 8076 3b45 a16d 4aa8 a825 1233
0372 6cc2 2dc8 e0ac 6c24 316a 741a 1a52 011b d823
09ae 4fad 99e0 25cf 26a6 a4ae 7385 d928 8429 e350
1b90 2524 8103 6ce6 664c b9c4 2b1e 9f64 0eb2 414e
64f6 e3be c9e9 6a6b 9fd6 4277 7f88 1242 a6c4 882c
8058 97e5 37b2 22d1 06f3 ed97 8ed2 c527 e80d 4fe5
8c49 164d 28be 829d 0d87 c1db 6024 8cad 52ee 7293
4ca4 5b58 93c4 9904 2307 1196 03f0 d26b 860d 5224
0039 476d a2ae dd04 2a5b cb51 e3f4 5461 13bc daa0

20157/18241/16204 kHz, 14-12/15-12, 0600/0610/0620 UTC

Link ID 32817, Date 10th, Serial #98, Groups 281; Link ID 32817, Date 10th, Serial #99, Groups 270

Block No 0 : Total Message Size 88 blocks : This transmission contains 2 messages.

7d,1a,b0,e6,00,1e,05,01,a8,00,e0,00,20,00,00,00,00,03,20,05,00,08,00,0e,4c,0b,ec,0b,3f,07,a0,0a,42,00,5e,0b

Block No 1 : Link ID 32817 : 10th of month : Msg Number 245 : Msg Type 07145 : Group Count (?) 46

06644 35941 48752 04626 11596 06313 25980 13250

20157/18241/16204 kHz, 21-12, 0600/0610/0620 UTC

Block No 1 : Link ID 32816 : 21st of month : Msg Number 055 : Msg Type 07161 : Group Count (?) 4
23636 00128 00000 02735 62441 02389 00893 54872
7d,12,b0,e6,00,33,15,00,bc,40,f5,e8,94,10,8d,00,02,0a,33,0a,07,0f,f0,0d,39,36,e5,75,95,d8,ba,18,cf,00,30,01
Block No 1 : Link ID 32816 : 21st of month : Msg Number 055 : Msg Type 07145 : Group Count (?) 4
23636 00000 00000 02735 62440 02388 00888 54856

Link 32821

20648/18483/16196 kHz, 03-12, 1500/1520/1520 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 32821 : 3rd of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
01476 00000 00000 02920 28292 35830 00893 40304

20648/18483/16196 kHz, 10-12, 1500/1520/1520 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 32821 : 10th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
03948 00000 00000 02977 22795 36517 00893 24509

20648/18483/16196 kHz, 24-12, 1500/1520/1520 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 32821 : 24th of month : Msg Number 075 : Msg Type 07145 : Group Count (?) 4
24264 00000 00000 00292 28292 02027 00893 25074

20648/18483/16196 kHz, 31-12, 1500/1520/1520 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 32821 : 31st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
50453 00000 00000 02346 33847 33365 00893 26663

Link 36882

15623/13854/11586 kHz, 03-12/04-12, 1100/1110/1120 UTC

Link ID 36882, Date 2nd, Serial #75, Groups 331
1be9 9012 8940 14bb 68ec
6617 b169 e983 500b 8543 4e68 97a8 5983 4105 c7d1
a390 847a b0f3 e331 5335 1868 71fd 925a c192 d84f
2b3a 97d4 9b82 2384 5717 2822 5f58 1fd4 6ef9 7914
43ad 7ba6 5f45 0e98 1a9b 7262 9c57 8917 f437 4d1c
d8bf f9d8 b6d8 d658 a1f7 ae39 6d01 df0c fdf9 1837
bd44 cb15 3434 a02c 2dab 9edb 02fd 2506 0c69 d5de
93a4 5d4b c157 0c89 5871 f51a 634b 869a 3aaf e3f2
0002 1337 39c3 4bbc b1ac d209 ab08 1ea4 4d74 846d
a7b8 84ad 37ba 5767 995d f1e1 7799 c979 6818 6bb8
60d0 656a f590 eb67 29b8 b9d6 5631 02a3 3e1f 2047
8825 e453 9730 8508 1c4c 4380 5476 5c07 63c9 5e30
5e0d 3280 d78a 6630 de42 594b 79ca 0c89 9441 25d5
d1c8 8036 505d aa64 b72c c101 fc80 3287 3db6 70cf
769c abb6 9256 8915 66c0 3c82 4190 823c cbb8 b63d
eddc b6b6 c991 46fd 12ff 755d 7c9a 95da 8c70 d2d4
f65b 342c 50a9 37a5 531c 2d57 c80c 3bcf bad5 cb93
bcaa 9fb3 0e21 eb21 fe0b 20f2 c9e6 bdcc df0d d578
a6ce 32c9 e5b4 7c94 4fa5 d3b9 9a00 2307 86d8 710e
ac31 9f2f 96d9 7a03 65f7 b468 0796 8415 18a0 4c57
c700 8a55 c39d 7711 5e3a 8d8f 5dbd 10d5 d98a 38a9

c85d d57f 6442 9c03 12a9 1493 f454 1029 d695 c572
0258 1141 8308 ae5d 392c ac98 16b7 da36 d4e5 cbda
a44f 9259 0357 7b60 1341 e621 8d71 c479 95bb 29dd
4609 1f35 5f76 21dd b3df 00bd 51b8 4227 d8a6 e673
d9ac 03d4 e831 1bb5 a582 c718 b123 829e a936 1071
6b49 bb73 7995 53e4 b1a7 73bf d87b 9140 4771 0f2b
a2b9 85b9 6da9 0396 72ad 45ba e40e f737 96a8 cf24
56e7 c028 694e 2a68 6cf2 a8bb 3295 f09f 2d0e 5830
b427 3216 d297 e02d e7d9 392e 8287 1623 3463 8c73
1352 8c88 cf51 4134 4b2d 8fd1 42b5 946f 6c1a 6d36
9899 cfc1 71c6 c3e7 5154 d39a 1f8f dfaa 3485 fcf7
21e3 a7c4 1912 95e0 1fa4 9731 c6d9 b355 9476 0d79
d10f da54 ce41 14b2 0dc5 bf6b dcf9 ecc6 c056 c9d8
f200

15623/13854/11586 kHz, 10-12/11-12, 1100/1110/1120 UTC

Block No 0 : Total Message Size 50 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,60,00,20,00,10,00,00,00,00,02,20,03,00,0a,00,09,60,06,30,01,90,0b,10,05,10,04,20,0e
Block No 1 : Link ID 36882 : 9th of month : Msg Number 190 : Msg Type 07145 : Group Count (?) 76
53100 44937 17815 38115 31234 08092 42671 21579

Link ID 36882, Date 9th, Serial #76, Groups 305
1be9 9012 cf6c 5abe 4ce9
4597 af89 e983 5168 c543 3068 97a8 57e0 4102 c7d1
a391 31f8 6dc7 73b7 d659 5710 b211 d24a b6c0 39e8
476f 9186 c673 116d 46f8 107d c85a 9055 2d35 cab3
1a9c bcb9 5526 76f2 1668 f01d e5a1 8866 ac4c 13e5
c378 4730 58e7 2656 8e6f 401a a961 08a8 3d56 e37a
7935 be77 5b91 9816 c265 ca5c 9304 4a12 41ae bfff
b032 0d08 64e6 9e7f 2ed2 6ab4 8bcd 9105 2524 7163
eaba 9c33 6e03 c720 ff8b 1b7c e86d 6c12 1cc4 378b
7ac5 d810 c5e5 68f5 0d64 7a54 8a29 6024 e61c dfb6
fda2 29a4 c612 c026 9261 93c1 b22d 69f4 b6be d3d6
6154 bd55 c44a fe47 5b9d ea3a 9607 7bc6 3f53 a8c1
7aef 1765 ae51 fb01 f3d3 a8c5 d470 c838 32f7 6fd0
dfe9 bbcf c7f0 7e2d f438 2a60 3707 b183 bda3 20f7
6dc9 8fcd f0c4 f854 7975 48cf b413 87dd 6bea b4d2
b545 8005 d391 09d5 1c45 f8cc e254 8580 2ec0 02e1
bed7 6ebb bfae 0c35 f5a3 f702 5907 d632 f258 3888
4737 ed21 1de8 ec23 ca92 d065 e27a 5c92 2870 aee8
a87c a39d a4b6 7f63 68a4 aa25 4389 0942 70c6 9efd
0f89 4cc4 4d3a 1ca3 19fb c4d5 34da 14b6 0d3b df1e
23e8 cfd5 eab7 f2b9 9c92 1198 2293 a852 cd0b 2a2a
291b 599b 84e8 ca27 e842 d21e f9dc d540 fc11 bed5
927b 38b2 0559 3cd7 f072 2936 19da 7268 0962 c406
1f48 f089 4679 1866 1b13 2753 4ba9 df35 4ad0 de37
e912 2239 6590 9e4e 7e7a f7a1 d754 d066 9208 7458
f8e3 edf9 691c 2c9d 0a27 4740 db96 1da0 9471 395d
4d6f 6c32 0a15 4f65 4d7a 7a1c bc1c aace 2dca b340
a5f5 02c7 0e1a f000 5118 aba3 e63e f066 cf3a 1afc
06db 0b25 e680 79bc 5301 6d5b 7182 58c2 6a9b 232a
75ac 8255 e9cf c394 3ca2 75ab 086f 5f01 5b25 f9a8
cc0c 9a08 bb62 29f0 a07c 56c8 be49 c81f f492 d12d
3bc3 aedb 19e3 e8af b4b0

15623/13854/11586 kHz, 17-12/18-12, 1100/1110/1120 UTC

Block No 0 : Total Message Size 39 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,40,00,c0,00,10,00,00,00,00,0d,20,0e,00,08,00,06,c0,0e,b0,0a,70,0d,a0,0a,50,0a,a0,0a
Block No 1 : Link ID 36882 : 16th of month : Msg Number 192 : Msg Type 07145 : Group Count (?) 4
39232 46057 41405 38471 28573 40302 57578 46873

Link ID 36882, Date 16th, Serial #77, Groups 239

1be9 9012 9940 a0c0 04e8
a1bd b3e9 e983 5186 eb83 da68 97a8 5658 c119 c7d1
a393 62e2 187a 90db 1532 8a89 63fa e42a 41c9 4b06
813e e687 a4d4 b24b 9b2c c0a9 4b19 12b0 180c f0f5
9d59 ff8f 8a82 97bb fdcc 4e86 f824 d10c 6a1f ff1d
bb26 0f07 19fd 2907 ac04 04fc 4895 1803 2120 faea
4fc3 5a56 ec8c 1411 7fdc 0a73 46fb a002 d3cd 9abe
239c 6f7c 25a6 c855 0fe2 8da2 6079 6422 457e 1008
7859 d007 5f7d 4f46 2b04 6d0e 95f3 e8d4 cef9 d3ab
1910 28bb 603a dfc6 79d5 4ce0 9af1 8da2 033a a5e9
7989 9732 0b18 c53c b797 8dbb c3c6 7071 aa59 e3d9
ea17 630e 27be 2d2e ce69 938b 0036 bbef fa39 2f35
2062 390d c6c2 5722 7f84 5000 a3e8 c095 f1e0 b548
44e2 bdc3 3884 8b97 b973 8610 c7c3 ef75 cbe4 2b17
eb97 a9a2 c7b7 5b81 5840 4759 b9b2 b62e 6d63 ab7a
538b afd8 9949 c63b d19a 4a16 eec2 26ef 8297 5e91
a86b dc4c d4b4 7a0e 848e 6de3 2532 e4cb 4c89 9fc0
7c12 e2fe 0503 b51b ff5a e5c2 74db ef43 6cd4 17a8
bba9 3d75 95c4 a6e3 6d5b a5e7 4d94 3489 924b 5c37
755b 305d 63a1 5964 a06a ed66 5874 eea4 b919 8da8
6252 391a c62b d63d 2ca3 6bec fddb f828 bccb a7a5
32a8 0ac7 a19d 9488 5d47 d860 182e 0278 e29f 53e3
80b1 64e2 cd5f bd60 feaa 4b68 e534 932a 0218 ecb4
5c71 1a08 ccf2 ad2d d880 5e84 8574 ad2c bc51 d8a7
729d 4102 5a07 2c0f be0c 6ac2 4649 e7b5 7200

15623/13854/11586 kHz, 24-12, 1100/1110/1120 UTC

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

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

Block No 1 : Link ID 36882 : 23rd of month : Msg Number 195 : Msg Type 07145 : Group Count (?) 216

25324 47177 28537 36879 48247 02011 13830 25750

Link ID 36882, Date 23rd, Serial #78, Groups 198

1be9 9012 62ec e6c3 d8f2
6f79 b849 e983 506b a6d0 3868 97a8 689b 0126 c7d1
a392 4479 cf5a 39a6 6db9 e7f4 7117 e197 4c72 fae0
6ba6 a8e1 2f44 a958 2701 9158 6d1a 7e3b 4e1b b416
500b bec6 588d 9f9a f66f 028e 93a9 4aee 883b 6e8d
8f71 9b13 6ddd 2ca6 66ee ab89 a252 6d4e dbf6 5f90
66a7 d838 0525 69ec b59c eef0 f7f6 98b1 2071 6538
f2a7 7a1f 0e72 f91a 1cb6 7d8e bf5c f83b 5f74 5150
d00a 9401 a471 9349 32ff 5308 dd57 5eec 81a5 b961
9b68 8763 a9be 315c 8d30 1727 686a 1ce0 ed8e 20cd
2927 cacc 6770 b418 611e f2ff acaf bb6e 9363 8543
7ad1 5d3a 9d0d 0baa 9cb6 6015 3cb9 9f58 136a 3974
7b80 3ab9 56e1 eda8 a0b8 0162 8241 b221 ae9d 2f44
5977 4a22 ae19 c09d b851 b57c c985 c961 295b 102f
fdc5 fcb1 bde3 aa2c a227 f0ac f273 1361 83ba 7184
cc82 0e41 4b67 5c15 644e 551d c364 8b20 ee40 52f0
9603 1f7d d43a a575 2410 16d4 17e2 9c9e a468 3002
ac2e 8d94 3bc1 1e02 d473 ef2a 7702 1c6f c76e 7263
3fe0 97f8 04d2 fb24 4725 2c4d 1803 8d1c cbd4 b773
cc41 6781 887e 5c57 d710 a940 284d 34c6 9313 3af3
93a6 6148 6774 fc1c c45b 0b32 0f14 8d60

15623/13854/11586 kHz, 31-12, 1100/1110/1120 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 36882 : 31st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

50629 00000 00000 01519 34728 33027 00893 49954

Link 40988

8048/6789/4038 kHz, 06-12, 2300/2310/2320 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 40988 : 6th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

50540 00000 00000 03697 00624 34810 00893 01071

8048/6789/4038 kHz, 13-12, 2300/2310/2320 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 40988 : 13th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

55564 00000 00000 00014 00624 34349 00893 04205

8048/6789/4038 kHz, 20-12, 2300/2310/2320 UTC

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

7d,12,b0,e6,00,00,00,00,00,00,60,00,18,00,00,00,00,00,00,00,00,00,08,00,09,40,06,70,03,70,0e,20,0f,90,08

Block No 1 : Link ID 40988 : 20th of month : Msg Number 180 : Msg Type 07145 : Group Count (?) 4

63284 00000 00000 01550 19784 01314 00893 37513

8048/6789/4038 kHz, 27-12, 2300/2310/2320 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 40988 : 27th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

02501 00000 00000 01752 16071 35850 00893 01288

Link 41018

16321/14881 kHz, 21-12, 0200/0300 UTC

Link ID 41018, Date 21st, Serial #40, Groups 225

1be9 a03a 8000 d464 f5e8

a73a a197 8d1a 6d7e 0cba 2621 f9c8 7ab2 31e9 8740

a6ea ca4a c6bb 1849 d8cd 7d85 3497 e97c c874 d5bb

3033 6a2f 1c12 0d02 fe15 1d6e 8ce4 961a 3643 48f8

2a4f 20b9 b506 e9b1 90f6 387e 7418 b485 315a 576e

e285 abd7 3117 5c87 6487 d4ca 6aff db30 8a18 258b

0131 7c83 e902 7f47 c8e8 e137 bb15 c959 887d 18c3

d2b2 1b5c c97a c696 4123 381a 8597 440a edf9 b3ed

1b30 e519 4ccf bf1b c336 90ac ffc1 953b 7076 6d2c

f365 bddf af5e 2a15 4a2e 59b5 a08a ee09 4c86 8342

9424 c310 9b13 9cc1 7cc8 c0a8 95c2 c197 06c0 4947

2b08 7b1f f9c3 5ebc 70a5 d616 78d4 f92b c137 88be

b669 6ed8 6f93 5c27 0fd7 7d2a 504e 27c7 5fcd 1375

e1f4 0a2c 58fb f168 4ee4 aeb1 5fb7 9160 5ced b09d

8815 3fdd 1f38 3899 9499 7078 0750 129c f152 6f46

7ad3 2d96 87dd bafb 3ea2 7b54 4147 5e55 4c26 6213

eb23 abc5 a738 1ae8 ad07 1930 23d3 86a0 fcc1 8a7a

c611 30ad a858 67bb a51c fb1b 422f bd5f 8bb5 fa65

a471 74a8 66a1 ecb8 85bd 373b e212 9c34 21a9 5888

2ca5 23ce 4c34 da37 0c66 eed9 a0f6 b6ed 7c2d 79b4

cde8 4e32 cc78 0e9c c3c4 ea59 d56f d693 b069 696a

4dde 5659 51f7 d52b c000 35a0 1058 2591 bb34 d11a

0f06 3418 628f 4354 253c 0357 a41a b30c 4c92 2dd7

7295 abb8 623f 09c2 68a0

Link 45057

20951/18643/16314 kHz, 10-12/11-12/24-12, 1000/1010/1020 UTC

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

7d,12,b0,e6,00,00,00,00,40,00,a0,00,10,00,00,00,00,00,20,08,00,0e,00,0d,30,0f,e0,04,e0,07,60,0c,e0,05,90,06

Block No 1 : Link ID 45057 : 9th of month : Msg Number 225 : Msg Type 07145 : Group Count (?) 252

15452 34357 61059 28991 46156 01361 24761 26530

Link ID 45057, Date 9th, Serial #90, Groups 231

1be9 b001 3c5c 5ae1 fce1

ee83 8635 3c99 a278 8739 a8df ff47 02dd f7d9 2016
35cf ac5c 9928 8137 0e8a a952 5785 47a4 d2fa c57c
ba0c faec f194 f8c1 508d 2543 2eb8 d2b8 0e62 7238
2fc4 241d 21b1 9656 78cf 0999 45a0 0d34 774d 35f6
01ef eb1f ebbb 70a9 dd11 baf8 da8c be7e 7b8c 5583
e264 2466 e4c5 b160 5407 aa3c eae5 36e7 bc9b 3f15
c80f 366e 1520 164b 5377 d681 cd5f d15c 0f50 dc0d
ac3a 1989 40fa e114 4e77 3444 6433 6885 4794 c1cf
661a 333e 894d c1a9 849a 7a13 493d e591 8d99 a84a
5088 f283 89b8 48e7 c724 1a03 98de 521a 48b2 5842
5993 6c88 d69d a704 c96f 706e 5fa5 e1b0 6a91 bd7c
9703 c9c2 772f 1f93 d07a 6cdc 7b04 ce40 a6df 2956
d3f6 69e3 b8f2 5234 c38c 2e8f 6502 d895 ada2 465a
bf1c adca ab81 df3b c532 5421 f6a4 a825 0e7d 72e8
2da8 7cd4 ae48 7162 483c 2c4d 1961 7494 1612 19b3
9ddf e157 7e78 6982 d23e e1d9 17c3 a981 99a2 2ce0
bbb6 4b47 9f05 98fb 1250 4063 af38 4f87 5467 8562
32cd 1abc 0759 ee3b 718b 682a 7650 c072 7453 94a6
d137 7c22 0946 f314 a4f6 3660 1eea a8bd 68a7 55fb
d928 51b2 6e23 57ac 63d6 2d9c 2eb5 5d96 e806 b6b8
e7b4 9a63 8939 92bc 3cb7 3296 52e6 0303 aab 15a5
1d35 2905 b699 d692 a144 e15b 71e7 da08 2157 af25
496a 18d7 75df e29d 1df3 a273 6593 c6d4 07b3 b3c0
867d

Link 45075

20838/18294/16313 kHz, 07-12, 0800/0810/0820 UTC

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

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

Block No 1 : Link ID 45075 : 7th of month : Msg Number 087 : Msg Type 07145 : Group Count (?) 4

39940 00000 00000 02911 14597 34400 00893 11371

20838/18294/16313 kHz, 14-12, 0800/0810/0820 UTC

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

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

Block No 1 : Link ID 45075 : 14th of month : Msg Number 007 : Msg Type 07145 : Group Count (?) 4

50544 00000 00000 02728 09055 34013 00893 38071

20838/18294/16313 kHz, 21-12, 0800/0810/0820 UTC

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

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

Block No 1 : Link ID 45075 : 21st of month : Msg Number 120 : Msg Type 07145 : Group Count (?) 4

02364 00000 00000 03300 26649 03650 00893 27377

20838/18294/16313 kHz, 28-12, 0800/0810/0820 UTC

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

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

Block No 1 : Link ID 45075 : 28th of month : Msg Number 072 : Msg Type 07145 : Group Count (?) 4

00549 00000 00000 04020 26649 34963 00893 30373

Link 45079

6788/5384/4454 kHz, 04-12/19-12, 0500/0510/0520 UTC

Russian diplo/intel. Null msg on link 45079

Link 45114 / 45115

13938/12136/10314 kHz, 10-12/11-12, 0900/0910/0920 UTC

Link ID 45114, Date 9th, Serial #45, Groups 84

1be9 b03a 5d38 5a70 5ceb

757e f524 ab72 cced 5b8e 75ba 5e4c 94c2 2e33 441e
4e1a 4a71 ec7d 387d 2660 0741 d004 949e 40b1 b89a
dbca 3670 2176 9378 cc8e 0b56 082e 97c3 4b98 f414
995b b90a 5bee dbf5 3ea0 92d5 5767 d4f7 1d87 90f3
3c68 9cf3 73c1 0f90 dd66 b676 3b5d 16eb b428 c745
56e8 47b0 50e8 076c 4db8 3384 1f5b f563 ab80 d031
05fc 05b8 549c cf92 5ac5 1c47 d8cd a3f1 054a 766c
47b7 a059 f0d6 2d00 cd0c 49ca 3299 7bab 1a50 d6b5
ef25 d7ad 3ca1 5a00

13938/12136/10314 kHz, 24-12, 0900/0910/0920 UTC

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

7d,12,b0,e6,00,00,00,00,00,20,00,c0,00,10,00,00,00,00,0e,20,02,00,0d,00,05,20,08,e0,09,b0,0f,f0,03,b0,0d,10,0d

Block No 1 : Link ID 45114 : 23rd of month : Msg Number 115 : Msg Type 07145 : Group Count (?) 146

03228 50596 58352 27971 65008 03207 29078 27349

Link ID 45114, Date 23rd, Serial #46, Groups 134

1be9 b03a 0c9c e673 92e8

e3f0 c5a4 ab72 ccc4 dd1f 65ba 5e4c 8ef5 6db7 441e
4e1a 67df 7085 91e1 73f1 cda1 56f7 a24f 40ab 318c
242e 1511 c8d9 e3cf 90ad 8620 ba38 afda 6a3a 22d2
c2ba cf06 06b1 7d5a bbb7 8a46 d964 18b6 4787 fddc
6420 08b7 facc 7e21 dd98 38e8 794d ae77 8a96 3d7d
12b1 b880 10ae 6b14 3426 b6a8 487b c9a6 c5a1 010d
0477 90ce 466a b7e0 fa76 71bd 92c6 4718 c985 d13b
4d93 f209 c31e ef9a 50c6 8c41 118f 9807 9482 0671
1422 1e0a 1516 195e cf10 20d7 169c 0029 4486 103b
7481 8ccd 8823 83c9 ddd0 9455 1b30 eaad 2b52 4f88
d195 144e 2413 9c1f 05f3 6050 9749 6fda 709f f257
226a 4f70 1dbd cee4 e677 32e3 5008 5bd4 daa5 411a
b402 ab2e 5e25 63c6 72f1 d389 b5a0 4888 3fdf 87fa
ae9b 08de 6099 9900

Link 49202

20983/19139/17463 kHz, 07-12, 1000/1010/1020 UTC

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

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

Block No 1 : Link ID 49202 : 7th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4

35268 00000 00000 00802 34046 34017 00893 46128

20983/19139/17463 kHz, 14-12, 1000/1010/1020 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49202 : 14th of month : Msg Number 107 : Msg Type 07145 : Group Count (?) 4
58712 00000 00000 02130 44300 35793 00893 02663

20983/19139/17463 kHz, 21-12, 1000/1010/1020 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49202 : 21st of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
22796 00000 00000 02201 28271 34948 00893 03678

20983/19139/17463 kHz, 28-12, 1000/1010/1020 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49202 : 28th of month : Msg Number 110 : Msg Type 07145 : Group Count (?) 4
13565 00000 00000 01445 44300 01127 00893 14692

Link 49237

12169/10364/8168 kHz, 01-12, 1330/1340/1350 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49237 : 1st of month : Msg Number 235 : Msg Type 07145 : Group Count (?) 4
62552 00000 00000 03118 58545 00666 00893 29234

12169/10364/8168 kHz, 08-12, 1330/1340/1350 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49237 : 8th of month : Msg Number 070 : Msg Type 07145 : Group Count (?) 4
28860 00000 00000 03916 44260 01682 00893 26589

12169/10364/8168 kHz, 15-12, 1330/1340/1350 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 49237 : 15th of month : Msg Number 187 : Msg Type 07145 : Group Count (?) 4
50976 00000 00000 02140 39258 33820 00893 00521

12169/10364/8168 kHz, 22-12/23-12, 1330/1340/1350 UTC

Block No 0 : Total Message Size 68 blocks : This transmission contains 2 messages.
7d,12,b0,e6,00,00,02,00,8c,00,60,00,20,00,00,00,00,05,20,01,00,05,00,07,c2,0e,94,08,d0,01,59,07,d1,0d,af,0d
Block No 1 : Link ID 49237 : 21st of month : Msg Number 062 : Msg Type 07145 : Group Count (?) 140
00508 55239 16529 17454 58545 33057 00313 58368

Link ID 49237, Date 21st, Serial #25, Groups 128; Link ID 49237, Date 21st, Serial #26, Groups 276

1be9 c055 01fc d23e 8ce8
4091 d7c7 2ab3 0775 cdb9 03e1 6483 b05f a415 b68f
af79 6263 37b8 8704 271a 5e28 4509 eef4 3826 c44b
0803 26be dcc9 f238 490a f9bc b144 c3a1 4aa7 21d2
c980 792c 47e2 49d1 49da 7664 1994 65c2 0ae5 e2ac
a90f 6204 55d9 5260 0b30 c569 01c6 8084 074f 1232
ec56 944a 0b07 a14e dcac f953 e3f0 e321 ae0e d92f
8983 3c2b 1152 0f81 71e7 06b4 e344 b20f c338 109d
ea56 a1a9 3def 9d19 33b9 7523 2892 3c42 c249 ab02
010b 7d7e 2ca6 ddc1 f2b2 fbf2 330d 9489 9e1d e397
57f5 28d4 53a4 b7c8 530a b8e0 559d 5f6a 711d 5b20
382f 8c2f face c0a0 f9d8 4c23 59c3 b18f 79cd 2f4f
1aef 221e 27e2 c0f5 a95e e9ec 69c7 3c5d 4812 4cab
9350 dea9 1202 026c 1484 618c 97c5 48a0

1be9 c055 de74 d241 34ed
46d1 d7c7 2ab3 07c5 0db9 03e1 6483 bcef a415 b68f
af7a fe44 93be bfb5 bd84 9568 d292 4849 67db 0fc9
d010 7446 e7d5 be18 3a2b e9a9 18cd 7a3d 1a8a e2e6
16e6 47d0 5ccc 9cb0 1586 bbfc f750 5b31 bf26 1de1
a131 813a fdf0 f916 155c d9cc 16d6 7891 3657 3d52
7582 68ad 705c 4d50 0464 6ad0 6ced cd38 59d0 1d17
cb92 01d2 a7a2 46a5 73a2 7795 ef3a f2d1 7b7e 6871
05b1 eb33 ed9c b4d6 739b 81b9 34b8 4dba 62f2 69bb
9792 87aa 7028 4fed 75cc 4c75 71ec ed63 7a0d 08e0
73f9 9dbd 1852 24e7 b083 cf75 f9f5 b946 f5f1 3470
eddc 448a 4f02 4e34 7906 70ab b941 d41c 009b 44eb
0457 d316 2afc 44a6 c1b6 fcf0 117a 2a51 c3d3 454e
8c57 b80b 9d53 9705 4d04 b54e 1f8c 38a2 10f8 6da1
886b 96b9 4705 9a6c 86d7 ae8c 343e 60d2 ef73 d2dd
6011 43a5 a4ab c9eb 7b9a 46e9 63db 05f0 ec28 4dc8
19d5 44de ce6a e2e6 8421 f185 b835 76ff 8c0a 25d0
2c2c 0b12 96d4 638d 8f09 6440 6e3f b350 0c9a ef55
47e7 f1ca a562 dc91 560d 678c aa60 b8ac 857a 1ade
596c ad29 4ec7 6ee3 78e8 a244 0592 35d6 ba2a 0d5b
7463 1454 04b2 c635 21f2 884e 41ed 9805 4a9c f491
6768 1ad3 1050 4571 dab0 16c4 4ca0 92f0 ec63 a6b1
2c4a 9ba3 bd22 b51d b37e c85f 08e2 6c86 b697 394d
1e3f 0b82 3140 774e 8476 5786 3adf 25ae e790 19d7
3066 581a 8417 693a 28f4 1456 4e6e be87 8e57 32f0
4935 421d ea92 ef40 4c2b 308c ac03 dae1 850d 69c8
0b93 5b10 fb02 f112 f66d eb10 d10c 6585 0d02 f7a5
23e4 d8fc f3f4 3342 e583 21f5 cbda 9698 f547 1a6f
fed0 1cf9 c58f 101a 5a70 0f00

12169/10364/8168 kHz, 29-12, 1330/1340/1350 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains 7 messages.
7d,12,b0,e6,00,00,00,00,00,00,60,00,70,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0d,80,08
Block No 1 : Link ID 49237 : 29th of month : Msg Number 040 : Msg Type 07145 : Group Count (?) 4
10053 00000 00000 02537 58545 01550 00893 32168

Link 53277

17478/15838/13387 kHz, 07-12, 1230/1240/1240 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 53277 : 7th of month : Msg Number 002 : Msg Type 07145 : Group Count (?) 4
48908 00000 00000 00459 15966 34088 00893 30164

17478/15838/13387 kHz, 21-12, 1230/1240/1240 UTC

Block No 0 : Total Message Size 4 blocks : This transmission contains one message.
7d,12,b0,e6,00,00,00,00,00,00,60,00,10,00,00,00,00,08,20,04,00,04,00,08,40,0b,40,06,70,03,70,0e,20,0f,90,08
Block No 1 : Link ID 53277 : 21st of month : Msg Number 162 : Msg Type 07145 : Group Count (?) 4
56988 00000 00000 03141 15966 36539 00893 39537

X06 - Mazielka

Freq	Date	UTC	Day	Sequence
18177	10-12	0904	Sat	Mazielka. Sequence: 164253
13924	10-12	0920	Sat	Mazielka. Sequence: 164253
20334	10-12	0937	Sat	Mazielka. Sequence: 164253
15710	11-12	1140	Sun	Mazielka. Sequence: 261453
9162	12-12	1401	Mon	Mazielka. Sequence: 364152
12177	12-12	1418	Mon	Mazielka. Sequence: 364152
13547	16-12	1034	Fri	Mazielka. Sequence: 625413

Freq	Date	UTC	Day	Sequence
10193	20-12	1026	Tue	Mazielka. Sequence: 164521
16188	20-12	1157	Tue	Mazielka. Sequence: 325614
12177	23-12	0932	Fri	Mazielka. Sequence: 356412
6866	25-12	1825	Sun	Mazielka. Sequence: 145632
12109	26-12	1005	Mon	Mazielka. Sequence: 431625
9061	28-12	0835	Wed	Mazielka. Sequence: 412356 and 134265
13419	28-12	0851	Wed	Mazielka. Sequence: 465132
13985	28-12	0853	Wed	Mazielka. Sequence: 134265
11493	23-12	1038	Fri	Mazielka. Sequence: 1--6--



XPA

Mode: MFSK-20/10Bd

7756/9056/10656 kHz, 03-12, 0700/0720/0740 UTC

706 706 706 000
05461 00001 00000 10140

7756/9056/10656 kHz, 07-12/10-12, 0700/0720/0740 UTC

706 706 706 1 706 706 706 1 706 706 706 1
08405 00135 37981 18343 38768 97047 88952 72870 97858 38090
56194 53125 79076 58899 93007 02444 50294 52263 38926 14627
89488 25814 68134 92958 14531 77575 57667 95512 77950 12402
65493 73824 21232 22788 66615 30653 27502 41502 62090 08602
17865 45860 18383 00280 60511 57325 64706 01929 62438 50228
10348 30918 84218 41171 29381 24085 05967 19984 12861 17727
32609 55146 87797 90156 37254 41354 47355 29056 21185 08189
68900 93677 47586 93318 24088 05961 95409 49989 58322 21964
11071 31908 57108 66254 72113 32045 57103 08363 64085 42401
44416 38116 92419 96552 57509 13580 24759 10905 33057 58769
21198 32556 92423 99418 32140 41807 60352 18283 93136 72649
08116 49994 69411 85742 37342 01592 31646 87518 00237 90345
98614 43008 05533 76488 54799 86711 81179 43478 75341 52539
61492 67222 90188 27428 39871 22218 79708 66577

7756/9056/10656 kHz, 14-12, 0700/0720/0740 UTC

706 706 706 000
03419 00001 00000 10140

7756/9056/10656 kHz, 17-12, 0700/0720/0740 UTC

706 706 706 000
07514 00001 00000 10140

7756/9056/10656 kHz, 21-12/24-12, 0700/0720/0740 UTC

706 706 706 1 706 706 706 1 706 706 706 1
09634 00225 09215 55454 20118 43976 58735 22544 65391 15353
68701 51101 19070 15305 56929 33824 07177 20481 41636 03884
00126 19002 88196 50128 61920 10950 07942 02581 14512 10364
70177 05263 54198 05981 83047 69872 38402 55892 13778 33050
99899 54044 88946 59288 76209 92198 54659 91664 01415 42883
66466 89146 24789 41789 68242 48276 32509 58430 09273 07004
98964 65944 57518 27007 64094 20632 37560 83713 39978 35418
35222 65520 96949 17407 48543 75580 92000 62125 39595 05163
28683 01735 43118 13874 96158 98346 76610 31729 66495 90137
96164 96142 01308 57379 18772 58659 53971 09194 75163 21927

44599 46201 17745 20574 02572 32888 07858 67719 69772 88773
72291 29008 45044 33815 25060 77898 83927 53665 60443 43534
87699 07483 89502 03766 61333 54781 83703 20753 79493 96878
34871 27455 89086 39287 93570 66268 61976 22304 52993 41205
50967 76115 01333 68272 66817 26849 35598 82534 20596 53881
27577 52338 09840 89959 68044 32954 27510 63068 67750 78186
18066 01191 75992 60109 65465 62089 01689 10212 30822 78265
25313 34199 20677 73826 29065 02049 31192 36461 49991 01065
41881 39316 18521 40986 30245 80404 54316 19896 82436 39533
54520 16609 72228 58225 78916 06168 23779 99211 93788 12479
65103 42379 68701 07687 80239 76231 12885 65971 07017 23194
29368 67753 90120 22318 64644 07731 53523 98022 54351 71839
27546 80286 80009 22708 28732 43978 68730 70312

7756/9056/10656 kHz, 28-12, 0700/0720/0740 UTC

706 706 706 000
08727 00001 00000 10140

7756/9056/10656 kHz, 31-12, 0700/0720/0740 UTC

706 706 706 000
05440 00001 00000 10140



XPA2

Mode: MFSK-16/20Bd

13393/14493/16293 kHz, 02-12, 0700/0720/0740 UTC

05790 00001 00000 10140

15967/13884/12217 kHz, 02-12/03-12, 1400/1420/1440 UTC

08014 00081 02553 28669 30472 03536 11033 36336 20333 23353
49216 59741 51005 98763 93789 72554 08002 00345 78904 06614
96645 43133 22017 52440 99069 78988 83161 99526 52881 82940
25538 30326 81834 14471 40478 13407 50274 98368 38434 84006
42986 46312 89772 05392 11157 55547 54722 18692 99440 15597
15231 25393 34924 82533 57306 61657 41550 94409 25772 74225
26259 72847 34190 26941 94422 03988 91439 06055 55479 33540
84602 60747 61775 20291 71633 13854 73086 59465 27894 35675
83133 58227 74437 42554

14538/13538/12138 kHz, 04-12, 1300/1320/1340 UTC

05936 00001 00000 10140

15861/14761/13561 kHz, 05-12, 0800/0820/0840 UTC

01435 00001 00000 10140

13393/14493/16293 kHz, 06-12/09-12, 0700/0720/0740 UTC

02103 00065 72158 43932 40372 41209 00820 36006 70251 75637
62031 08778 13580 28251 00625 61257 00942 51837 07200 42030
03509 78075 38630 39638 85560 32866 05054 18860 70533 55888
25064 32888 33686 00038 68336 83606 62326 28086 57768 60773
33658 11147 18105 83372 77763 67877 81666 12443 88116 08033
44112 21467 28857 38322 88035 18547 17558 26173 13334 74460
80813 63343 37416 61463 99323 61136 24105 00075

14538/13538/12138 kHz, 06-12, 1300/1320/1340 UTC
02004 00001 00000 10140

15861/14761/13561 kHz, 07-12, 0800/0820/0840 UTC
06316 00001 00000 10140

15967/13884/12217 kHz, 09-12, 1400/1420/1440 UTC
02450 00001 00000 10140

15967/13884/12217 kHz, 10-12, 1400/1420/1440 UTC
04977 00001 00000 10140
At 1400 UTC: 04977 00001 00000 off before the end

14538/13538/12138 kHz, 11-12/13-12, 1300/1320/1340 UTC
00333 00089 10288 92913 41214 58835 33979 00997 95956 88234
04749 80524 87697 08433 09523 87975 88453 97703 67028 37778
56862 02965 29381 50030 80108 86549 61342 11964 46979 09497
15135 61542 13339 10546 31250 94915 58725 09166 77411 93517
55137 19426 44972 42447 10360 12129 05540 41477 06002 87095
69737 95705 78503 00789 71489 07497 80633 38245 93544 19086
97918 54419 43406 97119 52636 01157 83062 40768 24916 71619
06229 30241 53346 05880 00496 72891 99570 08241 42078 67762
56531 17092 93921 90872 41777 53453 92695 29755 02222 71147
02870 71262

15861/14761/13561 kHz, 12-12/19-12, 0800/0820/0840 UTC
03143 00001 00000 10140

13393/14493/16293 kHz, 13-12, 0700/0720/0740 UTC
09305 00001 00000 10140

15861/14761/13561 kHz, 14-12, 0800/0820/0840 UTC
03702 00001 00000 10140

13393/14493/16293 kHz, 16-12, 0700/0720/0740 UTC
01933 00001 00000 10140

15967/13884/12217 kHz, 16-12, 1400/1420/1440 UTC
03564 00001 00000 10140

15967/13884/12217 kHz, 17-12, 1400/1420/1440 UTC
04078 00001 00000 10140

14538/13538/12138 kHz, 18-12/20-12, 1300/1320/1340 UTC
08108 00067 67294 16920 54006 56403 60616 25757 76779 00613
36815 61508 85325 03314 60367 20722 88523 03372 63636 02666
08670 66553 20822 08445 16883 86888 82280 81637 82582 30732
82355 83350 63776 13535 21568 50323 85860 64883 33343 04648
10076 65536 82638 64560 55646 30658 56608 35511 44687 28678
58333 33600 82366 88263 48106 26611 22308 48280 35365 43548
67417 88666 61663 85448 25566 66361 23608 07903 00645 34433

13393/14493/16293 kHz, 20-12/23-12, 0700/0720/0740 UTC
04878 00115 10324 46930 75085 46335 17151 19861 32750 67845
27936 06997 74318 35187 50029 32824 64121 65550 53582 86326
88998 49016 86822 08924 66260 96085 92997 65098 00272 18122
82388 21843 58898 33906 46155 09785 75725 27585 52785 62922
30689 80787 76258 00644 78678 52803 22016 38062 41196 76916
97776 39579 78737 76386 23487 30201 36084 08401 54813 04665
91994 93354 51441 62032 72932 28494 58200 27400 77998 40799

15530 89364 50408 62848 85633 27596 94112 44217 86283 76497
36435 56513 59472 58425 12844 09718 16314 95763 34986 51566
72851 13624 25137 81564 58613 91004 81796 68853 94012 11477
26666 68338 05841 95664 12799 33481 63561 58348 17898 14841
12418 53842 37854 98199 39803 01499 57085 13500

15861/14761/13561 kHz, 21-12, 0800/0820/0840 UTC

06671 00001 00000 10140

15967/13884/12217 kHz, 23-12/24-12, 1400/1420/1440 UTC

01302 00051 56481 07769 60204 03570 85827 83680 34363 08998
66117 75370 57869 02909 17551 17541 07905 28500 58278 82360
28653 82659 77323 07384 34443 71014 20958 46586 09940 35916
24857 64086 79719 32525 23046 23443 24561 08398 21976 87752
56076 12690 77471 04753 82651 12990 29637 40020 15625 42630
97368 52488 16298 65421

15861/14761/13561 kHz, 25-12/28-12, 0800/0820/0840 UTC

08262 00189 71403 68420 75504 35953 63042 72236 16830 22501
06957 66611 45244 93125 63719 96173 49839 20587 85085 21982
69190 53744 76728 08252 85391 69347 07909 17443 45114 39863
56764 91827 65030 12523 84404 54167 53293 18965 31884 82567
50299 16690 02778 11759 11974 43249 56041 09511 41097 44848
56364 12496 22470 48848 19760 60753 81052 01643 86379 96896
07895 64079 23293 87342 38971 05061 09250 39688 16618 76771
29444 61825 74306 90386 87189 64048 62110 61757 70355 77702
24024 22538 05487 09632 40855 48620 70953 58219 19593 60284
97807 02064 37667 03802 71841 57623 00240 87683 65346 84818
58816 54975 01684 91733 28172 34154 62600 79544 34140 33629
57169 39867 69331 94469 33501 22374 19561 67783 25375 05349
04160 12309 53500 79596 24374 27607 66941 81135 99157 28296
62103 31152 96123 68138 26259 60898 61192 51793 61445 82884
20212 21504 41843 86114 31623 14029 48791 23003 76709 96033
10124 06813 97278 93990 66245 80902 36739 54476 88863 43346
71317 84331 63113 02377 69273 07374 72496 94403 58046 12192
32966 63825 85145 25841 49865 24240 90390 30091 98432 35370
46928 18350 02385 00357 95155 60146 29418 30863 84769 72575
37123 06073

13393/14493/16293 kHz, 27-12, 0700/0720/0740 UTC

01884 00001 00000 10140

13393/14493/16293 kHz, 30-12, 0700/0720/0740 UTC

08147 00001 00000 10140

15967/13884/12217 kHz, 30-12/31-12, 1400/1420/1440 UTC

09329 00123 13362 75293 58010 86449 60826 59064 47556 00966
81575 33290 44166 10907 66282 81973 63398 88883 15887 75868
44494 26087 66565 98190 07384 06122 83264 67433 16549 49194
39023 23288 94676 84231 72645 44618 02083 33042 88323 40117
71841 55602 08066 19562 82450 96322 12187 50626 40318 21603
87136 84975 91704 38885 32047 27894 57510 90620 12312 96973
36188 16378 02687 96348 47809 69096 38465 59788 86433 84752
35447 03981 70944 34940 84607 57230 66218 29886 90837 23235
42257 64315 11822 25959 08817 73569 07884 41139 15199 11328
84992 35273 84440 63793 26722 71477 38451 85792 13812 16993
58009 61370 08209 55521 47750 07311 97263 82522 57722 57227
46560 04337 72626 26902 87852 38309 55539 81523 97844 68828
31958 59 59856 08939 31142 49250 06505



F11

Mode: FSK 100/620

7772 kHz, 06-12/08-12, 0630/0635 UTC (started 2 mins late at 0632 UTC)

0574 0574 0574 0574 0574
88888 88888 87685 44273 81357 71569 40670 54376 38707 99382
54883 35611 13591 85356 63984 66057 32980 57161 48118 00458
84492 13297 82599 85384 54467 45147 45433 14535 84801 46509
93315 33956 43260 79421 64484 33486 30361 81986 51660 88888
88888
00041 00041

16388 kHz, 06-12, 0730/0735 UTC

0433 0433 0433 0433 0433
88888 88888 47318 86949 16573 37576 87205 26271 93902 63090
35858 01551 20452 27152 26320 01028 73997 74059 40875 46847
00588 11476 21759 38501 26900 49701 68643 32344 61095 42947
52735 66672 38939 31331 01125 99704 25094 88888 88888
00039 00039

7863 kHz, 06-12/07-12, 1150/1155 UTC

0325 0325 0325 0325 0325
88888 88888 20826 54972 63914 41593 70806 32033 50723 08647
19505 89744 06347 16174 49824 35412 78532 23008 79202 68567
73253 42358 60293 89337 64328 39948 92478 59896 33255 04842
92573 74000 47322 88888 88888
00035 00035

5831 kHz, 07-12, 0300/0305 UTC

0231 0231 0231 0231 0231
88888 88888 40013 88293 39886 28708 47046 89954 88127 78560
85060 90358 91108 54116 44098 25963 65118 21741 67634 15470
51003 67744 17366 31195 53845 25554 04283 58212 10036 64368
82550 11277 73948 05324 92119 05599 28903 94303 68423 32795
88888 88888
00042 00042

9370 kHz, 12-12/14-12, 0845/0850 UTC

0353 0353 0353 0353 0353
88888 88888 51156 98712 97789 81161 02777 41684 70712 06430
55917 02271 36700 02675 94898 66232 08838 13988 41785 81141
87551 48136 93781 62025 15465 27899 50104 65146 17576 57064
69622 44386 77020 64382 88888 88888
00036 00036

7499 kHz, 13-12/16-12, 0900/0905 UTC

0554 0554 0554 0554 0554
88888 88888 16805 63841 16270 30755 49788 98482 99290 70880
86118 02095 44392 58045 11084 02102 83531 87135 82890 72504
56256 78139 74470 60363 93224 30882 96343 75924 62485 80192
01051 32177 71020 88888 88888
00035 00035

6836 kHz, 19-12/21-12, 0800/0805 UTC

0434 0434 0434 0434 0434
88888 88888 95267 41633 18190 98244 15926 87313 63861 89322
16262 82875 59994 00878 89266 74504 61755 23144 20706 96026
64267 50938 06879 96102 34089 97892 59508 70201 11267 03879
83063 74624 98652 88888 88888
00035 00035



Q26 - Chinese military

Mode: 4+4 QPSK 75/3000 LSB

8048 kHz, 07-12, 1543 UTC

VYDT VYDT VYDT YU VSF57 VSF57
YY HR ++ TO U PSE CY
++ ++
0228 0048 6276---7205=6265
A3I=O2P
HR ++ AGN
0228 0048 6276---7205=6265
A3I=O2P
F BHXZ BHXZ BHXZ DE VSF57 VSF57 VSF57
F BHXZ BHXZ BHXZ DE VSF57 VSF57 VSF57
F BHXZ BHXZ BHXZ DE VSF57 VSF57 VSF57
XYXYXYXY
HR MSG TO U PSE CY
0227 20 51 1207 2100
6276---7624=6265
1073 6328 8833 9578 7206 8560 5533 7755 2382 5041
4824 1889 7535 2546 4900 5245 5450 8851 1679 1758
HR MSG AGN
0227 20 51 1207 2100
6276---7624=6265
1073 6328 8833 9578 7206 8560 5533 7755 2382 5041
4824 1889 7535 2546 4900 5245 5450 8851 1679 1758
HR NIL SK

4433 kHz, 10-12, 2302 UTC

FHMT FHMT IK QSA ? ///
FHMT FHMT IK QSA ? ///
WBKXY
FHMT FHMT FZMIK QSA ? ///
WBK
QSA ? ///
IK QSA ? ///
IK QSA ? ///
IK QSA ? ///
XY
FHMT FHMTIK QSA ? ///
IK QSA ? ///
XY
FHMT FHMT FZMIK QSA ? ///
8
FHMT FHMT IK QSA ? ///
2?2XY
FHMT FHMT FZM QSA ? ///
FHMT FHMT FZ QSA ? ///

OBPXY
FHMT FHMT IK QSA ? ///
WBKXY
FHMT FHMT IK QSA ? ///
8?({
FHMT FHMT IK QSA ? ///
T FHMT ? ///
XY
FHMT FHMT IK QSA ? ///
WBKXY
FHMT FHMT FZMIK QSA ? ///
XY
FHMT FHMT ? ///
BK
FHMT FHMT? ///
2?({
FHMT FHMT IK QSA ? ///
FHMT FHMT IK QSA ? ///

Note:

When they send XY it usually means that a message is to follow; but this is the first time I have seen only one XY, usually it is a whole line of them, followed by the actual message.

8048 kHz, 11-12, 1433 UTC

F IPZS IPZS IPZS DE VSF17 VSF17 VSF17
F IPZS IPZS IPZS DE VSF17 VSF17 VSF17
F IPZS IPZS IPZS DE VSF17 VSF17 VSF17
XYXYXYXYXY HR ++ TO U PSE CY

++ ++
0234 0108
4074---7366=4041
J8I=D4E
HR ++ AGN
0234 0108
4074---7366=4041
J8I=D4E

F XKBR XKBR XKBR DE VSF17 VSF17 VSF17
F XKBR XKBR XKBR DE VSF17 VSF17 VSF17
F XKBR XKBR XKBR DE VSF17 VSF17 VSF17
XYXYXYXYXY HR MSG TO U PSE CY
0235 140 51 1211 2114
4074---7210=4041
1073 6328 8833 9578 7206 8560 5533 7755 2382 5041
4824 1889 7535 2546 4900 5245 5450 8851 1679 1758
1564 0297 8539 0125 0183 2058 1692 6819 2503 1472
5463 0685 0583 4319 5392 4730 9025 0852 0317 5602
6839 1978 3659 0428 3945 5892 0675 0145 1425 6185
8596 6895 4539 5409 2785 3421 8419 5712 3TORU
1345 4586 6427 7356 1978 0639 9310 8915 4973 0621
6485 3470 7823 8639 0759 6849 0312 9638 5869 +218
6485 3470 7823 8639 0759 6849 0312 9TIYO TWQI
1345 4586 6427 7356 1978 0639 9310 8915 4973 0621-1
8596 6895 4539 5409 2785 3421 8419 5712 3615 5947
6839 1978 3659 0428 3945 5892 0675 0145 1425 6185
85463 0 PTIE REQO TEOW RUEP OPWT PITW PEQU TYPW
1564 60297 8539 1025 0183 2058 1692 6819 2503 1472
HR MSG AGN
0235 140 51 1211 2114

4074---7210=4041

1073 6328 8833 9578 7206 8560 5533 7755 2382 5041
4824 1889 7535 2546 4900 5245 5450 8851 1679 1758
1564 0297 8539 0125 0183 2058 1692 6819 2503 1472
5463 0685 0583 4319 5392 4730 9025 0852 0317 5602
6839 1978 3659 0428 3945 5892 0675 0145 1425 6185
8596 6895 4539 5409 2785 3421 8419 5712 RU
1345 4586 6427 7356 1978 0639 9310 8915 4973 0621
8596 6895 4539 5409 2785 3421 8419 5712 3615 5947
6839 1978 3659 0428 3945 5892 0675 0145 1425 6185
5463 0685 0583 4319 5394EP OPWT PITW PEQU TYPW
1564 0297 8539 1025 0183 *058 1692 6819 2503 1)7.

F AQXM AQXM AQXM DE VSF17 VSF17 VSF17
F AQXM AQXM AQXM DE VSF17 VSF17 VSF17
F AQXM AQXM AQXM DE VSF17 VSF17 VSF17
XYXYXYXYXY HR MSG TO U PSE CY

0233 10 51 1210 2158

4074---7204=4041

5463 0.85 0583 4319 5392 4730 9025 0852 0317 5602
HR MSG AGN

0233 10 51 1210 2158

4074---7204=4041

5463 0685 0583 4319 5392 4730 9025 0852 0317 5602

F KVMZ KVMZ KVMZ DE VSF17 VSF17 VSF17
F KVMZ KVMZ KVMZ DE VSF17 VSF17 VSF17
F KVMZ KVMZ DE VSF17 VSF17 VSF17

XYXYXYXYXY HR MSG TO U PSE CY

0232 60 51 1210 1910

4074---7021=4041

1564 0297 8539 0125 0183 2058 1692 6819 2503 1472
5463 0685 0583 4319 5392 +730 9025 0852 0317 5602
6839 1978 3659 0428 3945 5892 0675 0145 1425 6185
8596 6895 4539 5409 2785 3421 8419 5712 3615 5947
1345 4586 6427 7356 1978 0639 9310 8915 4973 0621
6485 3470 7823 8639 0759 6849 0312 9638 5869 5218
HR MSG AGN

023 TQ QWQP QOQP

4074---7021=4041

1564 0297 8539 0125 0183 2058 1692 6819 2503 1472
5463 0685 0583 4319 5392 +730 9025 0852 0317 5602
6839 1978 3659 0428 3945 5892 0675 0145 1425 6185
8596 6895 4539 5409 2785 3421 8419 5712 3615 5947
1345 4586 6427 7356 1978 0639 9310 8915 4973 0621
6485 3470 7823 8639 0759 6849 0312 9638 5869 5218
HR NIL SK

8048 kHz, 16-12, 1300 UTC

F SFBT SFBT SFBT DE VSF46 VSF46 VSF46
F SFBT SFBT SFBT DE VSF46 VSF46 VSF46
XYXYXYXYXY HR ++ TO U PSE CY

++ ++

0242 1908

H8T=X4R

HR ++ AGN

++ ++

0242 1908

H8T=X4R

F HVXL HVXL HVXL DE VSF46 VSF46 VSF46

F HVXL HVXL HVXL DE VSF46 VSF46 VSF46
F HVXL HVXL HVXL DE VSF46 VSF46 VSF46
XYXYXYXYXY HR MSG TO U PSE CY
0243 51 100 1216 2158
5065---6024=5054
7915 5826 2758 9465 3814 2793 6205 7256 4950 7391
4138 9025 0925 3148 1387 7851 5187 2178 4836 0254
3406 1829 0261 1846 6458 7912 4126 2647 7385 4620
8536 2597 5084 0724 3186 5638 1650 8943 2094 0461
2705 9358 1451 8697 5146 0603 7617 4014 1382 2676
3521 8651 9751 2990 6431 7519 3298 1218 6157 0985
2606 5871 0751 8021 6920 7960 5022 3615 0445 7439
4433 6208 8272 8338 0871 9893 0561 6963 6370 2046
3406 1829 0261 1846 6458 7912 4126 2647 7385 4620
8536 2597 5084 0724 3186 5638 1650 8943 2094 0461-1
HR MSG AGN
0243 51 100 1216 2158
5065---6024=5054
7915 5826 2758 9465 3814 2793 6205 7256 4950 7391
4138 9025 0925 3148 1387 7851 5187 2178 4836 0254
3406 1829 0261 1846 6458 7912 4126 2647 7385 4620
8536 2597 5084 0724 3186 5638 1650 8943 2094 0461
2705 9358 1451 8697 5146 0603 7617 4014 1382 2676
3521 8651 9751 2990 6431 7519 3298 1218 6157 0985
2606 5871 0751 8021 6920 7960 5022 3615 0445 7439
4433 6208 8272 8338 0871 9893 0561 6963 6370 2046
3406 1829 0261 1846 6458 7912 4126 2647 7385 4620
8536 2597 5084 0724 3186 5638 1650 8943 2094 0461-1
F FJLE FJLE FJLE DE VSF46 VSF46 VSF46
F FJLE FJLE FJLE DE VSF46 VSF46 VSF46
F FJLE FJLE FJLE DE VSF46 VSF46 VSF46
XYXYXYXYXY HR MSG TO U PSE CY
0241 50 51 1215 2112

8048 kHz, 26-12 , 1534 UTC

F BRHQ BRHQ BRHQ DE VSF73 VSF73 VSF73
F BRHQ BRHQ BRHQ DE VSF73 VSF73 VSF73
F BRHQ BRHQ BRHQ DE VSF73 VSF73 VSF73
XYXYXYXYXY HR ++ TO U PSE CY
++ ++
0262 2328
2132---3216=2127
S5X
HR ++ AGN
++ ++
0262 2328
2132---3216=2127
S5X
F CGXF CGXF CGXF DE VSF73 VSF73 VSF73
F CGXF CGXF CGXF DE VSF73 VSF73 VSF73
F CGXF CGXF CGXF DE VSF73 VSF73 VSF73
XYXYXYXYXY HR ++ TO U PSE CY
++ ++
0261 0428
2132---3210=2127
U9S=JOP
HR ++ AJT++ ++
0261 0428
2132---3210=2127
U9S=JOP

F WIMZ WIMZ WIMZ DE VSF73 VSF73 VSF73
F WIMZ WIMZ WIMZ DE VSF73 VSF73 VSF73
F WIMZ WIMZ WIMZ DE VSEVSF73 VSF73
XYXYXYXY HR MSG TO U PSE CY
0260 122 51 1225 2200
2132---3197=2127
9876 5456 7897 6543 4567 8927 6543 2145 6789 8765
3876 5136 7876 5432 3467 8907 6543 2346 7876 5432
1234 6789 8765 4321 2345 6789 8765 4321 2345 6789
9815 6098 5601 3985 6103 9578 1309 5310 9534 0298
0948 3715 0913 8760 9137 8560 9134 8756 0913 4857
0983 4756 3943 8609 1384 6039 8134 1098 6098 0918
2984 8750 9198 5710 5871 3095 8713 0598 7134 0901
0987 6543 2123 4567 8909 8765 4321 3456 7894 7531
6098 5601 3985 6103 9578 1309 5310 9534 0298 7134
9198 5710 5871 3095 8713 0598 7134 0901 4576 7894-1
5456 7897 6543 4567 8927 6543 2145 6789 8765 6578
6098 5601 3985 6103 9578 1-09 5310 9534 0298 7129
7293 4651
HR MSG AGN
0260 122 51 1225 2200
2132---3197=2127
9876 5456 7897 6543 4567 8927 6543 2145 6789 8765
3876 5136 7876 5432 3467 8907 6543 2346 7876 5432
1234 6789 8765 4321 2345 6789 8765 4321 2345 6789
9815 6098 5601 3985 6103 9578 1309 5310 9534 0298
0948 3715 0913 8760 9137 8560 9134 8756 0913 4857
0983 4756 3943 8609 1384 6039 8134 1098 6098 0918
2984 8750 9198 5710 5871 3095 8713 0598 7134 0901
0987 6543 2123 4567 8909 8765 4321 3456 7894 7531
6098 5601 3985 6103 9578 1309 5310 9534 0298 7134
9198 5710 5871 3095 8713 0598 7134 0901 4576 7894-1
5456 7897 6543 4567 8927 6543 2145 6789 8765 6578
6098 5601 3985 6103 9578 1309 5310 9534 0298 7129
7293 4651
HR NIL SK
TCN
F BRBQ BRHQ BRDE VSSF73 VSF73
F BRHQ BRHQ DE VSF73 VSF73 VSF3
F BRHQ BRHQ BRHQ DE VSF73 VSF73 VSF73
XYXJXXY HR ++ TO U PSE CY
++ ++
0262 2328
2132---3216=2127
S5X
HR ++ AGN
++ ++
0162 2328
2132---3216=2127
S5X
F CGXF CGXF CGXF DE VSF73 VSF73 VSK73
F CGXF CGXF CGXF DE VSF73 VSF7
CGXF CGXF CGXF DE VSF73 VSF73 VSF73
XYXYXYXY HR ++ TO U PSE CY
++ "++
+261 0428
2132---3210=2127
U9S=JOP
HR ++ AGN
++ ++Q PRWI

2132---3210=2127

U9SKVJOP

F WIMZ WIMZ WIMZ VSF73 VSF73 VSF73

F WIMZ WIMZ VSF73 VSF73 VSF73

F WIMZ WIMZ WIMZ DE VSF73 VSF73

#

XYXYXYXYX HR MSL U PSE CY

0260 122 51 1225 2200

2132---3197=2127

9876 5456 7897 6543 4567 8927 6543 2145 6789 8765

3876 5136 7876 5432 3467 8907 6543 2346 7876 5432

1234 6789 8765 4321 2345 6789 8765 4321 2345 6789

9815 6098 5601 3985 6103 9578 1309 5310 9534 0298

0948 3715 0913 8760 9137 8560 9134 8756 0913 4857

0983 4756 3943 8609 1384 6039 8134 1098 6098 0918

2984 8750 9198 5710 5871 3095 8713 0598 7134 0901

0987 6543 2123 4567 8909 8765 4321 3456 7894 7531

6098 5601 3985 6103 9578 1309 5310 9534 0298 7134

9198 5710 5871 3095 8713 0598 7134 0901 4576 7894-1

5456 7897 6543 4567 8927 6543 2145 6789 8765 6578

6098 5601 3985 6103 9578 1309 5310 9534 0298 7129

7293 4651

HR NQ SK T QC UKS

7698 kHz, 26-12, 1500 UTC.

Voice callup in Chinese by a female operator "This is 3196", followed by Q26

JJC

XYXYXYXYX PSE U MSG GA

XYXYXYXYX PSE U MSG GA

XYXYXYXYX PSE U MSG GA

XYXYXYXYX PSE U MSG GA

USNYM

XYXYXYXYX PSE U MSG GA

XYXYXYXYX PSE U MSG GA

XYXYXYXYX PSE U MSG GA

USNYM

XYXYXYXYX QSL2226 BOZ NIL SK

XYXYXYXYX QSL2226 BOZ NIL SK

XYXYXYXYX QSL2226 BOZ NIL SK

XYXYXYXYX QSL2226 BOZ NIL SK

D

HR IS SYRW SYRW SYRW HR IS SYRW SYRW SYRW

HR IS SYRW SYRW SYRW HR IS SYRW SYRW SYRW

HR IS SYRW SYRW SYRW HR IS SYRW SYRW SYRW

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HR ZNN SK ZNN SK

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HR ZNN SK ZNN SK

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HR IS SYRW SYRW SYRW HR IS SYRW SYRW SYRW
HR ZNN SK ZNN SK
AQCEX



XSL a.k.a. Slot Machine
Japan Maritime Self-Defense Force
海上自衛隊 Kaijō Jieitai

Copied on 4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8588, 8703.5 kHz, 08-12, 0618 UTC
Copied on 4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8588, 8703.5 kHz, 30-12, 1747 UTC



Egyptian diplomatic stations

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

19100.7 kHz, 19-12, 0716 UTC, SITOR-S 100/170
5120 kHz, 28-12, 2015 UTC, SITOR-A/B 100/170
7777 kHz, 29-12, 1550 ITC, SITOR-A 100/170

MFA Cairo clg OOVK Egyptian embassy Jakarta
Egyptian diplo clg OOVK: Egyptian embassy Islamabad, followed by msg "
KDS KPDKJ KYKM HOKDS JG KDCFUSG ODS 5605 5605 5605 5605 KY"
MFA Cairo msg to embassy Islamabad

UTILITY ROUND-UP

JP and André copied quite some Japanese Navy and Air Force Morse traffic.
Possibly an exercise as these stations are seldom reported.

5055 kHz, 05-12, 0950 UTC, CW

QRK 3 K
DE JJT55 QRK 3 K
DE JJS21 QRK 2 K
DE JJZ37 QRK 2 K
DE JJT44 QRK 3 K
DE JJU22 QRK 4 K
AS
JJT55 JJS21 JJV56 DE JJT88 QRK ?
DE JJT55 QRK 3 K
DE JJS21 QRK 2 K
JJU22 DE JJT88 QSP ? JJS21 JJV56 QRK ? K
DE JJU22 QSP JJS21 QRK 2 K
DE JJT88 R II QSP ? JJV56 QRK ? K
DE JJU22 AS EEEEE AS
JJV56 JJV56 DE JJU22 JJU22 QRK ? K
DE JJV56 QRK 4 K
DE JJU22 R QRK 4 II QSP ? AS EEEE QSP ?
R II QSP JJT88 QRK ? K

DE JJV56 QRK 1 K
 DE JJU22 R VA VA
 JJT88 JJT88 DE JJU22 JJU22 QSP JJV56 QRK 1 K
 DE JJT88 R AS
 R
 CQ CQ CQ DE JJT88 JJT88 JJT88 R QRK 1 Q4 VA EEEEE II QSY K
 DE JJT20 R VA
 DE JJT55 R VA
 DE JJS21 R VA
 DE JJZ37 R VA
 DE JJV46 R VA
 DE JJU22 R VA
 JJU22 DE JJT88 QSP ? JJS21 JJZ37 EEEEE QSP ? JJS21 JJV56 JJZ37 R ? K
 DE JJU22 QSP JJS21 JJZ37 R K
 DE JJT88 R II QSP ? J EEEEE EEEEE II QSP ? JJV56 R ? K
 DE JJU22 R AS
 JJV56 R EEEEE
 JJV56 DE JJU22 QSP JJT88 R ? K
 AS
 R
 JJU22 DE JJV56 QRK 1 K
 JJV56 DE JJU22 QSP JJT88 R ? K
 AS
 R

4577.5 kHz, 08-12-2016, 1240 UTC

DE JJB20 K
 HR MO2/V AR
 LG R MF AR C . AA AA W48BO8OL
 NR 181 FF 08 19.EEEEE FF 08 1930 =
 ZZSD.PZD3PZ FPUSZSZ3 PZD.. (Cont'd)
 (Sending lots of unknown characters - presuming Japanese characters)
 AR K
 DE JJA20 R 181 VA
 DE JJE20 R 181 VA
 RPT 14 II 15 II 300 K
 80 PO.R 140 EEEEE II 140 S QSP II 150 C AA O.. II 300 DFAAU K
 DE JJ...
 JJA20 JJD20 JJE20 JJB20 DE JJC20 VA
 JJA20 JJD20 JJE20 JJB20 DE JJC20 QRU ? K
 DE JJA20 QRU K
 DE JJD20 QRU K
 DE JJE20 QRU K
 DE JJB20 QRU K
 DE JJC20 QRU VA
 DE JJA20 VA
 DE JJE20 U EEEEEVA
 DE JJB20 VA

3210 kHz, 11-12, 0905 UTC VVV VVV JJX25
 3195 kHz, 12-12, 0733 UTC VVV VVV JJT88 K and JJT88 AR
 3691 kHz, 12-12, 0738 UTC VVV VVV JJT88 K and JJT88 AR
 3390 kHz, 12-12, 0738 UTC VVV VVV VVV JJT88 VA
 3210 kHz, 12-12, 0930 UTC JJX25 VVV VVV JJX25 AR
 2685 kHz, 12-12, 1002 UTC JJT30 de JJT44 RPT AL AR K
 5055 kHz, 13-12, 0950 UTC JJT44 JJU22 JJT20 JJV56 JJT88 (comms checks)
 3195 kHz, 13-12, 0956 UTC JJT88 wkg JJT22 (comms checks)
 3210 kHz, 13-12, 1000 UTC JJT88 wkg JJX25 JJX36 JJZ59 JJZ48 JJZ26 (comms checks)
 2671 kHz, 13-12, 1004 UTC JJU22 wkg JJU33 JJU55 (comms checks)
 5055 kHz, 14-12, 0950 UTC JJT88 comms checks with JJT20 JJT55 JJS21 JJV56 JJZ37 JJT44 JJU22

3195 kHz, 14-12, 0953 UTC JJT88 comms checks with JJT20 JJT55 JJS21 JJV56 JJZ37 JJT44 JJU22
2685 kHz, 14-12, 1000 UTC JJT44 comms checks with JJT30 JJT88 JJW35 JJV89 JJV40 JJW46 JJS76 JJT99
3210 kHz, 22-12, 1000 UTC JJT88 comms checks with JJX25, JJX36, JJZ59, JJZ48, JJZ26
2685 kHz, 22-12, 1000 UTC JJT44 comms checks with JJT30, JJT88, JJW35, JJV89, JJV40, JJW46, JJS76, JJT99

5055 kHz, 22-12, 0950 UTC, simplex net

JJT88 comms checks with JJT20, JJT55, JJS21, JJV56, JJZ37, JJT44, JJU22
DE JJV56 R VA
DE JJZ37 R VA
DE JJT44 R VA
DE JJU22 R VA

Japanese Navy / Naval Air callsigns:

JJA20 Sapporo
JJB20 Sandai
JJC20 Tokyo
JJD20 Osaka
JJE20 Kumamoto

Japanese Air Force callsigns:

JJS21 Misawa
JJS76 ?
JJT20 ?
JJT30 ?
JJT44 Irumagawa
JJT55 Fuchu
JJT88 Tokyo
JJT99 ?
JJU22 Asahikawa
JJU33 Yozadake
JJV40 ?
JJV46 ?
JJV56 Hamamatsu
JJV89 ?
JJW35 ?
JJW46 ?
JJX25 Miho
JJX36 Bofu
JJZ26 Nyutabaru
JJZ37 Itazuke
JJZ48 Tsuiki
JJZ59 Ashiya Fukuoka



Unid stations

Copied by JPL and André via remote receivers in Korea and Japan. Possibly M89/M95 related.

3603 kHz, 08-12, 1110 UTC, i.p.

VVV XCM XCM XCM DE WOB WOB QRU
7641 7641 VA MKKK

4242 kHz, 09-12, 1210 UTC, i.p.

VVV FHJ FHJ FHJ DE B3R B3R QR
7552 7552 VA VA

3758 kHz, 10-12, 1842 UTC, i.p.

VVV 3BN 3BN 3BN DE 9L4 9L4 QRU
4812 4812 SK AK T

3152 kHz, 11-12, 0800 UTC, i.p.

54602 31955 82001 10040 21004 84032 35723 980500 88/// =
54661 32878 02004 10058 24030 1027 40264 57018 ... =
54725 32801 62501 10088 21047 40253 5701386/// =
54753 32964 32201 10087 21038 30248 40256 57030 82///

3791.5 kHz, 11-12, 1438 UTC, i.p. 001 wkg 345 089 comms checks and msg NR347 ... RKMS
2473 kHz, 11-12, 0919 UTC, i.p. FMG de 87L QSA 55 ? ? QRX
2479 kHz, 11-12, 0919 UTC, i.p. FMG de 87L QSA 55 ? ? QRX
4011 kHz, 11-12, 1303 UTC, i.p. 8D1: msg NR 056 CK 56 ...12 11 2101 RMKS 4292 TO 4202 =
2957.8 kHz, 11-12, 1540 UTC F12 wkg 62SF 64SF (comms checks)
4524 kHz, 21-12, 1708 UTC, i.p. HL41 DE 6HR2 QSY 51085 51085 K
5821 kHz, 21-12, 0406 UTC, i.p. VVV 1GM DE E2F QSA 5 .. SK OK VVV W5A DE E2F QSA 4 TB VA OK

Unid station X2M

JP sent me several logs from unid station "X2M". He heard it via the remote receiver in New Zealand.

7920//8250//8410 kHz, 29-12, 0930 UTC, CW machine sent, i.p.

U73D4 3NT6A U3NT5 4NT6A 5A7UD N465A
AR ZOM15

CQ CQ CQ DE X2M X2M VVV
CQ CQ CQ DE X2M MSG MSG ENG ENG
CQ CQ CQ DE X2M X2M VVV
CQ CQ CQ DE X2M MSG MSG ENG ENG MSG ENG
2131 CK 100 CK 100 TIME 1648 TIME 1648 DATE 2912 DATE 2912 =
UNN5A 4UAD5 N4T63 7U43N A7UD4 (Cont'd) AR

7920//8250//8410 kHz, 30-12, 0930 UTC, CW, i.p.

CQ (x3)DE X2M (x2) VVV (x2)
MSG ENG ENG
CQ (x3) DE X2M (x2) VVV (x2)
MSG MSG ENG ENG
NR 11 11 CK 110 CK 110 TIME 1631 TIME 1631 DATE 3012 DATE 3012 =
546UT 6.NT. 4TA.. (Cont'd) AR
NR .3 NR .3 CK ..0 CK 1.0 TIME 1637 163. DATE 3012 DATE 3012 =
T45A6 TT.7U 6.... (Cont'd) AR
06 06 CK 100 CK 100 TIME 1643 TIME 1643 DATE 3012 DATE 3012 =
T673. 73NT. 5T3A7 (Cont'd) AR

7920//8250//8410 kHz, 31-12, 0931 UTC, CW, i.p.

CQ (x3) de X2M (x2) VVV
MSG MSG ENG ENG
01 01 CK 100 CK 100 TIME 32 TIME 1632 DATE 3112 DATE 3112 =
54.UT .UNT7 4TA7. 6573A T4A6D 3.47. (Cont'd) AR
04 04 CK 100 CK 100 TIME 1638 TIME 1638 DATE 3112 DATE 3112 =
D4... T6A. U 6U.3N 4NT6A DAN46 AU3NT D33T7 (Cont'd) AR
... CK 100 CK 100 TIME 1643 TIME 1644 DATE 3112 DATE 3112 =
T6734 .3NT6 5T3A7 T576U (Cont'd)

It is interesting that it uses the time and date indication in English. Even more interesting is the fact that the station hasn't been reported during the past 15 years, at least not on WUN or UDXF. The station was reported in June 2001 by Igor, from his location in Chita, S.E Russia. After all these years I still have no idea who this is. Ideas anyone?

Igor's logs from 2001:

8399 kHz, 06 June 2001, 2300 UTC:

VVV CQ CQ CQ DE X2M X2M
MSG MSG ENG ENG MSG ENG
NR 01 NR 01 CK 100 CK 100 TIME 1900 TIME 1900 DATE 0706 DATE 0706 =
followed by 5FGs

8397 kHz, 08 June 2001, 1240 UTC

VVV CQ CQ CQ DE X2M X2M
MSG MSG ENG ENG MSG ENG
NR 04 NR 04 CK 100 CK 100 TIME 0740 TIME 0740 DATE 0906 DATE 0906 =
followed by 5FGs

8398 kHz, 11 June 2001, 1203 UTC

CQ CQ CQ DE X2M X2M VVV
CQ CQ CQ DE X2M X2M VVV
CQ CQ CQ DE X2M X2M VVV
MSG MSG CH CH
MSG CH
NR 03 NR 03 CK 100 CK 100 TIME 0701 TIME 0701 DATE 1206 DATE 1206 =
35109 57381 79563... 54632 95762 48902 AR

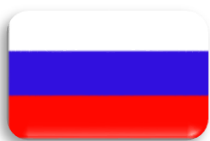
NR 04 NR 04 CK 100 CK 100 TIME 0706 TIME 0706 DATE 1206 DATE 1206 =
90718 68731 56732... 05164 97143 08246 AR

8398 kHz, 12 June 2001, 1209 UTC

NR 21 NR 21 CK 100 CK 100 TIME 0707 TIME 0707 DATE 1306 DATE 1306 =
04951 01298 16059... 30241 89106 70815 AR

RUSSIAN MILITARY TRANSCRIPTS

Excerpt from logs submitted by Ary, JPL, Tom, André (via Japan and S. Korea), Danix, Sylvain, Ron



M32
Russian / CIS Military CW Stations

4245 kHz, 01-1248 UTC, i.p.

17850 61052 84053 82036 03515 21833 25308 81204 99960 02105
89250 78949 32355 52793 48759 85623 55326 42830 03739 01487
01032 =
WFZE WFZE WFZE DE OAKC OAKC QTC 910 35 1 1540 910 =
434 991 112 =
11111 03739 01487 34994 10567 51144 35432 53626 63519 53334
92626 14361 17850 61052 84053 82036 03515 21833 25308 81204
99960 02105 89250 78949 32355 52793 48759 85623 55326 42830
03739 01487 01032 AR

5376 kHz, 08-12, 2011 UTC, i.p.

WTYO DE Z73V QTA 301 K

7678 kHz, 10-12, 0605 UTC (QSX on 7854 kHz)

K1B4 wkg 12SS

7678 kHz, 10-12, 0706 UTC, i.p.

KGML KGML KGML DE K1B4 K1B4 K

QSA?

BK

RPT K

SK K1B4 K

TXT8 TXT8 TXT8 DE K1B4 K1B4 K

K1B4 QSA? K

K1B4 K

SGIW SGIW SGIW DE K1B4 K1B4 K

K1B4 R K

5SAR 5SAR 5SAR DE K1B4 K1B4 K

K1B4 QSA? K

K1B4 R K

KS2L KS2L KS2L DE K1B4 K1B4 K

K1B4 QSA? K

K1B4 R K

ZHK6 ZHK6 ZHK6 DE K1B4 K1B4 K

K1B4 QSA ? K

K1B4 K

9115 kHz, 10-12, 0940 UTC

XXX XXX RAU89 RAU89 18626 DOPARSKIJ 2339 0842 K

4582 kHz, 10-12, 1721 UTC, i.p.

... 4714 69970 62697 87937 31333 59780 02795 26580 97739 09475

06666 23282 82707 87755 33511 44785 49064 48837 06985 89053

52971 11985 87241 92803 98588 41472 34976 98972 00646 33199

28818 09924 64850 52587 56785 76599 03930 71276 10085 K

RDL RDL RDL

11111 25676 39380 37396 37396 37379 86487 67745 74180 64564

47060 99732 81145 50831 85229 40960 67184 56003 79390 84984

79124 51926 02371 79379 26927 33695 26515 60605 35608 15898

98438 77498 56988 89513 58163 667S8 46135 85917 17696 26150

87950 64125 97729 68618 37547 51675 47539 10047 K

XXX XXX into T600 50/200 traffic

4855 kHz, 22-12, 2223 UTC. i.p.

QSY 22116 K

8ARV DE KHJV K

8ARV DE KHJV 23606 QSY 23606 QSY F

QSA 4 QSA ? K

ZL QRU ?

ZVP K. ZVP K. ZVP K. ZVP K

DE S6DE SLV ZVP K

BK BK QRV K

7988 kHz, 22-12, 0042 UTC, i.p.

QTC AR 3DWN 3DWN 3DWN QTC AR

3DWN 3DWN 3DWN 795 33 220331 795 =

349 = DDDD (Cont'd)



M32a
Russian Navy
Voyenno-Morskoy Flot Rossii

15586 kHz, 05-12, 1040 UTC

XX XX RJV RJV 87863 OGTASIM 8568 2753 K RAJONE 31/23 S 032/28 W 31/30 S 032/28 W 31/30 S 032/52 W 31/23 S 032/52 W
OTM ÉTOT NR 29 1400 DEK +

RIP90 RIP90 RIP90 DE RCV RCV IIII RIP90 RIP90 RIP90 DE RCV RCV QTC 428 28 2 1258 428 =
NAWAREA 032 706 KARTA 32206 TURCIÄ STRELXBY 05 06 I 08 DEK 0600 DO 1305 SAPOIE 055 CENTROM 38/31 S 025/07 W OTM
ÉTOT NR 08 1400 DEK =

RIP90 RIP90 RIP90 DE RCV RCV QTC 428 28 2 1258 428 =
NAWAREA 032 706 KARTA 32206 TURCIÄ STRELXBY 05 06 I 08 DEK 0600 DO 1306 SALDIE 055 CENTROM 38/31 S 025/07 W OTM
ÉTOT NR 08 1400 DEK +

RBE86 RBE86 RBE86 DE RCV RCV QTC 588 36 2 1252 588 =
NAWIP 038 2246 KARTY 32311 93240 ITALIÄ UÖENI Ä WOENNO MORSKIE PO 30 DEK KROME SUBBOT I WOSKRESENIJ 0700 DO
2300 PLAWANIE ZAPREQENO RAJONE T 833 CENTROM 40/12 S 017/20 W OTM ÉTOT NR 30 2359 DEK

RBE86 RBE86 RBE86 DE RCV RCV QTC 588 36 2 1252 588 =
NAWIP 038 2246 KARTY 32311 93240 ITALIÄ UÖENIÄ WOENNO MORSEUIE PO 30 DEK KROME SUBBOT I WOSKRESENIJ 0700 DO
2309 PLAWANIE ZAPREQENO RAJONE T 833 CENTROM 40/12 S 017/20 W OTM ÉTOT NR 30 2359 DEK

RIP90 RIP90 RIP90 DE RCV RCV QTC 429 74 2 1300 429 =
NAWIP 033 2241 KARTA 32221 TURCIÄ STRELXBY ARTILLERIJSKIE 06 DEK 1100 DO 35 RAJONE 35/40 S 029/20 W 35/50 S 029/20
W 35/50 S 029/50 W 35/40 S 029/50 W OTM ÉTOT NR 06 1400 DEK NAWIP 032 2239 KARTA 32200 TURCIÄ STRELXBY
ARTILLERIJSKIE 05 I 06 DEK 0300 DO 055 SIHSIE 40/36 S 028/10 W 40/41 S 028/10 W 40/41 S 028/26 W 40/36 S 028/26 W OTM
ÉTOT NR 06 1007 SES

RIP90 RIP90 RIP90 DE RCV RCV QTC 429 74 2 1300 429 =
NAWIP 033 2241 KARTA 32221 TURCIÄ STRELXBY ARTILLERIJSKIE 06 DEK 1100 DO 35 RAJONE 35/40 S 029/20 W 35/50 S 029/20
W 35/50 S 029/50 W 35/40 S 029/50 W OTM ÉTOT NR 06 1400 DEK NAWIP 032 2239 KARTA 32200 TURCIÄ STRELXBY
ARTILLERIJSKIE 05 I 06 DEK 0300 DO 0855 SIHSIE 40/36 S 028/10 W 40/41 S 028/10 W 40/41 S 028/26 W 40/36 S 038/3 IIII 40/36
S 028/26 W OTM ÉTOT NR 06 1007 SES

RIP90 RIP90 RIP90 DE RCV RCV QTC AUTTATM 40 0038 421 =
NAWAREA 033 693 KARTA 32226 UÖENIÄ WOENNO MORSKIE 01 PO 27 DEK KROME SREDY 0500 DO 2107 SIHSIE 34/35 S 034/36
W 35/40 S 035/00 W 35/40 S 035/20 W 34/35 S 035/30 W OTM ÉTOT NR 27 2200 DEK =

RIP90 RIP90 RIP90 G I N ADER 6IA+V ROR PBL 1 40 30 0038 4Z
RIP90 RIP90 RIP90 DE RCV RCV COR PBL 421 40 30 0038 421 +
RIP90 RIP90 RIP90 DE RCV RCV QTC 421 40 30 0038 421 =
NAWAREA 033 693 KARTA 32226 UÖENIÄ WOENNO MORSKIE 01 PO 27 DEK KROME SREDY 0500 DO 2107 SIHSIE 34/35 S 034/36
W 35/40 S 035/00 W 35/40 S 035/20 W 34/35 S 035/30 W OTM ÉTOT NR 27 2200 DEK +

RIP90 RIP90 RIP90 DE R II II RIP90 RIP90 RIP90 DE RCV RCV QTC 419 46 29 1304 419 =
NAWIP 032 2220 KARTA 32207 TURCIÄ STRELXBY ARTILLERIJSKIE 05 PO 07 DEK 0500 DO 1500 RAJONE 38/37 S 026/46 W 38/33 S
026/38 W 38/41 S 026/34 W 38/51 S 026/36 W 38/51 S 026/47 W 38/44 S 026/45 W OTM ÉTOT NR 07 1600 DEK =

RIP90 RIP90 RIP90 DE RCV RCV QTC 419 46 29 1304 419 =
NAWIP 032 2220 KARTA 32207 TURCIÄ STRELXBY ARTILLERIJSKIE 05 PO 07 DEK 0500 DO 1500 RAJONE 38/37 S 026/46 W 38/33 S
026/38 W 38/41 S 026/34 W 38/51 S 026/36 W 38/51 S 026/47 W 38/44 S 026/45 W OTM ÉTOT NR 07 1600 DEK +

RIP90 RIP90 RIP90 DE RCV RCV QTC 324 42 30 1354 324 =
NAWIP 032 1998 KARTY 31017 93241 GRECIÄ STRELXBY RAKETNYE I ARTILLERIJSKIE PO 31 DEK SREDAM ÖETWERGAM
PÄTNICAM I SUBBOTAM 0530 DO ZAHODA SOLNCA RAJONE GAMMA CENTROM 35/56 S 025/24 W OTM ÉTOT NR 31 1615 DEK
OTM 032 550/16 I ÉTOT PUNKT =

RIP90 RIP90 RIP90 DE RCV RCV QTC 324 2 30 1354 324 =
NAWIP 032 1998 KARTY 31017 93241 GRECIÄ STRELXBY RAKETNYE I ARTILLERIJSKIE PO 31 DEK SREDAM ÖETWERGAM
PÄTNICAM I SUBBOTAM 0530 DO ZAHODA SOLNCA RAJONE GAMMA CENTROM 35/56 S 025/24 W OTM ÉTOT NR 31 1615 DEK

OTM 032 550/16 I ÉTOT PUNKT +

RIP90 RIP90 RIP90 DE RCV RCV QTC 321 48 29 1328 321 =

NAWIP 032 1998 KARTA 32206 TURCIÄ STRELXBY 01 PO 03 NOÄB 0600 DO 1145 07 09 I 1 NOÄB 05 06 08 19 20 22 24 PO 27 29 I
31 DEK 0600 DO 1300 RAJONE 075 CENTROM 38/31 S 025/07 W OTM ÉTOT NR 31 1400 DEK =

RIP90 RIP90 ORIP90 DE RCV RCV QTC 321 48 29 1328 321 =

NAWIP 032 1990 KARTA 32206 TURCIÄ STRELXBY 01 PO 03 NOÄB 0600 DO 1145 07 09 I 21 NOÄB 05 06 08 19 20 22 24 PO 27 29 I
31 DEK 0600 DO 1395 SAJDIE 965 CENTROM 38/31 S 025/07 W OTM ÉTOT NR 31 1400 DEK +

RIP90 RIP90 RIP90 DE RCV RCV QTC 281 30 12 0003 281 =

NAWIP 032 18TS8 KARTA 35264 IZMIRSKIJ ZALIW UNIÖTOVENIE BOEZAPASA PO 12 DEK 0530 DO 1430 RAJONE RADIUSOM 2400
METROW IZ 38/32/6 S 026/42/4 W OTM ÉTOT NR 12 1530 DEK =

RIP90 RIP90 RIP90 DE RCV RCV QTC 281 30 12 0003 281 =

NAWIP 032 1878 KARTA 35264 IZMIRSKIJ ZALIW UNIÖTOVENIE BOEZAPASA PO 12 DEK 0530 DO 1430 RAJONE RADIUSOM 2400
METROW IZ 38/32/6 S 026/42/4 W OTM ÉTOT NR 1ÜT 1530 DEK +

9115 kHz, 10-12, 1205 UTC. RIR98 = Navy ship PM-56

RCV DE RIR98 608 19 10 1500 608 = SML FOR RJE73 RJH45 =

10121 99358 10348 41497 42307 10190 40210 57001 70200 84310 22200 00192 20000 88000 80000 10015 =
+ RIR98 K

12464 kHz, 18-12, 0630 UTC (RMCW: Russian Navy Ship Donuzlav)

RCV DE RMCW QYS8

08692 456627 FENENKO 1400

08692 230745 WOROCHILOW 1405

08692 450720 IQENKO 1410

08692 922231 MOLODOW 1415

08692 482473 CHALEW 1420 K

5066 kHz, 19-12, 0606 UTC (RMGZ: Russian Navy Ship Epron)

RCV DE RMGZ 781 18 19 0900 781 = SML FOR RJH45 RJE73 =

19061 99437 10293 42497 12904 10044 40320 54000 70202 81/// 22200 00088 20101 329// 19014 =
+ RMGZ K

12464 kHz, 19-12 (RMCW: Russian Navy Ship Donuzlav / RKO81: Russian Navy Ship AO Lena)

1208 UTC RIW DE RHO81 781 19 19 1500 781 = SML FOR RJH45 RJE73 =

19121 99372 70032 41598 81009 10180 40080 56020 70222 88460 22213 00160 29/// 88000 80000 19015 =
+ RKO81 K

0910 UTC RCV DE RMCW 933 18 19 1205 933 = SML FOR RJE73 RJH45 RJH48 =

19091 99146 10416 42998 01308 10270 40156 580 22200 00264 20302 88000 80000 19013 =
+ RMCW K

1212 UTC RCV DE RMCW 423 18 19 1504 423 = SML FOR RJE73 RJH45 RJH48 =

19121 99145 10415 42998 01408 10275 40139 57027 22251 00266 20302 88000 80000 19013 =
+ RMCW K

1414 UTC RCV DE RMCW 307 34 19 1703 307 = SML FOR RJE73 RJH45 = KKXXX

19126 1310/ 11438 04143 88870

1509 UTC RCV DE RKO81 986 39 19 1800 986 = SML = 11111 50935 92242 43659 19037 = + RKO81 K

4044 kHz, 18-12, 0944 UTC RJS Pacific Fleet HQ, Vladivostok wkg

4198 kHz, 17-12, 1536 UTC RGG89 wkg RJS

6193 kHz, 16-12, 0646 UTC RJD97 wkg RMEG

6367 kHz, 16-12, 0445 UTC RJS Pacific Fleet HQ, Vladivostok wkg RMEG

7522 kHz, 20-12, 0640 UTC RJD97 wkg RMEG

7973 kHz, 19-12, 0332 UTC RJS wkg RFE70

8018.5 kHz, 21-12, 0622 UTC RCY7 wkg RJF95

8040 kHz, 19-12, 0330 UTC RJS wkg RFE70

9203 kHz, 16-12, 0822 UTC RCC Naval Station, Petropavlovsk Kamchatskly wkg RJI39

5417kHz, 20-12, 0618 UTC

RJD97 wkg RMEG: 317 26 20 0315 317 =

AAAAA WEDGO UEXJY LMTVH DPEMF JLOKA MNKSL AYWNB ZRXKC GERYQ LDHUS ACRPL XPSKU VQETA BGQOE UÔYMT FVLIX
 ZYORS ANDEX CÂELT KAKOD IAQBU MCRÂÛ WKLNG FGGKI BKKBD =
 AR RJD97 K

3254 kHz, 13-12

0911 UTC, i.p. RGG89 wkg RCC: 10030 20304 899// = AR RGG89 K - RCC R 835 - RGG89 QRU K

1201 UTC RGG89 wkg RCC: 438 18 13 1501 438 = FOR R..45 RJH48 RJE60 FM RGG89 =
 13121 99490 11548 41/98 92711 11008 40078 52021 70022 8///// 22252 06030 20304 398// =
 AR RGG89 K - RCC R438 K - RGG89 OK QRU K

1503 UTC RGG89 wkg RCC: 135 18 13 1801 135 = FOR RJH45 RJH48 RJE60 FM RGG89 =
 13151 99486 11543 41/98 92708 11014 40082 52041 70222 8///// 22252 00028 20202 399// =
 AR RGG89 K - RCC R 135 - RGG89 OK QRU K

1805 UTC RGG89 wkg RCC: 622 16 13 2101 622 = FOR RJH45 RJH48/ RJE60 =
 13181 99482 11539 41/98 92807 11021 40064 58018 70222 8///// 22252 00018 20203 399// =
 AR RGG89 K - RCC R 622 K - RGG89 QRU K

3335 kHz, 13-12

1214 UTC RAG57 QTC SML. RAG57 OK QRU K

1401 UTC RAG57 wkg RJD93. Comms checks. RAG57 QTC 884 30 13 1700 884 = FM RAG57 FOR RJS RJC60 = 11111 ...

5478 kHz

15-12, 0932 UTC RJS Pacific Fleet HQ, Vladivostok wkg ships

18-12, 0933 UTC RJS Pacific Fleet HQ, Vladivostok wkg RGG89
 523 16 18 1221 523 = SML = 11111 60189 86983 70173 66694 17630 31003 44875 68265 20613
 81740 76418 34681 48427 31862 18016 = AR RJS K

19-12, 0628 UTC RJS Pacific Fleet HQ, Vladivostok wkg RAG.. 908 10 19 09 19908 = 88888 12535 95580 74039 08178
 11732 43412 08095 87893 19009 = RPT AL K

6286 kHz

15-12, 1507 UTC RGG89 wkg RJS: SML FOR RJH45 RJH48

15-12, 1804 UTC RGG89 wkg RJS: SML 869 17 15 2101 869 = FOR RJH45/RJH48 = 15181 99447 11464 41/98 92711
 11025 40058 54002 70222 8///// 22272 00021 20304 399// ./04 = AR RGG89 K

17-12, 0615 UTC RGG89 wkg RJS

17-12, 0905 UTC RGG89 wkg RJS

17-12, 1002 UTC RGG89 wkg RJS: SML FOR RJH45/RJH48 = 17091 99452 11392 41/98 92715 11023 40123 52315
 70200 8///// 22252 00027 20304 399// = AR RGG89

17-12, 1236 UTC RGG89 wkg RJS: SML 231 15 17 1531 231 = RJH45 RJH48 = 17121 99449 11387 41/98 92714 11020
 40144 52021 70200 8///// 22252 00025 20304 399// = AR RGG89

17-12, 1504 UTC RGG89 wkg SML 538 16 17 1802 538 = RJH45 RJH48 = 17151 99448 11382 41/98 92627 11010 40133
 58011 70200 8///// 22252 00021 20304 = AR RGG89

17-12, 1540 UTC RGG89 wkg RJS: SML 538 16 17 1802 538 = RJH45 RJH48 = 17151 99448 11382 41/98 92627 11010
 40133 58011 70200 8///// 22252 00021 20304 = AR RGG89

18-12, 0611 UTC RGG89 wkg RJS

18-12, 0623 UTC RGG89 wkg RJS: SML FOR RJH45/RJH48 (QSX 5478 kHz)

18-12, 0906 UTC RGG89 wkg RJS: SML FOR RJH45/RJH48 (QSX 5478 kHz)

20-12, 0611 UTC RMEG wkg RJD97

21-12, 0740 UTC RIS93 wkg RJD97:

8348 kHz, 15-12, 1531 UTC RGG89 wkg RJS

8348 kHz, 18-12, 0619 UTC RGG89 wkg RJS

8348 kHz, 21-12, 0509 UTC RMEG wkg RJS

9241 kHz

13-12. 0520 UTC RJS wkg RJD93 (comms checks)

13-12, 0530 UTC RAC de RJS QTC 457 13 130830 457 = AAAAA ZDANR AWRAP PTAZM APSUS OROZK UFLLOL GYDUC
 AIFOJ KRABU AEHAG PELGU AWKAB (msg rptd)

14-12, 0348 UTC RJS wkg RJD97

14-12, 0548 UTC RAC de RJS QTC 457 13 130830 457 = AAAAA ZDANR AWRAP PTAZM APSUS OROZK UFLLOL GYDUC AIFOJ KRABU AEHAG PELGU (msg rptd)

14-12, 0648 UTC RAP95 de RJS QTC 515 13 14 0947 515 = AAAAA GOTÃO EGARY LOZYH TEAPA SYTOG ... / ... AWKAB (msg rptd)

16-12, 0527 UTC RAC de RJS QTC 794 13 16 0823 794 = AAAAA OBÂZM URÂSU IEKUO TRURE PÂPBU CRIGI UGUDZ GOGÂU YGEAL LUIST BURÛA AEKAB = (msg rptd)

17-12, 0538 UTC RCF7 de RJS QTC 575 13 17 0836 575 = AAAAA HUOZM COZUT SGAÛL DORIF ÂPASA ZÂJRI TEUTO LÂZAK ÔHURU SUTChO RSAPO AVKAB = (msg rptd)

19-12, 0532 UTC RAC de RJS QTC 264 13 190831 264 = AAAAA OPÂGA LEVRA OSKÂV ÂAPZA RLAGI SIUNU ÛEZNA ZUFOP SHEKA LMOKU KRABU AIKAB = (msg rptd) = RPT QWX AR

20-12, 0606 UTC RAH99 de RJS QTC 201 13 20 0903 201 = AAAAA SÂSPU WLUWW WREIH GURAK USUIH BIRBI BRENÂ WHEVE KNARS RUFÂS RABXX BKKAB = (msg rptd) = RPT QWX AR

21-12, 0425 UTC RJS wkg RJD93

21-12, 0619 UTC RAC de RJS QTC : AAAAA

15586 kHz, 31-12

0855 UTC XXX XXX RJV RJV 32237 OBETOGAL 4574 5599 K

0900 UTC XXX XXX RJV RJV 39802 KOKOFAWN 2263 5996 K

0905 UTC XXX XXX RJV RJV 53097 KUSTOTOLX 4918 2870 K

0915 UTC XXX XXX RJV RJV 74377 NEPOLNOTA 1550 0992 K

0925 UTC XXX XXX RJV RJV 00410 GIÖKA 7919 1163 K

0936 UTC XXX XXX RJV RJV 20716 WOLOSNOTA 1598 1026 K

0938 UTC XXX XXX RJV RJV 27917 WXÛNOLAJM 2299 9531 K



M32b
Russian Naval Aviation
Aviatsiya VoЕННО-morskogo Flota Rossii

8816 kHz, 29-12

0742 UTC RJC38 RJF94 DE 30840 QQL ULPE 0734 QBD 4000 QBG 5800 K
 QTH 6001 3745 QTR 0843 QBD 3200 K
 QTH 5622 3725 QTR 0926 QBD 2400 QRE XUMO 0955 K
 QQM XUMO 0948 SK

1626 UTC RJC38 RJF94 DE 30840 QTO 1610 QRD XLOO XUMO QRE 1810 QBD 5200 K
 QQL UEOL (?) 1724 QBD 4000 QBG 5500 QRE XLOO 1805 K

1726 UTC RJF94 RJC38 DE 75123 QSA? QTC K
 XUMU XRSS QBD 16000 QRE 2030 K
 QAY UUOO 1917 QBD 11300 QRE XUMU 2025 K



M32c
Russian Air Force
Voyenno-vozdushnyye sily Rossii

Tu-95MS Bear H net

8112 kHz, 09-12, 1200 UTC W-markers

8990 kHz, 22-12, 0630 UTC NGA5 de 3L2F QTC = 732 756 261 300 101 751 K

8990 kHz, 26-12, 0630 UTC TTNG wkg NGA5

8112 kHz, 26-12, 0750 UTC NGA5 wkg TTNG KM5X (comms checks and messages)

8990 kHz, 27-12, 0440 UTC NGA5 de X6F3 QTC = 345 599 123 K

8990 kHz, 27-12, 0619 UTC NGA5 de KD8A BLIND = 915 492 517 308 278 669 077 K

11360 kHz, 12-12, 1306 UTC

Korsar (Russian Air Force 334th Air Transport Regiment, 6985th Air Base, Pskov) wkg 78764 reporting departure from "the point" (Latakia Syria) at 1825 MSK w/60 tons fuel and next is Raspiska (Russian AB Mozdok). 3 hrs into flt w/36 tons fuel & "ops normal".

11360 kHz, 12-12, 1314 UTC

Korsar wkg 78797, reporting departure from Kalitva (Russian AB Savasleka) at 1555 MSK w/40 tons fuel and next is Raspika.

11360 kHz, 12-12, 1317 UTC

78807 (IL-76MD) clg Davelenie (Russian Air Force 708th Air Transport Regiment, 6958th Air Base, Taganrog)

11360 kHz, 12-12, 1329 UTC

Korsar wkg 76724 reporting 2 hrs into flt & "ops normal"

LOGS SECTION

Code	Freq	Date	UTC	Day	Details	Mode	ctrb
---	3603	8-12	1110	Thu	VVV XCM XCM XCM DE WOB WOB QRU 7641 7641 VA MKKK	CW	(JPL-KOR)
---	4242	9-12	1210	Fri	VVV FHJ FHJ FHJ DE B3R B3R QRU 7552 7552 VA VA	CW	(JPL-KOR)
---	3758	10-12	1842	Sat	VVV 3BN 3BN 3BN DE 9L4 9L4 QRU 4812 4812 SK AK T R	CW	(JPL-KOR)
---	3152	11-12	0800	Sun	i.p. 54602 31955 82001 10040 21004 84032 35723 980500 ... 10087 21038 30248 40256 57030 82///	CW	(F5JBR-KOR)
---	2473	11-12	0910	Sun	FMG de 87L QSA 55 ? ? QRX	CW	(F5JBR-KOR)
---	2479	11-12	0919	Sun	FMG de 87L QSA 55 ? ? QRX	CW	(F5JBR-KOR)
---	3547	11-12	1448	Sun	VVV VVV CREP De 11T1 QSA ? K	CW	(F5JBR-KOR)
---	2957.8	11-12	1540	Sun	F12 wkg 62SF 64SF	CW	(F5JBR-KOR)
---	4180	12-12	0842	Mon	HMYU wkg H831 (comms checks)	CW	(F5JBR-KOR)
---	4242	12-12	0910	Mon	HR4 de N8V QRU AR	CW	(F5JBR-KOR)
---	4242	12-12	0912	Mon	VFZ de VOM QSA ? VVV. Also wkg with VX4 and VDR	CW	(F5JBR-KOR)
---	3247	12-12	0926	Mon	NM5 de 3F1 QSA ? K	CW	(F5JBR-KOR)
---	3389	12-12	1230	Mon	34I de ST8 QSA ? K	CW	(F5JBR-KOR)
---	8340	13-12	2302	Tue	VVV = DFQI DFQI DFQI AR NIL SK GB	CW	(JPL-KOR)
---	5821	21-12	0406	Wed	i.p. VVV 1GM DE E2F QSA 5 .. SK OK VVV W5A DE E2F QSA 4 TB VA OK	CW	(JPL-KOR)
---	4524	21-12	1708	Wed	i.p. HL41 DE 6HR2 QSY 51085 51085 K	CW	(JPL-J)
---	7920	29-12	0930	Thu	CQ CQ CQ DE X2M MSG MSG ENG 2131 CK 100 CK 100 TIME 1648 TIME 1648 DATE 2912 DATE 2912 = UNN5A 4UAD5 N4T63 ... AR on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8250	29-12	0930	Thu	CQ CQ CQ DE X2M MSG MSG ENG 2131 CK 100 CK 100 TIME 1648 TIME 1648 DATE 2912 DATE 2912 = UNN5A 4UAD5 N4T63 ... AR on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8410	29-12	0930	Thu	CQ CQ CQ DE X2M MSG MSG ENG 2131 CK 100 CK 100 TIME 1648 TIME 1648 DATE 2912 DATE 2912 = UNN5A 4UAD5 N4T63 ... AR on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	7920	30-12	0930	Fri	CQ (x3)DE X2M (x2) VVV (x2) MSG ENG ENG NR 11 11 CK 110 CK 110 TIME 1631 TIME 1631 DATE 3012 DATE 3012 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8250	30-12	0930	Fri	CQ (x3)DE X2M (x2) VVV (x2) MSG ENG ENG NR 11 11 CK 110 CK 110 TIME 1631 TIME 1631 DATE 3012 DATE 3012 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8410	30-12	0930	Fri	CQ (x3)DE X2M (x2) VVV (x2) MSG ENG ENG NR 11 11 CK 110 CK 110 TIME 1631 TIME 1631 DATE 3012 DATE 3012 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	7920	31-12	0931	Sat	CQ (x3) de X2M (x2) VVV MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 32 TIME 1632 DATE 3112 DATE 3112 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8250	31-12	0931	Sat	CQ (x3) de X2M (x2) VVV MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 32 TIME 1632 DATE 3112 DATE 3112 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
---	8410	31-12	0931	Sat	CQ (x3) de X2M (x2) VVV MSG MSG ENG ENG 01 01 CK 100 CK 100 TIME 32 TIME 1632 DATE 3112 DATE 3112 = on 7920//8250//8410 kHz	CW	(JPL-NZL)
E06	14575	1-12	0600	Thu	923 758 104 77090 17338 29170 ...	USB	(AB/Edd)
E06	17420	1-12	0700	Thu	923 758 104 77090 17338 29170 ...	USB	(AB/Edd)
E06	4760	2-12	2129	Fri	472 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/Sha)
E06	14575	15-12	0600	Thu	923 758 104 77090 17338 53679 76572 758 104 00000	USB	(Edd-AUT)
E06	17420	15-12	0700	Thu	923 758 104 77090 17338 29170 62935 33028 ... 758 104	USB	(AB)

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E06	17420	15-12	0700	Thu	923 758 104 77090 17338 53679 76572 758 104 00000	USB	(Edd-AUT)
E06	17420	16-12	0700	Fri	923 758 104 77090 17338 29170 62935 33028 ... 758 104 00000	USB	(AB)
E06	4760	16-12	2228	Fri	472 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000. Windows XP error sound at 2143z	USB	(AB)
E07	8123	3-12	0700	Sat	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	9323	3-12	0720	Sat	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	10423	3-12	0740	Sat	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	8123	4-12	0700	Sun	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	9323	4-12	0720	Sun	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	10423	4-12	0740	Sun	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	6823	5-12	2000	Mon	881 881 881 000	USB	(AB)
E07	5823	5-12	2020	Mon	881 881 881 000	USB	(AB)
E07	11493	6-12	1100	Tue	411 411 411 000	USB	(AB)
E07	10193	6-12	1120	Tue	411 411 411 000	USB	(AB)
E07	7464	7-12	1800	Wed	485 485 485 000	USB	(AB/MPJ/HFD)
E07	5864	7-12	1820	Wed	485 485 485 000	USB	(AB/HFD)
E07	6823	7-12	2000	Wed	881 881 881 000	USB	(AB/MPJ/HFD)
E07	5823	7-12	2020	Wed	881 881 881 000	USB	(AB/HFD)
E07	6777	8-12	2110	Thu	744 744 744 000	AM	(AB)
E07	5449	8-12	2130	Thu	744 744 744 000	AM	(AB)
E07	11493	9-12	1100	Fri	411 1 8106 71 44928 77638 77715 ... 09153 37650 28221 000 000	USB	(AB)
E07	10193	9-12	1120	Fri	411 1 8106 71 44928 77638 77715 ... 09153 37650 28221 000 000	USB	(AB)
E07	8193	9-12	1140	Fri	411 1 8106 71 44928 77638 77715 ... 09153 37650 28221 000 000	USB	(AB)
E07	8123	10-12	0700	Sat	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	9323	10-12	0720	Sat	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	10423	10-12	0740	Sat	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	8123	11-12	0700	Sun	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	9323	11-12	0720	Sun	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	10423	11-12	0740	Sun	134 1 414 44 39910 34863 04369 ... 98305 05403 90091 000 000	USB	(AB)
E07	6823	12-12	2000	Mon	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	5823	12-12	2020	Mon	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	5123	12-12	2040	Mon	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	11493	13-12	1100	Tue	411 411 411 000	USB	(Edd)
E07	11493	13-12	1100	Tue	411 1 3196 82 18515 67999 04419 ... 09714 87118 14485 000 000	USB	(AB/Edd)
E07	10193	13-12	1120	Tue	411 411 411 000	USB	(Edd)
E07	10193	13-12	1120	Tue	411 1 3196 82 18515 67999 04419 ... 09714 87118 14485 000 000	USB	(AB/Edd)
E07	8193	13-12	1140	Tue	411 1 3196 82 18515 67999 04419 ... 09714 87118 14485 000 000. Stopped and restarted during the msg	USB	(AB/Edd)
E07	7464	14-12	1800	Wed	485 485 485 000	USB	(AB)
E07	5864	14-12	1820	Wed	485 485 485 000	USB	(AB)
E07	6823	14-12	2000	Wed	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	5823	14-12	2020	Wed	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	5123	14-12	2040	Wed	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	6777	15-12	2110	Thu	744 744 744 000	AM	(AB)
E07	5449	15-12	2130	Thu	744 744 744 000	AM	(AB)
E07	11493	16-12	1100	Fri	411 1 3196 82 18515 67999 04419 ... 09714 87118 14485 000 000	USB	(AB/Edd)
E07	10193	16-12	1120	Fri	411 1 3196 82 18515 67999 04419 ... 09714 87118 14485 000 000	USB	(AB/Edd)

					000 000		
E07	8193	16-12	1140	Fri	411 1 3196 82 18515 67999 04419 ... 09714 87118 14485 000 000	USB	(AB/Edd)
E07	8123	17-12	0700	Sat	134 134 134 000	USB	(AB)
E07	9323	17-12	0720	Sat	134 134 134 000	USB	(AB)
E07	8123	18-12	0700	Sun	134 134 134 000	USB	(AB)
E07	9323	18-12	0720	Sun	134 134 134 000	USB	(AB)
E07	6823	19-12	2000	Mon	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	5823	19-12	2020	Mon	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	5123	19-12	2040	Mon	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	11493	20-12	1100	Tue	411 411 411 000	USB	(AB/MPJ)
E07	10193	20-12	1120	Tue	411 411 411 000	USB	(AB/MPJ)
E07	7464	21-12	1800	Wed	485 1 598 126 88451 26221 57114 ... 08403 23869 81133 000 000	AM	(AB/MPJ)
E07	5864	21-12	1820	Wed	485 1 598 126 88451 26221 57114 ... 08403 23869 81133 000 000	AM	(AB/MPJ)
E07	4564	21-12	1840	Wed	485 1 598 126 88451 26221 57114 ... 08403 23869 81133 000 000	AM	(AB)
E07	6823	21-12	2000	Wed	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	5823	21-12	2020	Wed	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	5123	21-12	2040	Wed	881 1 570 39 75230 25689 06098 ... 41808 30098 81562 000 000	USB	(AB/MPJ)
E07	6777	22-12	2110	Thu	744 744 744 000	AM	(AB)
E07	5449	22-12	2130	Thu	744 744 744 000	AM	(AB)
E07	11493	23-12	1100	Fri	411 411 411 000	USB	(AB)
E07	10193	23-12	1120	Fri	411 411 411 000	USB	(AB)
E07	8123	24-12	0700	Sat	134 134 134 000	USB	(AB)
E07	9323	24-12	0720	Sat	134 134 134 000	USB	(AB)
E07	11493	27-12	1100	Tue	411 411 411 000	USB	(AB/MPJ)
E07	10193	27-12	1120	Tue	411 411 411 000	USB	(AB)
E07	7464	28-12	1800	Wed	485 485 485 000	AM	(AB)
E07	5864	28-12	1820	Wed	485 485 485 000	AM	(AB)
E07	6823	28-12	2000	Wed	881 881 881 000	USB	(AB)
E07	5823	28-12	2020	Wed	881 881 881 000	USB	(AB)
E07	11493	30-12	1100	Fri	411 411 411 000	USB	(AB)
E07	10193	30-12	1120	Fri	411 411 411 000	USB	(AB)
E07	8123	31-12	0700	Sat	134 134 134 000	USB	(AB)
E07	9323	31-12	0720	Sat	134 134 134 000	USB	(AB)
E07a	5111	1-12	0530	Thu	189 189 189 000	USB	(AB/Edd)
E07a	5811	1-12	0550	Thu	189 189 189 000	USB	(AB/Edd)
E07a	5887	2-12	1610	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	5387	2-12	1630	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	7464	4-12	1800	Sun	485 485 485 000	AM	(AB)
E07a	5864	4-12	1820	Sun	485 485 485 000	AM	(AB)
E07a	5877	7-12	2100	Wed	825 825 825 000	USB	(AB)
E07a	5277	7-12	2120	Wed	825 825 825 000	USB	(AB/RL)
E07a	5111	8-12	0530	Thu	189 189 189 000	USB	(AB/Edd)
E07a	5811	8-12	0550	Thu	189 189 189 000	USB	(AB/Edd)
E07a	5887	9-12	1610	Fri	830 830 830 000	USB	(AB/HFD)
E07a	5387	9-12	1630	Fri	830 830 830 000	USB	(AB/HFD)
E07a	11121	10-12	0900	Sat	124 124 124 000	USB	(AB)
E07a	12221	10-12	0920	Sat	124 124 124 000	USB	(AB)
E07a	7464	11-12	1800	Sun	485 485 485 000	AM	(AB)
E07a	5864	11-12	1820	Sun	485 485 485 000	AM	(AB)
E07a	5877	14-12	2100	Wed	825 1 64340 6029 53 09778 10129 02779 ... 97760 43220 72539 000 000	USB	(AB/MPJ/RL)
E07a	5277	14-12	2120	Wed	825 1 64340 6029 53 09778 10129 02779 ... 97760 43220 72539 000 000	USB	(AB)
E07a	4577	14-12	2140	Wed	825 1 64340 6029 53 09778 10129 02779 ... 97760 43220 72539 000 000	USB	(AB)
E07a	5111	15-12	0530	Thu	189 1 64340 6029 53 09778 10129 02779 ... 97760 43220 72539 000 000	USB	(AB/Edd)
E07a	5811	15-12	0550	Thu	189 1 64340 6029 53 09778 10129 02779 ... 97760 43220 72539 000 000	USB	(AB/Edd)
E07a	6911	15-12	0610	Thu	189 1 64340 6029 53 09778 10129 02779 ... 97760 43220 72539 000 000	USB	(AB/Edd)
E07a	5887	16-12	1610	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	5387	16-12	1630	Fri	830 830 830 000	USB	(AB/MPJ)

E07a	11121	17-12	0900	Sat	124 124 124 000	USB	(AB/HFD)
E07a	12221	17-12	0920	Sat	124 124 124 000	USB	(AB/HFD)
E07a	7464	18-12	1800	Sun	485 485 485 000	AM	(AB/MPJ)
E07a	5864	18-12	1820	Sun	485 485 485 000	AM	(AB)
E07a	5877	21-12	2100	Wed	825 825 825 000	USB	(MPJ)
E07a	5277	21-12	2120	Wed	825 825 825 000	USB	(RL)
E07a	5111	22-12	0530	Thu	189 189 189 000	USB	(AB)
E07a	5811	22-12	0550	Thu	189 189 189 000	USB	(AB)
E07a	5887	23-12	1610	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	5387	23-12	1630	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	11121	24-12	0900	Sat	124 124 124 000	USB	(AB)
E07a	12221	24-12	0920	Sat	124 124 124 000	USB	(AB)
E07a	5877	28-12	2100	Wed	825 825 825 000	USB	(AB)
E07a	5277	28-12	2120	Wed	825 825 825 000	USB	(AB)
E07a	5887	30-12	1610	Fri	830 830 830 000	USB	(AB/MPJ)
E07a	5387	30-12	1630	Fri	830 830 830 000	USB	(AB)
E11	5779	1-12	0315	Thu	253/00	USB	(AB)
E11	7840	1-12	0645	Thu	515/00	USB	(AB)
E11	12924	1-12	0710	Thu	492/00	USB	(AB)
E11	16112	1-12	0745	Thu	334/00	USB	(AB)
E11	7371	1-12	0820	Thu	435/00	USB	(AB)
E11	9950	1-12	0930	Thu	277/00	USB	(AB)
E11	5409	1-12	1530	Thu	269/00	USB	(AB)
E11	5082	1-12	1730	Thu	415/00	USB	(AB/MPJ)
E11	13046	2-12	0600	Fri	189/00	USB	(AB)
E11	8800	2-12	1000	Fri	302/00	USB	(AB/Edd)
E11	16335	2-12	1650	Fri	922/00	USB	(AB)
E11	12924	3-12	0710	Sat	492/00	USB	(AB)
E11	14666	3-12	1345	Sat	910/00	USB	(AB)
E11	9443	3-12	1705	Sat	394/00	USB	(AB/MPJ)
E11	8545	3-12	1730	Sat	406/00	USB	(AB/MPJ)
E11	10429	4-12	0805	Sun	319/00	USB	(AB)
E11	4505	4-12	1605	Sun	231/00	USB	(AB)
E11	6849	5-12	0530	Mon	640/00	USB	(AB)
E11	10213	5-12	0745	Mon	264/00	USB	(AB)
E11	7371	5-12	0820	Mon	435/00	USB	(AB)
E11	9446	5-12	0900	Mon	534/00	USB	(AB)
E11	8800	6-12	1000	Tue	304/00	USB	(AB/Edd)
E11	12153	6-12	1045	Tue	577/00	USB	(AB)
E11	18030	6-12	1300	Tue	133/00	USB	(AB)
E11	4505	6-12	1605	Tue	235/00	USB	(AB/GHn/MPJ)
E11	9446	7-12	0900	Wed	536/00	USB	(AB)
E11	9950	7-12	0930	Wed	278/00	USB	(AB)
E11	18030	7-12	1300	Wed	133/00	USB	(AB)
E11	8545	7-12	1730	Wed	402/00	USB	(MPJ)
E11	6849	8-12	0530	Thu	646/00	USB	(HFD)
E11	12924	8-12	0710	Thu	498/00	USB	(AB-RUS)
E11	7371	8-12	0820	Thu	439/00	USB	(AB)
E11	9950	8-12	0930	Thu	279/00	USB	(AB)
E11	8680	8-12	1300	Thu	581/00	USB	(AB)
E11	5409	8-12	1530	Thu	268/00	USB	(AB)
E11	5082	8-12	1730	Thu	413/00	USB	(AB)
E11	8800	9-12	1000	Fri	305/00	USB	(AB)
E11	20167	9-12	1225	Fri	527/00	USB	(AB)
E11	16335	9-12	1650	Fri	926/00	USB	(AB)
E11	6304	9-12	2000	Fri	575/00	USB	(AB)
E11	12924	10-12	0710	Sat	490/00	USB	(AB-FNL)
E11	8680	10-12	1300	Sat	588/00	USB	(AB/MPJ)
E11	9443	10-12	1705	Sat	394/00	USB	(AB)
E11	8545	10-12	1730	Sat	403/00	USB	(AB/MPJ)
E11	16112	11-12	0730	Sun	351/00	USB	(AB)
E11	10429	11-12	0805	Sun	315/00	USB	(AB)
E11	4505	11-12	1605	Sun	235/00	USB	(AB/MPJ)
E11	10488	11-12	1625	Sun	972/33 Attention ...	USB	(AB)
E11	11107	11-12	2005	Sun	363/00	USB	(AB/MPJ/HFD)
E11	7371	12-12	0820	Mon	439/00	USB	(AB)
E11	16112	13-12	0745	Tue	334/00	USB	(AB-S)
E11	8800	13-12	1000	Tue	300/00	USB	(AB/Edd)
E11	12153	13-12	1045	Tue	577/00	USB	(AB)
E11	7984	13-12	1205	Tue	466/00	USB	(AB)
E11	14666	13-12	1345	Tue	917/00	USB	(AB/GHn)
E11	9950	14-12	0930	Wed	273/00	USB	(AB)

E11	7984	14-12	1205	Wed	463/00	USB	(AB/GHn)
E11	18030	14-12	1300	Wed	133/00	USB	(AB)
E11	7840	15-12	0645	Thu	517/00	USB	(AB)
E11	12924	15-12	0710	Thu	496/00	USB	(AB-RUS)
E11	16112	15-12	0745	Thu	334/00	USB	(AB)
E11	7371	15-12	0820	Thu	436/00	USB	(AB)
E11	8680	15-12	1300	Thu	586/00	USB	(AB)
E11	6304	16-12	2000	Fri	573/00	USB	(AB/MPJ)
E11	12924	17-12	0710	Sat	495/00	USB	(AB)
E11	8680	17-12	1300	Sat	585/00	USB	(AB)
E11	14666	17-12	1345	Sat	910/00	USB	(MPJ)
E11	8545	17-12	1730	Sat	400/00	USB	(AB/MPJ)
E11	5082	19-12	0450	Mon	415/00	USB	(AB)
E11	13046	19-12	0600	Mon	184/00	USB	(AB)
E11	10213	19-12	0745	Mon	267/00	USB	(AB)
E11	9446	19-12	0900	Mon	533/00	USB	(AB)
E11	7840	20-12	0645	Tue	515/00	USB	(AB)
E11	16112	20-12	0745	Tue	330/00	USB	(AB)
E11	8800	20-12	1000	Tue	309/00	USB	(AB/Edd)
E11	12153	20-12	1045	Tue	575/00	USB	(AB)
E11	7984	20-12	1205	Tue	464/00	USB	(AB)
E11	14666	20-12	1345	Tue	915/00	USB	(MPJ)
E11	4505	20-12	1605	Tue	236/00	USB	(MPJ)
E11	5799	21-12	0315	Wed	252/00	USB	(AB)
E11	10429	21-12	0805	Wed	316/00	USB	(AB)
E11	9446	21-12	0900	Wed	534/00	USB	(AB)
E11	9950	21-12	0930	Wed	279/00	USB	(AB)
E11	7984	21-12	1205	Wed	464/00	USB	(AB/MPJ)
E11	9443	21-12	1705	Wed	396/00	USB	(AB)
E11	8545	21-12	1730	Wed	406/00	USB	(AB)
E11	7840	22-12	0645	Thu	514/00	USB	(AB)
E11	16112	22-12	0745	Thu	334/00	USB	(AB)
E11	9950	22-12	0930	Thu	275/00	USB	(AB)
E11	9950	22-12	0930	Thu	275/00	USB	(AB)
E11	8680	22-12	1300	Thu	585/00	USB	(AB/MPJ)
E11	5409	22-12	1530	Thu	266/00	USB	(MPJ/GHn)
E11	5082	22-12	1730	Thu	415/00	USB	(MPJ)
E11	16112	23-12	0730	Fri	358/00	USB	(AB)
E11	8800	23-12	1000	Fri	305/00	USB	(AB)
E11	16335	23-12	1650	Fri	929/00	USB	(AB)
E11	6304	23-12	2000	Fri	574/00	USB	(AB)
E11	8680	24-12	1300	Sat	585/00	USB	(AB/GHn/BvR)
E11	14666	24-12	1345	Sat	915/00	USB	(AB)
E11	9443	24-12	1705	Sat	399/00	USB	(MPJ/BvR)
E11	10213	25-12	0745	Sun	267/00	USB	(AB)
E11	10429	25-12	0807	Sun	315/00	USB	(BvR)
E11	7371	25-12	0820	Sun	432/00	USB	(AB)
E11	9446	25-12	0900	Sun	533/00	USB	(AB)
E11	10213	26-12	0746	Mon	269/00	USB	(BvR)
E11	9446	26-12	0900	Mon	536/00	USB	(BvR)
E11	7840	27-12	0645	Tue	518/00	USB	(AB)
E11	16112	27-12	0745	Tue	332/00	USB	(AB)
E11	7984	27-12	1205	Tue	466/00	USB	(AB)
E11	10429	28-12	0805	Wed	313/00	USB	(AB)
E11	9446	28-12	0900	Wed	537/00	USB	(AB)
E11	7984	28-12	1205	Wed	469/00	USB	(AB)
E11	18030	28-12	1300	Wed	131/00	USB	(AB)
E11	9443	28-12	1705	Wed	396/00	USB	(AB)
E11	7840	29-12	0645	Thu	511/00	USB	(AB)
E11	12924	29-12	0710	Thu	492/00	USB	(AB-AUT)
E11	16112	29-12	0745	Thu	335/00	USB	(AB)
E11	7371	29-12	0820	Thu	431/00	USB	(AB)
E11	8680	29-12	1300	Thu	589/00	USB	(AB)
E11	5409	29-12	1530	Thu	261/00	USB	(AB/MPJ)
E11	5082	29-12	1730	Thu	415/00	USB	(MPJ)
E11	16112	30-12	0730	Fri	350/00	USB	(AB)
E11	16335	30-12	1650	Fri	929/00	USB	(AB)
E11	8680	31-12	1300	Sat	580/00	USB	(AB/MPJ)
E11	14666	31-12	1345	Sat	919/00	USB	(AB/MPJ)
E11	9443	31-12	1705	Sat	396/00	USB	(AB/MPJ)
E11a	8680	1-12	1300	Thu	580/34 Attention 19280 13246 18904 ... 26308 90280 45853 Attention, rpt msg, out	USB	(AB)

E11a	8680	3-12	1300	Sat	580/34 Attention 19280 13246 18904 ... 26308 90280 45853 Attention, rpt msg, out	USB	(AB)
E11a	13046	5-12	0600	Mon	182/30 Attention 71105 38704 56751 ... 78511 34630 06061 Attention, rpt msg, out	USB	(AB)
E11a	7840	6-12	0645	Tue	510/37 Attention 87685 44273 81357 ... 30361 81986 51660 Attention, rpt msg, out	USB	(AB)
E11a	16112	6-12	0745	Tue	338/35 Attention 47318 86949 16573 ... 01125 99704 25094 Attention, rpt msg, out	USB	(AB-S)
E11a	7984	6-12	1205	Tue	465/31 Attention 20826 54972 63914 ... 92573 74000 47322 Attention, rpt msg, out	USB	(AB)
E11a	14666	6-12	1345	Tue	917/39 Attention 88819 44261 94208 ... 30398 15141 08519 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	5779	7-12	0315	Wed	250/38 Attention 40013 88293 39886 ... 94303 68423 32795 Attention, rpt msg, out	USB	(AB)
E11a	7984	7-12	1205	Wed	465/31 Attention 20826 54972 63914 ... 92573 74000 47322 Attention, rpt msg, out	USB	(AB)
E11a	10448	7-12	1625	Wed	563/33 Attention 51579 58500 71235 21776 43315 ... (faded) ... 10948 48504 47005	USB	(MPJ)
E11a	7840	8-12	0645	Thu	510/37 Attention 87685 44273 81357 ... 30361 81986 51660 Attention, rpt msg, out	USB	(AB)
E11a	16112	8-12	0745	Thu	338/35 Attention 47318 86949 16573 ... 01125 99704 25094 Attention, rpt msg, out	USB	(AB-AUT)
E11a	14666	10-12	1345	Sat	917/39 Attention 88819 44261 94208 ... 30398 15141 08519 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	10213	12-12	0745	Mon	267/34 Attention 08997 26440 82406 ... 13121 52153 68893 Attention, rpt msg, out	USB	(AB)
E11a	9446	12-12	0900	Mon	530/32 Attention 51156 98712 97789 ... 44386 77020 64382 Attention, rpt msg, out	USB	(AB)
E11a	4505	13-12	1605	Tue	233/37 Attention 62196 23735 52563 ... 58015 58747 18961 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	9446	14-12	0900	Wed	530/32 Attention 51156 98712 97789 ... 44386 77020 64382 Attention, rpt msg, out	USB	(AB)
E11a	5409	15-12	1530	Thu	267/34 Attention 08997 26440 82406 ... 13121 52153 68893 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	5082	15-12	1730	Thu	412/37 Attention 89473 58151 44719 ... 90736 65761 53816 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	16112	16-12	0730	Fri	353/40 Attention 57174 12375 46035 ... 61136 91670 70525 Attention, rpt msg, out	USB	(AB)
E11a	16335	16-12	1650	Fri	929/36 Attention 15095 15833 56922 ... 75411 04636 32559 Attention, rpt msg, out	USB	(AB)
E11a	16112	18-12	0730	Sun	353/40 Attention 57174 12375 46035 ... 61136 91670 70525 Attention, rpt msg, out	USB	(AB)
E11a	10429	18-12	0805	Sun	316/37 Attention 42643 85195 90437 ... 95898 96122 97536 Attention, rpt msg, out	USB	(AB)
E11a	4505	18-12	1605	Sun	233/37 Attention 62196 23735 52563 ... 58015 58747 18961 Attention, rpt msg, out	USB	(AB/MPJ)
E11a	7371	19-12	0820	Mon	436/31 Attention 95267 41633 18190 ... 83063 74624 98652 Attention, rpt msg, out	USB	(AB)
E11a	12924	22-12	0710	Thu	498/33 Attention ...	USB	(AB-RUS)
E11a	7371	22-12	0820	Thu	436/31 Attention 95267 41633 18190 ... 83063 74624 98652 Attention, rpt msg, out	USB	(AB)
E11a	12924	24-12	0710	Sat	498/33 Attention ...	USB	(AB)
E11a	12153	27-12	1045	Tue	570/31 Attention 70904 97288 57012 ... 91654 54274 25836 Attention, rpt msg, out	USB	(AB)
E11a	9950	28-12	0930	Wed	273/36 Attention 43037 65208 11448 ... 09283 51495 83611 Attention, rpt msg, out	USB	(AB)
E11a	8545	28-12	1730	Wed	402/31 Attention 32404 99941 31192 ... 76404 88527 62479 Attention, rpt msg, out	USB	(AB)
E11a	8800	30-12	1000	Fri	300/31 Attention 03845 71309 38559 ... 92753 05879 00998 Attention, rpt msg, out	USB	(AB)
E11a	6304	30-12	2000	Fri	570/31 Attention ...	USB	(AB)
E11a	8545	31-12	1730	Sat	402/31 Attention 32404 99941 31192 ... 76404 88527 62479 Attention, rpt msg, out	USB	(AB)
E17z	11170	1-12	0800	Thu	674 918 5 34140 78386 91497 82963 24162 918 5 00000	USB	(AB)
E17z	9820	1-12	0810	Thu	674 918 5 34140 78386 91497 82963 24162 918 5 00000	USB	(AB)
E17z	11170	8-12	0800	Thu	674 918 5 34140 78386 91497 82963 24162 918 5 00000	USB	(AB)
E17z	9820	8-12	0810	Thu	674 918 5 34140 78386 91497 82963 24162 918 5 00000	USB	(AB)
E17z	11170	15-12	0800	Thu	674 903 5 52701 63919 92699 14600 74248 903 5 00000	USB	(AB)
E17z	9820	15-12	0810	Thu	674 903 5 52701 63919 92699 14600 74248 903 5 00000	USB	(AB)
E17z	11170	22-12	0800	Thu	674 903 5 52701 63919 92699 14600 74248 903 5 00000	USB	(AB/Edd)
E17z	9820	22-12	0810	Thu	674 903 5 52701 63919 92699 14600 74248 903 5 00000	USB	(AB/Edd)
E17z	11170	29-12	0800	Thu	674 674 674 00000	USB	(AB)
E17z	9820	29-12	0810	Thu	674 674 674 00000	USB	(AB)

E25	6140	11-12	1000	Sun	Enta Omri. 570 msg 6832 1026 6774 7181 2608 rbt 6832 1026 6774 7181 2608 EOM EOT	AM	(PW2/qsr711/Dan ix)
E25	6140	12-12	1000	Mon	Enta Omri intro, windows sounds, 570 6832 1026 6774 7181 2608	AM	(qsr711)
E25	6140	12-12	1000	Mon	Enta Omri 570 msg 6832 1026 6774 7181 2608 rbt 6832 1026(win7 error) 6774 7181 2608 EOM EOT(win7 error)	AM	(PW2)
EGY	19100.7	19-12	0716	Mon	MFA Cairo clg OOVK Egyptian embassy Jakarta	SITOR-A 100/170	(AB)
EGY	5120	28-12	2015	Wed	Egyptian diplo clg OOVV: Egyptian embassy Islamabad, followed by SITOR-B msg "KDS KPDKJ KYKM HOKDS JG KDCFUSG ODS 5605 5605 5605 5605 KY KYn	SITOR-A 100/170	(AAI)
EGY	7777	29-12	1550	Thu	MFA Cairo msg to embassy Islamabad	SITOR-A 100/170	(Benka)
F11	5831	1-12	0300	Thu	0231 00000	FSK 100/625	(AB)
F11	5831	1-12	0305	Thu	0231 00000	FSK 100/625	(AB)
F11	7772	1-12	0630	Thu	574 00000	FSK 100/620	(AB)
F11	7772	1-12	0635	Thu	574 00000	FSK 100/620	(AB)
F11	16388	1-12	0730	Thu	0433 00000	FSK 100/620	(AB)
F11	16388	1-12	0735	Thu	0433 00000	FSK 100/620	(AB)
F11	6836	1-12	0800	Thu	0434 00000	FSK 100/620	(AB)
F11	6836	1-12	0805	Thu	0434 00000	FSK 100/620	(AB)
F11	7499	2-12	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	7499	2-12	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	6940	5-12	0515	Mon	0446 00000	FSK 100/620	(AB)
F11	6940	5-12	0520	Mon	0446 00000	FSK 100/620	(AB)
F11	6836	5-12	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6836	5-12	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9370	5-12	0845	Mon	0353 00000	FSK 100/620	(AB)
F11	9370	5-12	0850	Mon	0353 00000	FSK 100/620	(AB)
F11	7772	6-12	0632	Tue	0574 88888 88888 87685 44273 81357 ... 30361 81986 51660 88888 88888 00041 00041 2 mins late.	FSK 100/620	(AB)
F11	7772	6-12	0635	Tue	0574 88888 88888 87685 44273 81357 ... 30361 81986 51660 88888 88888 00041 00041	FSK 100/620	(AB)
F11	16388	6-12	0730	Tue	0433 88888 88888 47318 86949 16573 ... 25094 88888 88888 00039 00039	FSK 100/620	(AB-S)
F11	16388	6-12	0735	Tue	0433 88888 88888 47318 86949 16573 ... 25094 88888 88888 00039 00039	FSK 100/620	(AB-S)
F11	7499	6-12	0900	Tue	0554 00000	FSK 100/620	(AB)
F11	7499	6-12	0905	Tue	0554 00000	FSK 100/620	(AB)
F11	7863	6-12	1150	Tue	0325 88888 88888 20826 54972 63914 ... 92573 74000 47322 88888 88888 00035 00035	FSK 100/620	(AB)
F11	7863	6-12	1155	Tue	0325 88888 88888 20826 54972 63914 ... 92573 74000 47322 88888 88888 00035 00035	FSK 100/620	(AB)
F11	17531	6-12	1245	Tue	0132 00000	FSK 100/620	(AB)
F11	17531	6-12	1250	Tue	0132 00000	FSK 100/620	(AB)
F11	5831	7-12	0300	Wed	0231 88888 88888 40013 88293 39886 ... 94303 68423 32795 88888 88888 00042 00042	FSK 100/620	(AB)
F11	5831	7-12	0305	Wed	0231 88888 88888 40013 88293 39886 ... 94303 68423 32795 88888 88888 00042 00042	FSK 100/620	(AB)
F11	9370	7-12	0845	Wed	0353 00000	FSK 100/620	(AB)
F11	9370	7-12	0850	Wed	0353 00000	FSK 100/620	(AB)
F11	7863	7-12	1150	Wed	0325 88888 88888 20826 54972 63914 ... 92573 74000 47322 88888 88888 00035 00035	FSK 100/620	(AB)
F11	7863	7-12	1155	Wed	0325 88888 88888 20826 54972 63914 ... 92573 74000 47322 88888 88888 00035 00035	FSK 100/620	(AB)
F11	17531	7-12	1245	Wed	0132 00000	FSK 100/620	(AB)
F11	17531	7-12	1250	Wed	0132 00000	FSK 100/620	(AB)
F11	7772	8-12	0630	Thu	0574 88888 88888 87685 44273 81357 ... 30361 81986 51660 88888 88888 00041 00041	FSK 100/620	(AB)
F11	7772	8-12	0635	Thu	0574 88888 88888 87685 44273 81357 ... 30361 81986 51660 88888 88888 00041 00041	FSK 100/620	(AB)
F11	7499	9-12	0900	Fri	0554 00000	FSK 100/620	(AB)
F11	7499	9-12	0905	Fri	0554 00000	FSK 100/620	(AB)
F11	6836	12-12	0800	Mon	0434 00000	FSK 100/620	(AB)
F11	6836	12-12	0805	Mon	0434 00000	FSK 100/620	(AB)
F11	9370	12-12	0845	Mon	0353 88888 88888 51156 98712 97789 ... 44386 77020 64382 88888 88888 00036 00036	FSK 100/620	(AB)
F11	9370	12-12	0850	Mon	0353 88888 88888 51156 98712 97789 ... 44386 77020 64382 88888 88888 00036 00036	FSK 100/620	(AB)
F11	16388	13-12	0730	Tue	0433 00000	FSK 100/620	(AB-S)
F11	16388	13-12	0735	Tue	0433 00000	FSK 100/620	(AB-S)
F11	7499	13-12	0900	Tue	0554 88888 88888 16805 63841 16270 ... 01051 32177 71020 88888 88888 00035 00035	FSK 100/620	(AB)
F11	7499	13-12	0905	Tue	0554 88888 88888 16805 63841 16270 ... 01051 32177 71020 88888 88888 00035 00035	FSK 100/620	(AB)

F11	7863	13-12	1150	Tue	0325 0000	FSK 100/620	(AB)
F11	7863	13-12	1155	Tue	0325 0000	FSK 100/620	(AB)
F11	17531	13-12	1245	Tue	0132 0000	FSK 100/620	(AB)
F11	17531	13-12	1250	Tue	0132 0000	FSK 100/620	(AB)
F11	5831	14-12	0300	Wed	0231 0000	FSK 100/620	(AB)
F11	5831	14-12	0305	Wed	0231 0000	FSK 100/620	(AB)
F11	9370	14-12	0845	Wed	0353 88888 88888 51156 98712 97789 ... 44386 77020 64382 88888 88888 00036 00036	FSK 100/620	(AB)
F11	9370	14-12	0850	Wed	0353 88888 88888 51156 98712 97789 ... 44386 77020 64382 88888 88888 00036 00036	FSK 100/620	(AB)
F11	7863	14-12	1150	Wed	0325 0000	FSK 100/620	(AB)
F11	7863	14-12	1155	Wed	0325 0000	FSK 100/620	(AB)
F11	17531	14-12	1245	Wed	0132 0000	FSK 100/620	(AB)
F11	17531	14-12	1250	Wed	0132 0000	FSK 100/620	(AB)
F11	7772	15-12	0630	Thu	0574 0000	FSK 100/620	(AB)
F11	7772	15-12	0635	Thu	0574 0000	FSK 100/620	(AB)
F11	16388	15-12	0730	Thu	0433 0000	FSK 100/620	(AB)
F11	16388	15-12	0735	Thu	0433 0000	FSK 100/620	(AB)
F11	6836	15-12	0800	Thu	0434 0000	FSK 100/620	(AB)
F11	6836	15-12	0805	Thu	0434 0000	FSK 100/620	(AB)
F11	7499	16-12	0900	Fri	0554 88888 88888 16805 63841 16270 ... 01051 32177 71020 88888 88888 00035 00035	FSK 100/620	(AB)
F11	7499	16-12	0905	Fri	0554 88888 88888 16805 63841 16270 ... 01051 32177 71020 88888 88888 00035 00035	FSK 100/620	(AB)
F11	6836	19-12	0800	Mon	0434 88888 88888 95267 41633 18190 ... 83063 74624 98652 88888 88888 00035 00035	FSK 100/620	(AB)
F11	6836	19-12	0805	Mon	0434 88888 88888 95267 41633 18190 ... 83063 74624 98652 88888 88888 00035 00035	FSK 100/620	(AB)
F11	9370	19-12	0845	Mon	0353 0000	FSK 100/620	(AB)
F11	9370	19-12	0850	Mon	0353 0000	FSK 100/620	(AB)
F11	7772	20-12	0630	Tue	0574 0000	FSK 100/620	(AB)
F11	7772	20-12	0635	Tue	0574 0000	FSK 100/620	(AB)
F11	16388	20-12	0730	Tue	0433 0000	FSK 100/620	(AB)
F11	16388	20-12	0735	Tue	0433 0000	FSK 100/620	(AB)
F11	7499	20-12	0900	Tue	0554 0000	FSK 100/620	(AB)
F11	7499	20-12	0905	Tue	0554 0000	FSK 100/620	(AB)
F11	7863	20-12	1150	Tue	0325 0000	FSK 100/620	(AB)
F11	7863	20-12	1155	Tue	0325 0000	FSK 100/620	(AB)
F11	5831	21-12	0300	Wed	0231 0000	FSK 100/620	(AB)
F11	5831	21-12	0305	Wed	0231 0000	FSK 100/620	(AB)
F11	9370	21-12	0845	Wed	0353 0000	FSK 100/620	(AB)
F11	9370	21-12	0850	Wed	0353 0000	FSK 100/620	(AB)
F11	7863	21-12	1150	Wed	0325 0000	FSK 100/620	(AB)
F11	7863	21-12	1155	Wed	0325 0000	FSK 100/620	(AB)
F11	6940	22-12	0515	Thu	0446 + message of 37 groups	FSK 100/620	(AB)
F11	6940	22-12	0520	Thu	0446 + message of 37 groups	FSK 100/620	(AB)
F11	7772	22-12	0630	Thu	0574 0000	FSK 100/620	(AB)
F11	7772	22-12	0635	Thu	0574 0000	FSK 100/620	(AB)
F11	16388	22-12	0730	Thu	0433 0000	FSK 100/620	(AB)
F11	16388	22-12	0735	Thu	0433 0000	FSK 100/620	(AB)
F11	6836	22-12	0800	Thu	0434 88888 88888 95267 41633 18190 ... 83063 74624 98652 88888 88888 00035 00035	FSK 100/620	(AB)
F11	6836	22-12	0805	Thu	0434 88888 88888 95267 41633 18190 ... 83063 74624 98652 88888 88888 00035 00035	FSK 100/620	(AB)
F11	7499	23-12	0900	Fri	0554 0000	FSK 100/620	(AB)
F11	7499	23-12	0905	Fri	0554 0000	FSK 100/620	(AB)
F11	6836	25-12	0800	Sun	0434 0000	FSK 100/620	(AB)
F11	6836	25-12	0805	Sun	0434 0000	FSK 100/620	(AB)
F11	9370	25-12	0845	Sun	0353 0000	FSK 100/620	(AB)
F11	9370	25-12	0850	Sun	0353 0000	FSK 100/620	(AB)
F11	7772	27-12	0630	Tue	0574 0000	FSK 100/620	(AB)
F11	7772	27-12	0635	Tue	0574 0000	FSK 100/620	(AB)
F11	16388	27-12	0730	Tue	0433 0000	FSK 100/620	(AB)
F11	16388	27-12	0735	Tue	0433 0000	FSK 100/620	(AB)
F11	7499	27-12	0900	Tue	0554 0000	FSK 100/620	(AB)
F11	7499	27-12	0905	Tue	0554 0000	FSK 100/620	(AB)
F11	7863	27-12	1150	Tue	0325 0000	FSK 100/620	(AB)
F11	7863	27-12	1155	Tue	0325 0000	FSK 100/620	(AB)
F11	9370	28-12	0845	Wed	0353 0000	FSK 100/620	(AB/AAI)
F11	9370	28-12	0850	Wed	0353 0000	FSK 100/620	(AB)
F11	7863	28-12	1150	Wed	0325 0000	FSK 100/620	(AB)
F11	7863	28-12	1155	Wed	0325 0000	FSK 100/620	(AB)

F11	17531	28-12	1245	Wed	0132 0000	FSK 100/620	(AB)
F11	17531	28-12	1250	Wed	0132 0000	FSK 100/620	(AB)
F11	7772	29-12	0630	Thu	0574 0000	FSK 100/620	(AB)
F11	7772	29-12	0635	Thu	0574 0000	FSK 100/620	(AB)
F11	16388	29-12	0730	Thu	0433 0000	FSK 100/620	(AB)
F11	16388	29-12	0735	Thu	0433 0000	FSK 100/620	(AB)
F11	6836	29-12	0800	Thu	0434 0000	FSK 100/620	(AB)
F11	6836	29-12	0805	Thu	0434 0000	FSK 100/620	(AB)
F11	7499	30-12	0900	Fri	0554 0000	FSK 100/620	(AB)
F11	7499	30-12	0905	Fri	0554 0000	FSK 100/620	(AB)
G06	5320	5-12	0800	Mon	Windows sounds. Transmitter noise. At 0806z 329 329 329 00000	USB	(AB)
G06	3700	5-12	1658	Mon	574 574 574 00000	USB	(AB-POL)
G06	4562	5-12	1714	Mon	111 111 111 00000	USB	(AB)
G06	4562	5-12	1732	Mon	Windows sound, also at 1733z and 1734z	USB	(AB)
G06	4562	5-12	1740	Mon	5	USB	(AB)
G06	4562	5-12	1758	Mon	574 574 574 00000 Windows XP shutdown sound	USB	(AB/MPJ)
G06	4039	7-12	1259	Wed	574 574 574 00000	USB	(AB-POL)
G06	4460	8-12	1300	Thu	329 329 329 00000 Windows XT shutdown sound	USB	(AB-POL/HFD)
G06	4519	8-12	1830	Thu	Windows XP error sound 271 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP shut down sound	USB	(AB-POL/MPJ)
G06	4792	9-12	1917	Fri	1 1 Windows XP error sound	USB	(AB)
G06	4792	9-12	1928	Fri	436 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/GHn/BvR/HFD)
G06	4562	12-12	1718	Mon	111 (EE, male)	USB	(AB)
G06	4562	12-12	1727	Mon	111 11 (GG-female), 111 (EE, male), Windows XP error sound, 1 (SS, female)	USB	(AB)
G06	4562	12-12	1749	Mon	111 111 (EE, female)	USB	(AB)
G06	4562	12-12	1758	Mon	574 574 574 00000 Windows XP shutdown sound	USB	(AB/MPJ)
G06	4916	14-12	1158	Wed	574 574 574 00000 Windows XP shutdown sound	USB	(AB-POL)
G06	4039	14-12	1258	Wed	574 574 574 00000	USB	(AB-POL)
G06	4842	15-12	2030	Thu	321 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000 Windows XP error during group 2. Windows XP shutdown sound at the end	USB	(AB)
G06	5320	19-12	0753	Mon	111 111 111 00000	USB	(AB)
G06	5320	19-12	0754	Mon	3	USB	(AB)
G06	5320	19-12	0758	Mon	329 329 329 00000	USB	(AB/HFD)
G06	4460	22-12	1245	Thu	111 00	USB	(AB-RUS)
G06	4460	22-12	1301	Thu	329 329 329 00000	USB	(AB-RUS/MPJ/Edd)
G06	4519	22-12	1739	Thu	111 00000 (rptd) 111 (stops)	USB	(MPJ)
G06	4519	22-12	1830	Thu	271 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB/GHn/MPJ)
G06	4792	23-12	1928	Fri	436 149 52 12265 10965 47839 ... 53234 05124 95732 149 52 00000	USB	(AB)
HM01	11435	1-12	1559	Thu	56411 32473 65464 72671 42266 42031	AM/RDFT	(RR2)
HM01	11435	2-12	1600	Fri	56411 32474 65465 72672 42267 42032	AM/RDFT	(RR2)
HM01	11435	2-12	1616	Fri	56411 32474 65465 72672 42267 42032	AM/RDFT	(BW3)
HM01	11530	3-12	1656	Sat	56412 32475 65466 72673 47001 42033	AM/RDFT	(RR2)
HM01	16180	3-12	2057	Sat	56412 32475 65466 72673 47001 42033	AM/RDFT	(RL)
HM01	9330	4-12	0657	Sun	56412 32475 65466 72673 47001 42033. Files sent: 64635641.TXT, 10833247.TXT, 10456546.TXT, 55274700.TXT, 74314203.TXT	AM/RDFT	(AB)
HM01	9065	4-12	0757	Sun	56412 32475 65466 72673 47001 42033. Files sent: 64635641.TXT, 10833247.TXT, 10456546.TXT, 55274700.TXT, 74314203.TXT	AM/RDFT	(AB)
HM01	9240	4-12	0857	Sun	56412 32475 65466 72673 47001 42033. Files sent: 64635641.TXT, 10833247.TXT, 10456546.TXT, 55274700.TXT, 74314203.TXT	AM/RDFT	(AB)
HM01	11435	4-12	1556	Sun	56413 32476 65467 72674 47001 42034	AM/RDFT	(RR2)
HM01	9240	5-12	0855	Mon	56413 32476 65467 72674 47001 42034	AM/RDFT	(AB)
HM01	11435	5-12	1602	Mon	56414 32477 65468 72675 47002 42035	AM/RDFT	(RR2)
HM01	11530	6-12	1656	Tue	56415 72421 86751 72676 47003 42036	AM/RDFT	(RR2)
HM01	11435	7-12	1606	Wed	No signal til 1606z then RHC for 15 seconds then right into groups & data 56416 72421 86751 72677 47004 42037	AM/RDFT	(RR2)
HM01	13435	8-12	0657	Thu	56416 72421 86751 72677 47004 42037	AM/RDFT	(AB)
HM01	11635	8-12	0757	Thu	56416 72421 86751 72677 47004 42037	AM/RDFT	(AB)
HM01	12180	8-12	0952	Thu	56416 72421 86751 72677 47004 42037 early start	AM/RDFT	(AB)
HM01	17480	8-12	2228	Thu	56417 72422 86752 72678 47005 42038	AM/RDFT	(RR2)
HM01	9155	9-12	0956	Fri	56417 72422 86752 72678 47005 42038	AM/RDFT	(AB)
HM01	11530	9-12	1657	Fri	56418 72423 86753 03531 47006 42039	AM/RDFT	(RR2)
HM01	11530	9-12	1657	Fri	56418 72423 86753 03531 47006 42039	AM/RDFT	(RR2)

HM01	17480	10-12	2157	Sat	67511 72424 86754 03531 47007 08631	AM/RDFT	(RL)
HM01	9330	11-12	0707	Sun	i.p. 67511 72424 86754 03531 47007 08631	AM/RDFT	(AB-USA)
HM01	9065	11-12	0754	Sun	i.p. 67511 72424 86754 03531 47007 08631	AM/RDFT	(BvR)
HM01	9240	11-12	0853	Sun	67511 72424 86754 03531 47007 08631 early start	AM/RDFT	(AB)
HM01	11435	11-12	1606	Sun	67511 72425 86755 03532 47008 08631	AM/RDFT	(RR2)
HM01	11635	11-12	2102	Sun	Spanish numbers by YL	AM/RDFT	(CtY)
HM01	11435	12-12	1558	Mon	67512 72426 86756 03533 28831 08632	AM/RDFT	(RR2)
HM01	16180	13-12	2057	Tue	67513 72427 86757 03534 28831 08633	AM/RDFT	(RL)
HM01	16180	13-12	2140	Tue	67513 72427 86757 03534 28831 08633	AM/RDFT	(DSch)
HM01	16180	13-12	2156	Tue	67513 72427 86757 03534 28831 08633	AM/RDFT	(RR2)
HM01	17480	13-12	2157	Tue	67513 72427 86757 03534 28831 08633	AM/RDFT	(RL)
HM01	17480	13-12	2200	Tue	72427 86757 03534 28831 08633 67513	AM/RDFT	(Dan)
HM01	11530	14-12	1701	Wed	i.p. 67514 72428 86758 03535 28832 08634	AM/RDFT	(RR2)
HM01	11635	14-12	2058	Wed	67514 72428 86758 03535 28832 08634	AM/RDFT	(DSch)
HM01	11435	15-12	1626	Thu	67515 67141 86759 03536 28833 08635	AM/RDFT	(RR2)
HM01	11530	15-12	1742	Thu	67515 67141 86759 03536 28833 08635	AM/RDFT	(DSch)
HM01	16180	15-12	2101	Thu	67515 67141 86759 03536 28833 08635 Late start	AM/RDFT	(RL)
HM01	9155	16-12	0957	Fri	67515 67141 86759 03536 28833 08635	AM/RDFT	(AB)
HM01	11530	16-12	1657	Fri	67516 67141 34251 03537 28834 08636	AM/RDFT	(RR2)
HM01	11530	16-12	1705	Fri	67516 67141 34251 03537 28834 08636	AM/RDFT	(DSch)
HM01	11435	17-12	1559	Sat	67517 67142 34251 66351 28835 08637	AM/RDFT	(RR2)
HM01	17480	17-12	2200	Sat	67142 32451 66351 28835 08637 67517	AM/RDFT	(Dan)
HM01	9240	18-12	0907	Sun	i.p. 67517 67142 34251 66351 28835 08637	AM/RDFT	(AB)
HM01	11435	18-12	1556	Sun	33611 67143 34252 66351 28836 02441	AM/RDFT	(RR2)
HM01	10715	18-12	2200	Sun	33611 67143 34252 66351 28836 02441	AM/RDFT	(Dan)
HM01	11435	19-12	1608	Mon	33611 67144 34253 66352 28837 02441	AM/RDFT	(RR2)
HM01	10715	19-12	2200	Mon	33611 67144 34253 66352 28837 02441	AM/RDFT	(Dan)
HM01	11435	20-12	1639	Tue	i.p. 33612 67145 34254 66353 28838 02442	AM/RDFT	(RR2)
HM01	16180	20-12	2057	Tue	33612 67145 34254 66353 28838 02442	AM/RDFT	(RL)
HM01	17480	20-12	2157	Tue	33612 67145 34254 66353 28838 02442	AM/RDFT	(RL)
HM01	9155	21-12	0957	Wed	33612 67145 34254 66353 28838 02442	AM/RDFT	(RL)
HM01	11435	21-12	1603	Wed	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(RR2)
HM01	11530	21-12	1656	Wed	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(RR2)
HM01	9010	21-12	2310	Wed	Mixing with M08a	AM/RDFT	(Sha)
HM01	11530	22-12	1705	Thu	i.p. Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(RR2)
HM01	11635	22-12	2100	Thu	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(FPE)
HM01	9155	23-12	0953	Fri	Early start. Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(RL)
HM01	11435	23-12	1600	Fri	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(ER)
HM01	11530	23-12	1711	Fri	i.p. Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(RR2)
HM01	11635	23-12	1842	Fri	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(DSch)
HM01	11435	24-12	1626	Sat	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(RR2)
HM01	11530	24-12	1657	Sat	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(DSch)
HM01	11635	24-12	2100	Sat	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(Teot)
HM01	16180	24-12	2200	Sat	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(Dan)
HM01	11435	25-12	1558	Sun	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(RR2)
HM01	11530	25-12	1706	Sun	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(DSch)
HM01	11435	26-12	1556	Mon	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(RR2)
HM01	11435	27-12	1602	Tue	Late start	AM/RDFT	(MDK2)
HM01	11530	27-12	1708	Tue	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(RR2)
HM01	11435	28-12	1556	Wed	Repeat of Dec 20 groups: 33612 67145 34254 66353 28838 02442	AM/RDFT	(RR2)
HM01	10715	28-12	2200	Wed	33612 67145 34254 66353 28838 02442	AM/RDFT	(Dan)
HM01	11435	29-12	1601	Thu	Music followed by the Radio Habana Cuba ID, then 33613 67146 34255 66354 14551 02443	AM/RDFT	(RR2)
HM01	16180	29-12	2057	Thu	33613 67146 34255 66354 14551 02443	AM/RDFT	(RL)
HM01	11435	30-12	1559	Fri	33614 67147 34256 66355 14551 02444	AM/RDFT	(RR2)
HM01	11435	31-12	1602	Sat	Radio Habana Cuba with 2 minutes of news then at 1604z	AM/RDFT	(RR2)

					abruptly into 4th group & data: 33615 67148 34257 66356 14552 02445		
HM01	16180	31-12	2057	Sat	33615 67148 34257 66356 14552 02445	AM/RDFT	(DSch/ER)
HM02	4761	30-12	0520	Fri	293 44 = 92613 56106 97655 ... 24984 33406 82402 = repeats message = 293 44 000	FSK-19.8bd/129Hz/FSK-CW	(Benka)
M01	5320	1-12	1800	Thu	197 356 30 = = 75093 14077 41516 39230 90734 ... 36645 99743 72493 59785 87945 = = 356 30 000	CW	(MPJ)
M01	4490	1-12	2000	Thu	197 820 30 = = 30662 07193 88364 58466 20918 ... 13215 83969 94452 74721 11549 = = 820 30 000	CW	(MPJ)
M01	5320	6-12	1800	Tue	... 782 30 ... (Uncopiable)	CW	(MPJ)
M01	5320	8-12	1751	Thu	VVW's until 1802z. 197 813 30 = = 84417 24889 02698 76020 8620 (!) 83545 ... 79821 98971 71975 48114 87967 = = 813 30 000	CW	(MPJ)
M01	4490	8-12	2000	Thu	197 441 30 = = 44900 21663 13905 50038 09949 ... 41783 68067 35433 97290 26177 = = 441 30 000	CW	(MPJ)
M01	5320	13-12	1800	Tue	197	CW	(HFD)
M01	5320	13-12	1800	Tue	197 320 30 = = 98427 39113 76898 81549 77233 ... 62604 42104 42477 64887 00148 = = 320 30 000	CW	(MPJ)
M01	4490	13-12	2000	Tue	197 532 30 = = 03338 37699 19576 65366 44764 ... 79610 05072 46306 89480 52490 = = 532 30 000	CW	(MPJ)
M01	4490	15-12	2000	Thu	197 373 30 = = 77914 41707 70040 12941 87872 ... 44167 85696 75080 85003 08814 = = 373 30 000	CW	(MPJ)
M01	5320	22-12	1804	Thu	i.p. 05174 33703 ... 86482 92899 30504 03910 71422 = = 515 415 (as sent) 30 30 000	CW	(MPJ)
M01	4490	22-12	2000	Thu	197 724 30 = = 10832 57237 20015 0721. 85188 ... 23120 51983 23846 68269 47580 = = 724 30 000	CW	(MPJ)
M01	5810	24-12	1500	Sat	197 313 30 = = 0.402 7.020 24286 97480 51477 ...	CW	(MPJ)
M01	4636	27-12	1800	Tue	197 550 30 = = 98429 99515 13807 85835 63079 ... 06659 44405 82378 99798 05079 = = 550 30 000	CW	(MPJ)
M01	4490	27-12	2002	Tue	197 450 30 = = 15416 17877 10738 95527 17181 ... 84606 58776 05266 83723 41151 = = 450 30 000	CW	(MPJ)
M01	5320	29-12	1800	Thu	197 113 30 = = 16958 49951 74220 62356 95741 ... 18837 76255 68277 44431 56977 = = 113 30 000	CW	(MPJ)
M01a	4577	29-12	1553	Thu	i.p. 333 10135 10135 333 10135 10135 0 0 0	CW	(JPL-NZL)
M01b	2470	1-12	1932	Thu	910 709 33 = = 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 = = 709 33 000 //3545 kHz	MCW	(MPJ)
M01b	3545	1-12	1932	Thu	910 709 33 = = 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 = = 709 33 000 //2470 kHz	MCW	(MPJ)
M01b	2485	1-12	2042	Thu	382 709 33 = = 97968 57114 47658 66876 87152 ... //3160 kHz	MCW	(MPJ)
M01b	3160	1-12	2042	Thu	382 709 33 = = 97968 57114 47658 66876 87152 ... //2485 kHz	MCW	(MPJ)
M01b	2655	2-12	2002	Fri	866 709 33 = = 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 = = 709 33 000 //3195 kHz	MCW	(MPJ)
M01b	3195	2-12	2002	Fri	866 709 33 = = 97968 57114 47658 66876 87152 ... 77917 00531 93493 26270 52464 = = 709 33 000 //2655 kHz	MCW	(MPJ)
M01b	2435	5-12	1910	Mon	853 324 35 = = 50764 33459 11521 66491 00544 ... 15791 18383 35489 66812 51750 40018(?) = = 324 35 000 //3520 kHz	MCW	(MPJ)
M01b	3520	5-12	1910	Mon	853 324 35 = = 50764 33459 11521 66491 00544 ... 15791 18383 35489 66812 51750 40018(?) = = 324 35 000 //2435 kHz	MCW	(MPJ)
M01b	2470	8-12	1932	Thu	910 324 35 = = 50764 33459 11521 66491 00544 ... 18383 35489 66812 51750 20018 = = 324 35 000 //3545 kHz	MCW	(MPJ)
M01b	3545	8-12	1932	Thu	910 324 35 = = 50764 33459 11521 66491 00544 ... 18383 35489 66812 51750 20018 = = 324 35 000 //2470 kHz	MCW	(MPJ)
M01b	2485	8-12	2042	Thu	382 324 35 = = 50764 33459 11521 66491 00544 ... 18383 35489 66812 51750 20018 = = 324 35 000 //3160 kHz	MCW	(MPJ)
M01b	3160	8-12	2042	Thu	382 324 35 = = 50764 33459 11521 66491 00544 ... 18383 35489 66812 51750 20018 = = 324 35 000 //2485 kHz	MCW	(MPJ)
M01b	2435	12-12	1910	Mon	853 324 35 = ... 18383 35489 66812 51750 20018 = = 324 35 000 //3520 kHz	MCW	(MPJ)
M01b	3520	12-12	1910	Mon	853 324 35 = ... 18383 35489 66812 51750 20018 = = 324 35 000 //2435 kHz	MCW	(MPJ)
M01b	3205	12-12	2015	Mon	375 324 35 = ...	MCW	(MPJ)
M01b	3545	15-12	1932	Thu	910 324 35 = = 50764 33459 11521 66491 00544 ... 18383 35589 66812 51750 20018 = = 324 35 000	MCW	(MPJ)
M01b	3160	15-12	2052	Thu	362 324 35 = = Repeat of 19:32 3545 kH message. = = 362 324 25 000	MCW	(MPJ)
M01b	2435	19-12	1910	Mon	853 324 35 = = 50764 33459 11521 66491 00544 ... 18383 35489 66812 51750 20018 = = 324 35 000 //3520 kHz	MCW	(MPJ)
M01b	3520	19-12	1910	Mon	853 324 35 = = 50764 33459 11521 66491 00544 ... 18383 35489 66812 51750 20018 = = 324 35 000 //2435 kHz	MCW	(MPJ)

M01b	2470	22-12	1932	Thu	Carriers only. No traffic. //3545 kHz	MCW	(MPJ)
M01b	3545	22-12	1932	Thu	Carriers only. No traffic. //2470 kHz	MCW	(MPJ)
M01b	2470	29-12	1932	Thu	910 324 35 = = 50764 33459 11521 66491 00545 18383 35489 66812 51750 20018 = = 324 35 000 //3545 kHz	MCW	(MPJ)
M01b	3545	29-12	1932	Thu	910 324 35 = = 50764 33459 11521 66491 00545 18383 35489 66812 51750 20018 = = 324 35 000 //2470 kHz	MCW	(MPJ)
M08a	8010	21-12	2310	Wed	Mixing with HM01	CW	(Sha)
M12	7741	1-12	1310	Thu	787 787 787 000	CW	(AB)
M12	6841	1-12	1330	Thu	787 787 787 000	CW	(AB)
M12	7931	1-12	1920	Thu	257 1 987 29 36296 74524 30785 32250 26815 ... 06614 26963 85920 40636 000 000	CW	(MPJ)
M12	6904	1-12	1940	Thu	257 1 987 29 36296 74524 30785 32250 26815 ... 06614 26963 85920 40636 000 000	CW	(MPJ)
M12	5784	3-12	0600	Sat	751 751 751 000	CW	(AB)
M12	7584	3-12	0620	Sat	751 751 751 000	CW	(AB)
M12	7741	3-12	1310	Sat	787 787 787 000	CW	(AB)
M12	6841	3-12	1330	Sat	787 787 787 000	CW	(AB)
M12	8047	5-12	1810	Mon	463 1 987 29 36296 74524 30785 32250 26815 ... 06614 26963 85920 40636 63200 000 000	CW	(MPJ)
M12	6802	5-12	1830	Mon	463 1 987 29 36296 74524 30785 32250 26815 ... 06614 26963 85920 40636 63200 000 000	CW	(MPJ)
M12	5788	5-12	1850	Mon	463 1 987 29 36296 74524 30785 32250 26815 ... 06614 26963 85920 40636 63200 000 000	CW	(MPJ)
M12	13371	7-12	1400	Wed	352 1 8920 97 57184 52798 99091 ... 62331 00488 63472 000 000	CW	(AB)
M12	11571	7-12	1420	Wed	352 1 8920 97 57184 52798 99091 ... 62331 00488 63472 000 000	CW	(AB)
M12	10271	7-12	1440	Wed	352 1 8920 97 57184 52798 99091 ... 62331 00488 63472 000 000	CW	(AB)
M12	9176	7-12	1800	Wed	257 1 5704 143 53008 15671 46420 31693 52569 ... 14693 56908 46987 03763 31010 000 000	CW	(MPJ)
M12	7931	7-12	1820	Wed	257 1 5704 143 53008 15671 46420 31693 52569 ... 14693 56908 46987 03763 31010 000 000	CW	(MPJ)
M12	5788	7-12	1840	Wed	257 1 5704 143 53008 15671 46420 31693 52569 ... 14693 56908 46987 03763 31010 000 000	CW	(MPJ)
M12	8047	7-12	1900	Wed	463 1 6820 142 75782 58397 56145 82939 10975 ... 36777 43843 54622 71421 67967 000 000	CW	(MPJ)
M12	6902	7-12	1920	Wed	463 1 6820 142 75782 58397 56145 82939 10975 ... 36777 43843 54622 71421 67967 000 000	CW	(MPJ)
M12	5788	7-12	1940	Wed	463 1 6820 142 75782 58397 56145 82939 10975 ... 36777 43843 54622 71421 67967 000 000	CW	(MPJ)
M12	5312	7-12	2200	Wed	350 350 350 000	CW	(AB)
M12	4512	7-12	2220	Wed	350 350 350 000	CW	(AB)
M12	14869	8-12	1024	Thu	582 582 582 000 early start	CW	(RL)
M12	7741	8-12	1310	Thu	787 787 787 000	CW	(AB)
M12	6841	8-12	1330	Thu	787 787 787 000	CW	(AB)
M12	7931	8-12	1920	Thu	257 1 9820 126 00762 80429 52222 73788 49746 ... 51740 47475 58899 17470 96054 000 000	CW	(MPJ)
M12	6904	8-12	1940	Thu	257 1 9820 126 00762 80429 52222 73788 49746 ... 51740 47475 58899 17470 96054 000 000	CW	(MPJ)
M12	5784	10-12	0600	Sat	751 751 751 000	CW	(AB)
M12	7584	10-12	0620	Sat	751 751 751 000	CW	(AB)
M12	7741	10-12	1310	Sat	787 787 787 000	CW	(AB/MPJ)
M12	6841	10-12	1330	Sat	787 787 787 000	CW	(AB/MPJ/HFD)
M12	13371	12-12	1400	Mon	352 1 9631 51 63633 71186 97358 45426 73047 ... 45621 65161 9567. 82013 63880 000 000	CW	(MPJ)
M12	13371	14-12	1400	Wed	352 1 9631 51 63633 71186 97358 ... 95675 82013 63880 000 000	CW	(AB)
M12	11571	14-12	1420	Wed	352 1 9631 51 63633 71186 97358 ... 95675 82013 63880 000 000	CW	(AB)
M12	10271	14-12	1440	Wed	352 1 9631 51 63633 71186 97358 ... 95675 82013 63880 000 000	CW	(AB)
M12	5788	14-12	1940	Wed	463 1 1567 145 63449 41798 19824 01568 44278 ... 75629 21294 94414 74422 86284 000 000	CW	(MPJ)
M12	5312	14-12	2200	Wed	350 1 5880 157 28988 89642 07723 ... 48348 83466 08980 000 000	CW	(AB)
M12	4512	14-12	2220	Wed	350 1 5880 157 28988 89642 07723 ... 48348 83466 08980 000 000	CW	(AB)
M12	4012	14-12	2240	Wed	350 1 5880 157 28988 89642 07723 ... 48348 83466 08980 000 000	CW	(AB)
M12	5784	17-12	0600	Sat	751 1 5880 157 28988 89642 07723 ... 48348 83466 08980 000 000	CW	(AB)
M12	7584	17-12	0620	Sat	751 1 5880 157 28988 89642 07723 ... 48348 83466 08980	CW	(AB)

					000 000		
M12	9184	17-12	0640	Sat	751 1 5880 157 28988 89642 07723 ... 48348 83466 08980 000 000	CW	(AB)
M12	7741	17-12	1310	Sat	787 1 1159 67 59743 87215 21444 56779 50563 ... 31599 35199 51091 96201 70802 000 000	CW	(MPJ)
M12	5741	17-12	1330	Sat	787 1 1159 67 59743 87215 21444 56779 50563 ... 31599 35199 51091 96201 70802 000 000	CW	(MPJ)
M12	6841	17-12	1330	Sat	787 1 1159 67 59743 87215 21444 56779 50563 ... 31599 35199 51091 96201 70802 000 000	CW	(MPJ)
M12	13569	18-12	1010	Sun	582 1 8712 177 47454 47661 90681 ... 66534 72383 41444 000 000	CW	(AB/HFD)
M12	14869	18-12	1030	Sun	582 1 8712 177 47454 47661 90681 ... 66534 72383 41444 000 000	CW	(AB/HFD)
M12	16269	18-12	1050	Sun	582 1 8712 177 47454 47661 90681 ... 66534 72383 41444 000 000	CW	(AB/HFD)
M12	13371	19-12	1400	Mon	352 352 352 000	CW	(AB/MPJ)
M12	11571	19-12	1420	Mon	352 352 352 000	CW	(AB/MPJ)
M12	14493	20-12	0100	Tue	435 1 835 113 98605 27133 33737 06725 53278 ... 23111 000 000	CW	(Danix-J)
M12	13393	20-12	0120	Tue	435 1 835 113 98605 27133 33737 06725 53278 ... 23111 000 000	CW	(Danix-J)
M12	11593	20-12	0140	Tue	435 1 835 113 98605 27133 33737 06725 53278 ... 23111 000 000	CW	(Danix-J)
M12	13371	21-12	1400	Wed	352 352 352 000	CW	(AB)
M12	11571	21-12	1420	Wed	352 352 352 000	CW	(AB)
M12	5312	21-12	2200	Wed	350 350 350 000	CW	(RL)
M12	13569	22-12	1010	Thu	582 582 582 000	CW	(AB/Edd)
M12	14869	22-12	1030	Thu	582 582 582 000	CW	(AB/Edd)
M12	20829	22-12	1200	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	19034	22-12	1210	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	17423	22-12	1220	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	20829	22-12	1230	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	19034	22-12	1240	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	17423	22-12	1250	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	20829	22-12	1300	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	7741	22-12	1310	Thu	787 787 787 000	CW	(MPJ/Edd)
M12	19034	22-12	1310	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix/Edd)
M12	17423	22-12	1320	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	6841	22-12	1330	Thu	787 787 787 000	CW	(MPJ/Edd)
M12	20829	22-12	1330	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	19034	22-12	1340	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	17423	22-12	1350	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix/Edd)
M12	20829	22-12	1400	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	19034	22-12	1410	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	17423	22-12	1420	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	20829	22-12	1430	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	19034	22-12	1440	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	17423	22-12	1450	Thu	351 1 644 49 91789 87567 61961 ... 12116 88242 23255 000 000	CW	(Danix)
M12	5784	24-12	0600	Sat	751 751 751 000	CW	(AB)
M12	7584	24-12	0620	Sat	751 751 751 000	CW	(AB)
M12	13371	28-12	1400	Wed	352 352 352 000	CW	(AB)
M12	11571	28-12	1420	Wed	352 352 352 000	CW	(AB)
M12	13569	29-12	1010	Thu	582 582 582 000	CW	(AB)
M12	14869	29-12	1030	Thu	582 582 582 000	CW	(AB)
M12	7741	29-12	1310	Thu	787 1 3310 81 79057 695?13 83869 47480 65238 ... 54670	CW	(MPJ)

					02142 39690 60542 01231 000 000		
M12	5741	29-12	1350	Thu	787 1 3310 81 79057 695?13 83869 47480 65238 ... 54670 02142 39690 60542 01231 000 000	CW	(MPJ)
M12	5784	31-12	0600	Sat	751 751 751 000	CW	(AB)
M12	7584	31-12	0620	Sat	751 751 751 000	CW	(AB)
M12	7741	31-12	1310	Sat	787 787 787 000	CW	(MPJ)
M12	6841	31-12	1330	Sat	787 787 787 000	CW	(MPJ)
M14	8116	1-12	1300	Thu	441 780 56 = 13752 78200 09443 ... 61953 69842 24463 780 56 00000	CW	(Edd)
M14	5374	2-12	1700	Fri	382 382 382 00000	CW	(AB/MPJ)
M14	4975	2-12	1800	Fri	382 382 382 00000	CW	(AB/MPJ)
M14	5430	3-12	0800	Sat	171 (R) 22 50 51 52378 50126 2876 ... 73805 6281 3265 no end. Sends 91 groups vs the announced 51	CW	(AB)
M14	5430	3-12	0828	Sat	4446 12370 22431 11580 37908 62322 46339 37580 57810 2221S	CW	(AB)
M14	5560	3-12	0900	Sat	171 (R) 22 50 51 52378 50126 2876 ... 73805 6281 3265 no end. Sends 91 groups vs the announced 51	CW	(AB)
M14	8116	6-12	1300	Tue	441 926 51 = 39603 88139 86095 ... 01272 39512 85070 926 51 00000	CW	(Edd)
M14	8131	8-12	1300	Thu	441 308 57 = 73972 82918 12257 ... 59509 36816 31608 308 57 00000	CW	(Edd)
M14	5430	10-12	0800	Sat	171 (R) 2222 50 51 52378 50126 2876 ... 73805 6281 3265 no end. Sends 91 groups vs the announced 51	CW	(AB-RUS)
M14	5552	10-12	0900	Sat	New freq. 171 (R) 2222 50 51 52378 50126 2876 ... 73805 6281 3265 no end. Sends 91 groups vs the announced 51	CW	(AB-RUS)
M14	5240	11-12	2300	Sun	376 (R) 2222 50 51 52378 50126 2876 ... 73805 6281 3265 no end. Sends 91 groups vs the announced 51	CW	(AB)
M14	5825	12-12	0000	Mon	376 (R) 2222 50 51 52378 50126 2876 ... 73805 6281 3265 no end. Sends 91 groups vs the announced 51	CW	(AB)
M14	8116	13-12	1300	Tue	441 679 52 = 23229 55347 81791 ... 90211 36415 26129 679 52 00000	CW	(Edd)
M14	4631	13-12	1820	Tue	186 (R) 021 021 77 77 Long Pause 0553 7823 10208 ... 70557 13156 851 021 77 00000	CW	(AB/MPJ/BR)
M14	4761	14-12	1920	Wed	748 (R) 2222 518 86 Long Pause 3258 53500 12865 ... 2053 57286 61220 518 518 86 86 00000	CW	(AB/MPJ)
M14	8116	15-12	1300	Thu	441 238 54 = 47030 12577 33567 ... 78787 13640 46918 = 238 54 00000	CW	(Edd)
M14	5382	16-12	1700	Fri	382 382 382 0000	CW	(AB/MPJ)
M14	4975	16-12	1800	Fri	382 382 382 0000	CW	(AB/MPJ)
M14	5430	17-12	0800	Sat	171 (R) 2222 50 51 52378 50126 2876 ... 73805 6281 3265 no end. Sends 91 groups vs the announced 51	CW	(AB-POL)
M14	5560	17-12	0900	Sat	171 (R) 2222 50 51 52378 50126 2876 ... 73805 6281 3265 no end. Sends 91 groups vs the announced 51	CW	(AB-POL)
M14	5240	18-12	2300	Sun	376 (R) 2222 50 51 52378 50126 2876 ... 73805 6281 3265 no end. Sends 91 groups vs the announced 51	CW	(AB)
M14	5825	19-12	0000	Mon	376 (R) 2222 50 51 52378 50126 2876 ... 73805 6281 3265 no end. Sends 91 groups vs the announced 51	CW	(AB)
M14	8116	20-12	1300	Tue	441 609 58 = 80323 07796 98831 ... 58347 68342 22126 609 58 00000	CW	(Edd)
M14	3722.1	20-12	1508	Tue	... 48614 91542 65918 36419 48417 (stops)	CW	(MPJ)
M14	3721	20-12	1558	Tue	361 361 361 00000	CW	(AB/MPJ)
M14	8116	22-12	1300	Thu	441 823 51 = 25022 57712 27910 59554 823 51 00000	CW	(Edd)
M14	5432	24-12	0752	Sat	965 965	CW	(AB-POL)
M14	5432	24-12	0759	Sat	171 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000	CW	(AB-POL)
M14	5560	24-12	0900	Sat	171 490 91 52378 90126 42876 ... 73809 62841 32465 490 91 00000	CW	(AB-POL)
M14	5430	31-12	0800	Sat	171 (R) 427 68 37612 80644 32250 ... 53092 26061 46671 20801 427 68 00000	CW	(AB-RUS)
M14	5560	31-12	0900	Sat	171 (R) 427 68 37612 80644 32250 ... 53092 26061 46671 20801 427 68 00000	CW	(AB-RUS)
M21	4362	5-12	1800	Mon	=10524337909316 =4052405244??00 =...50701100100 =992101??8?????	CW	(MPJ)
M21	2801.5	9-12	1815	Fri	=992114??0?????	CW	(JPL-KOR)
M21	5855.5	11-12	0604	Sun	Russian Air Defense =990904??0????? =990905??0????? =990906??0????? =990907??0?????	CW	(F5JBR-KOR)
M21	2801.5	11-12	0917	Sun	Russian Air Defense =991216??0????? =991217??0????? =991218??0????? =991219??0?????	CW	(F5JBR-KOR)
M21	3771.5	11-12	0948	Sun	Russian Air Defense =9970713806441776435100080050 =01654180641530 410997384550)	CW	(F5JBR-KOR)
M21	4349.5	11-12	1258	Sun	Russian Air Defense =991558??0????? =991559??0????? =991600??0????? =991601??0????? = 11 dÚc. 16 (F5JBR)	CW	(F5JBR-KOR)
M21	4951.5	16-12	1804	Fri	=992106??0????? =992107??0????? =992106??0?????	CW	(AB)

M22	6607	12-12	2200	Mon	VVV DE 4XZ 4XZ	CW	(RL)
M22	6607	21-12	1738	Wed	VVV DE 4XZ 4XZ = =	CW	(AB)
M22	6607	23-12	1815	Fri	VVV DE 4XZ	CW	(BvR)
M22	4331	23-12	1831	Fri	VVV DE 4XZ	CW	(BvR)
M22	6607	25-12	0609	Sun	VVV DE 4XZ 4XZAR NW QTTN 1 NR 746	CW	(BvR)
M32	4245	1-12	1248	Thu	i.p. 03739 01487 01032 = WFZE WFZE WFZE DE OAKC OAKC QTC 910 35 1 1540 910 = 434 991 112 = 11111 03739 01487 ... AR	CW	(JPL-KOR)
M32	5376	8-12	2011	Thu	i.p. WTYO DE Z73V QTA 301 K	CW	(JPL-KOR)
M32	7931	9-12	1535	Fri	CQ5Z (x3) DE 8DAK (x2) K. R K	CW	(JPL-J)
M32	7678	10-12	0605	Sat	K1B4 wkg 12SS. QSX freq: 7854 kHz	CW	(F5JBR)
M32	7678	10-12	0706	Sat	K1B4 radio checks wit KGML, TXT8, SGIW, 5SAR, KS2L, ZHK6	CW	(AB)
M32	9115	10-12	0940	Sat	XXX XXX RAU89 RAU89 18626 DOPARSKIJ 2339 0842 K	CW	(Danix)
M32	4582	10-12	1721	Sat	RDL RDL RDL 11111 25676 39380 37396 37396 ... 68618 37547 51675 47539 10047 K XXX XXX into T600 50/200	CW	(AB)
M32	3150	11-12	0800	Sun	AJ37 wkg AJ35 (Comms checks)	CW	(F5JBR-KOR)
M32	7931	11-12	1443	Sun	TG6D wkg 3SS. QSX on 5479//6220 kHz	CW	(F5JBR-KOR)
M32	12692	12-12	0711	Mon	PSKE wkg outstaions	CW	(F5JBR-KOR)
M32	4950	16-12	1808	Fri	PIOW DE TYA1 QSA3 CFM K	CW	(AB)
M32a	15586	5-12	0936	Mon	RCV: HQ Black Fleet Sevastopol. Navarea messages to RIP90 and RBE86	CW	(SP1)
M32a	9115	10-12	1205	Sat	RCV DE RIR98 608 19 10 1500 608 = SML FOR RJE73 RJH45 = 10121 99358 10348 ... 20000 88000 80000 10015 = + RIR98 K	CW	(WP3)
M32a	3254	11-12	0822	Sun	i.p. FM RCC FOR à = à 22231 56789 98765 12345 54321 00480 11018 = AR RCC and RCC OK QRU K	CW	(F5JBR-KOR)
M32a	12464	18-12	0630	Sun	rcv de rmcw qys8 08692 456627 fenenko 1400 08692 230745 woroChilow 1405 08692 450720 iqenko 1410 08692 922231 molodow 1415 08692 482473 CHalew 1420 k	CW	(WP3)
M32a	15586	31-12	0855	Sat	XXX XXX RVJ RVJ 32237 OBETOGL 4574 5599 K	CW	(WP3)
M32a	15586	31-12	0900	Sat	XXX XXX RVJ RVJ 39802 KOKOFAWN 2263 5996 K	CW	(WP3)
M32a	15586	31-12	0905	Sat	XXX XXX RVJ RVJ 53097 KUSTOTOLX 4918 2870 K	CW	(WP3)
M32a	15586	31-12	0915	Sat	XXX XXX RVJ RVJ 74377 NEPOLNOTA 1550 0992 K	CW	(WP3)
M32a	15586	31-12	0925	Sat	XXX XXX RVJ RVJ 00410 GIÍKA 7919 1163 K	CW	(WP3)
M32a	15586	31-12	0936	Sat	XXX XXX RVJ RVJ 20716 WOLOSNOB 1598 1026 K	CW	(WP3)
M32a	15586	31-12	0938	Sat	XXX XXX RVJ RVJ 27917 WX NOLAJM 2299 9531 K	CW	(WP3)
M32c	8112	9-12	1200	Fri	W-markers: Tu-95MS Bear H net	CW	(Tom)
M32c	15870	12-12	0558	Mon	REA9 wkg RPD2: NW NR 251 GR 56 = UÈBNAW = XIUEA WFZTI ...	CW	(F5JBR)
M41	7988.5	11-12	2307	Sun	JKHT DE DT1P K. QSA 2 QSA ? WZD QRJ ? K. R K	CW	(JPL-KOR)
M42	11083	2-12	1210	Fri	Russian intel tests: 2min45s data	MFSK-16 132Bd	(linkz)
M42	10161	2-12	1220	Fri	Russian intel tests: 2min45s data	MFSK-16 132Bd	(linkz)
M42	9267	2-12	1230	Fri	Russian intel tests: 2min45s data	MFSK-16 132Bd	(linkz)
M42	8097	2-12	1240	Fri	Russian intel tests: 2min45s data	MFSK-16 132Bd	(linkz)
M42	7563	2-12	1250	Fri	Russian intel tests: 2min45s data	MFSK-16 132Bd	(linkz)
M42	19673	4-12	0910	Sun	Russian intel tests: 4min28s data	MFSK-16 66Bd	(linkz)
M42	18306	4-12	0920	Sun	Russian intel tests: 4min28s data	MFSK-16 66Bd	(linkz)
M42	16099	4-12	0930	Sun	Russian intel tests: 4min28s data	MFSK-16 66Bd	(linkz)
M42	14496	4-12	0940	Sun	Russian intel tests: 4min28s data	MFSK-16 66Bd	(linkz)
M42	13498	4-12	0950	Sun	Russian intel tests: 4min28s data	MFSK-16 66Bd	(linkz)
M42	11557	4-12	1200	Sun	Russian intel tests: 3min53sec data	MFSK-16 33Bd	(linkz)
M42	11083	4-12	1210	Sun	Russian intel tests: 3min53sec data	MFSK-16 33Bd	(linkz)
M42	10161	4-12	1220	Sun	Russian intel tests: 3min53sec data	MFSK-16 33Bd	(linkz)
M42	9267	4-12	1230	Sun	Russian intel tests: 3min53sec data	MFSK-16 33Bd	(linkz)
M42	8097	4-12	1240	Sun	Russian intel tests: 3min53sec data	MFSK-16 33Bd	(linkz)
M42	7563	4-12	1250	Sun	Russian intel tests: 3min53sec data	MFSK-16 33Bd	(linkz)
M42	10156	16-12	1154	Fri	RGP RGP RGP DE UCC UCC QSY 15612 15612 QSY 15612 RGP RGP DE UCC UCC QSY 15612 QSY 15612	CW	(AB)
M42b	6930	9-12	0630	Fri	K4MT wkg NT9P. Opchat in CW, msg in FSK 50/500	CW	(F5JBR)
M42b	9202	9-12	1134	Fri	Russian diplo/intel. Opchat NT9P NT9P NT9P DE K4MT K4MT QSA3 QTC1 ZCZ K, then into FSK 50/500	CW	(AB)
M42b	9202	9-12	1136	Fri	Russian diplo/intel. 987 123 9 1120 3708 = 44316 37367 78727 ... 59988 30216 30697 - 1138 (=50 and =100= sepe-ators)	FSK 50/500	(AB)
M42b	9202	9-12	1139	Fri	Russian diplo/intel. Opchat after the FSK message: R M NIL QRU? K. QRU? K. ZVP K. BK QRV K. R 332 1141 K. NIL SK	CW	(AB)
M42b	5439	11-12	1334	Sun	IK7R wkg M8TD. QSY 56218	CW	(F5JBR-KOR)
M42b	5460	15-12	0922	Thu	IK7G wkg M8TK QSY 94251	CW	(F5JBR-J)
M42b	5923	16-12	1805	Fri	TYA1 wkg PI2W. opchat in Morse: QRU NIL SK QRX 11598. Msgs in FSK 50/500	CW	(F5JBR-J)
M42b	9371	21-12	0415	Wed	ESU6 wkg K3F8. QSY 62734	CW	(F5JBR-J)
M42b	5471	21-12	1345	Wed	7VOL wkg 492M. QSY 96547	CW	(F5JBR-J)
M42b	5147	21-12	1735	Wed	492M wkg 7VOL. QRU NIL QAP	CW	(F5JBR-J)
M42b	7693	22-12	0937	Thu	V278 wkg TNFR. QTC 1 ZCZ K. Msgs in FSK 50/500	CW	(F5JBR-J)

M42b	7485	22-12	1855	Thu	492M wkg 7VOL. QRU NIL QAP	CW	(F5JBR-J)
M42b	5147	22-12	1900	Thu	492M wkg 7VOL. QRU NIL QAP	CW	(F5JBR-J)
M42b	9432	23-12	0523	Fri	862N wkg J8OL. QTC 1 ZZC K. Msgs in FSK 50/500	CW	(F5JBR-J)
M42b	14924	27-12	1332	Tue	Russian Intelligence K4MT/NT9P net, Moscow	FSK 50/500	(MCO)
M42b	16331	29-12	1035	Thu	Russian diplo/intel. K4MT/NT9P Net	FSK 50/500	(Benka)
M42c	18169	2-12	2230	Fri	Link ID 00116, Date 2nd, Serial #53, Groups 198: 11177 00116 27456 02053 01989	FSK 200/500	(Danix-USA)
M42c	15765	2-12	2240	Fri	Link ID 00116, Date 2nd, Serial #53, Groups 198: 11177 00116 27456 02053 01989	FSK 200/500	(Danix-USA)
M42c	18169	2-12	2330	Fri	Link ID 00116, Date 2nd, Serial #53, Groups 198: 11177 00116 27456 02053 01989	FSK 200/500	(Danix-USA)
M42c	15765	2-12	2340	Fri	Link ID 00116, Date 2nd, Serial #53, Groups 198: 11177 00116 27456 02053 01989	FSK 200/500	(Danix-USA)
M42c	20562	3-12	1300	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-S/Danix)
M42c	18194	3-12	1310	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-S/Danix)
M42c	16107	3-12	1320	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	8129	3-12	1810	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
M42c	6824	3-12	1820	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
M42c	4471	3-12	1830	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	10884	5-12	0025	Mon	Russian diplo/intel.	FSK 200/500	(Danix-USA)
M42c	8157	5-12	0035	Mon	Russian diplo/intel.	FSK 200/500	(Danix-USA)
M42c	10884	5-12	0125	Mon	Russian diplo/intel.	FSK 200/500	(Danix-USA)
M42c	8157	5-12	0135	Mon	Russian diplo/intel.	FSK 200/500	(Danix-USA)
M42c	17471	7-12	0000	Wed	Russian diplo/intel. =8131 64683868300658 =8772 68300658493 ... 20+++++++144	FSK 200/500	(RL)
M42c	18169	9-12	2230	Fri	Russian diplo/intel. =8510 79103594846929033 =8311 303379499194206128 ...	FSK 200/500	(RL)
M42c	20562	10-12	1300	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/MPJ/H FD)
M42c	18194	10-12	1310	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/MPJ/H FD)
M42c	16107	10-12	1320	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/HFD)
M42c	8129	10-12	1810	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix-GRC)
M42c	6824	10-12	1820	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix-GRC)
M42c	4471	10-12	1830	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix-GRC/MPJ)
M42c	10884	12-12	0025	Mon	Link ID 00117, Date 9th, Serial #54, Groups 204	FSK 200/500	(Danix)
M42c	8157	12-12	0035	Mon	Link ID 00117, Date 9th, Serial #54, Groups 204	FSK 200/500	(Danix)
M42c	10884	12-12	0125	Mon	Link ID 00117, Date 9th, Serial #54, Groups 204	FSK 200/500	(Danix)
M42c	8157	12-12	0135	Mon	Link ID 00117, Date 9th, Serial #54, Groups 204	FSK 200/500	(Danix)
M42c	20562	17-12	1300	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix)
M42c	18194	17-12	1310	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/MPJ)
M42c	16107	17-12	1320	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/MPJ)
M42c	8129	17-12	1810	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	6824	17-12	1820	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB/Danix)
M42c	4471	17-12	1830	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB/Danix/MPJ)
M42c	10884	19-12	0025	Mon	Russian diplo/intel. Link ID 00117, Date 16th, Serial #55, Groups 207	FSK 200/500	(Danix-USA)
M42c	8157	19-12	0035	Mon	Russian diplo/intel. Link ID 00117, Date 16th, Serial #55, Groups 207	FSK 200/500	(Danix-USA)
M42c	10884	19-12	0125	Mon	Russian diplo/intel. Link ID 00117, Date 16th, Serial #55, Groups 207	FSK 200/500	(Danix-USA)
M42c	8157	19-12	0135	Mon	Russian diplo/intel. Link ID 00117, Date 16th, Serial #55, Groups 207	FSK 200/500	(Danix-USA)
M42c	14421	21-12	0000	Wed	Russian diplo/intel. Serial #98, Groups 245	FSK 200/500	(Danix-J)
M42c	17471	21-12	0000	Wed	Russian diplo/intel. Serial #98, Groups 245	FSK 200/500	(Danix-J)
M42c	18169	23-12	2230	Fri	Russian diplo/intel. Link ID 00116, Date 23rd, Serial #56, Groups 237	FSK 200/500	(Danix-USA)
M42c	15765	23-12	2240	Fri	Russian diplo/intel. Link ID 00116, Date 23rd, Serial #56, Groups 237	FSK 200/500	(Danix-USA)
M42c	20562	24-12	1300	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix)
M42c	18194	24-12	1310	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix)
M42c	16107	24-12	1320	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-RUS/Danix/BvR)
M42c	8129	24-12	1810	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-AUT/Danix)
M42c	6824	24-12	1820	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-AUT/Danix)

M42c	4471	24-12	1830	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-AUT/Danix)
M42c	18169	30-12	2230	Fri	Russian diplo/intel. Link ID 00116, Date 30th, Serial #57, Groups 176	FSK 200/500	(Danix-USA)
M42c	15765	30-12	2240	Fri	Russian diplo/intel. Link ID 00116, Date 30th, Serial #57, Groups 176	FSK 200/500	(Danix-USA)
M42c	20562	31-12	1300	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-I/MPJ/Danix)
M42c	18194	31-12	1310	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-I/MPJ/Danix)
M42c	16107	31-12	1320	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-I/MPJ/Danix)
M42c	8129	31-12	1810	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-AUT/Danix)
M42c	6824	31-12	1820	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-AUT/Danix)
M42c	4471	31-12	1830	Sat	Russian diplo/intel)5761 00000+++++++162	FSK 200/500	(AB-AUT/MPJ/Danix)
M42d	20082	1-12	0600	Thu	Russian diplo/intel. Link ID 32817, Date 26th, Serial #95, Groups 248; Link ID 32816, Date 26th, Serial #96, Groups 185	FSK 200/1000	(Danix)
M42d	18207	1-12	0610	Thu	Russian diplo/intel. Link ID 32817, Date 26th, Serial #95, Groups 248; Link ID 32816, Date 26th, Serial #96, Groups 185	FSK 200/1000	(Danix)
M42d	16141	1-12	0620	Thu	Russian diplo/intel. Link ID 32817, Date 26th, Serial #95, Groups 248; Link ID 32816, Date 26th, Serial #96, Groups 185	FSK 200/1000	(Danix)
M42d	12169	1-12	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	10364	1-12	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	8168	1-12	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	15623	3-12	1100	Sat	Russian diplo/intel. Link ID 36882, Date 2nd, Serial #75, Groups 331	FSK 200/1000	(AB/Danix)
M42d	13854	3-12	1110	Sat	Russian diplo/intel. Link ID 36882, Date 2nd, Serial #75, Groups 331	FSK 200/1000	(AB/Danix)
M42d	11586	3-12	1120	Sat	Russian diplo/intel. Link ID 36882, Date 2nd, Serial #75, Groups 331	FSK 200/1000	(AB/Danix)
M42d	20648	3-12	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
M42d	18483	3-12	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
M42d	16196	3-12	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix)
M42d	6788	4-12	0500	Sun	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(Danix)
M42d	5384	4-12	0510	Sun	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(Danix)
M42d	4454	4-12	0520	Sun	Russian diplo/intel. Null msg on link 45079	FSK 200/1000	(Danix)
M42d	11586	4-12	1100	Sun	Russian diplo/intel. Link ID 36882, Date 2nd, Serial #75, Groups 331	FSK 200/1000	(AB/Danix)
M42d	15623	4-12	1100	Sun	Russian diplo/intel. Link ID 36882, Date 2nd, Serial #75, Groups 331	FSK 200/1000	(AB/Danix)
M42d	13854	4-12	1110	Sun	Russian diplo/intel. Link ID 36882, Date 2nd, Serial #75, Groups 331	FSK 200/1000	(AB/Danix)
M42d	11084	4-12	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	9346	4-12	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	7829	4-12	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	9228	6-12	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	7845	6-12	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	5269	6-12	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	8048	6-12	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	6789	6-12	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	4038	6-12	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	20157	7-12	0600	Wed	Russian diplo/intel.	FSK 200/1000	(Danix-J)
M42d	18241	7-12	0610	Wed	Russian diplo/intel.	FSK 200/1000	(Danix-J)
M42d	16204	7-12	0620	Wed	Russian diplo/intel.	FSK 200/1000	(Danix-J)
M42d	20838	7-12	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	18294	7-12	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	16313	7-12	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	20983	7-12	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	19139	7-12	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	17463	7-12	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix/RL)
M42d	17478	7-12	1230	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix)
M42d	15838	7-12	1240	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix)
M42d	13387	7-12	1250	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix)
M42d	20157	8-12	0600	Thu	Russian diplo/intel. Msg on link 32817	FSK 200/1000	(AB-KOR)
M42d	18241	8-12	0610	Thu	Russian diplo/intel. Msg on link 32817	FSK 200/1000	(AB-KOR)
M42d	16204	8-12	0620	Thu	Russian diplo/intel. Msg on link 32817	FSK 200/1000	(AN-KOR)
M42d	12169	8-12	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	10364	8-12	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	8168	8-12	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	13938	10-12	0900	Sat	Russian diplo/intel. Link ID 45114, Date 9th, Serial #45, Groups 84	FSK 200/1000	(Danix)
M42d	12136	10-12	0910	Sat	Russian diplo/intel. Link ID 45114, Date 9th, Serial #45, Groups 84	FSK 200/1000	(Danix)
M42d	10314	10-12	0920	Sat	Russian diplo/intel. Link ID 45114, Date 9th, Serial #45, Groups 84	FSK 200/1000	(Danix)
M42d	20951	10-12	1000	Sat	Russian diplo/intel. Link ID 45057, Date 9th, Serial #90,	FSK 200/1000	(AB-RUS/Danix)

					Groups 231		
M42d	18643	10-12	1010	Sat	Russian diplo/intel. Link ID 45057, Date 9th, Serial #90, Groups 231	FSK 200/1000	(AB-RUS/Danix)
M42d	16314	10-12	1020	Sat	Russian diplo/intel. Link ID 45057, Date 9th, Serial #90, Groups 231	FSK 200/1000	(AB/Danix)
M42d	15623	10-12	1100	Sat	Russian diplo/intel. Link ID 36882, Date 9th, Serial #76, Groups 305	FSK 200/1000	(AB/Danix)
M42d	13854	10-12	1110	Sat	Russian diplo/intel. Link ID 36882, Date 9th, Serial #76, Groups 305	FSK 200/1000	(AB/Danix)
M42d	11586	10-12	1120	Sat	Russian diplo/intel. Link ID 36882, Date 9th, Serial #76, Groups 305	FSK 200/1000	(AB/Danix)
M42d	20648	10-12	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
M42d	18483	10-12	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-TUS)
M42d	16196	10-12	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
M42d	13938	11-12	0900	Sun	Russian diplo/intel. Link ID 45114, Date 9th, Serial #45, Groups 84	FSK 200/1000	(Danix)
M42d	12136	11-12	0910	Sun	Russian diplo/intel. Link ID 45114, Date 9th, Serial #45, Groups 84	FSK 200/1000	(Danix)
M42d	10314	11-12	0920	Sun	Russian diplo/intel. Link ID 45114, Date 9th, Serial #45, Groups 84	FSK 200/1000	(Danix)
M42d	20951	11-12	1000	Sun	Russian diplo/intel. Link ID 45057, Date 9th, Serial #90, Groups 231	FSK 200/1000	(AB/Danix)
M42d	18643	11-12	1010	Sun	Russian diplo/intel. Link ID 45057, Date 9th, Serial #90, Groups 231	FSK 200/1000	(AB/Danix)
M42d	16314	11-12	1020	Sun	Russian diplo/intel. Link ID 45057, Date 9th, Serial #90, Groups 231	FSK 200/1000	(AB/Danix)
M42d	15623	11-12	1100	Sun	Russian diplo/intel. Link ID 36882, Date 9th, Serial #76, Groups 305	FSK 200/1000	(AB/Danix)
M42d	13854	11-12	1110	Sun	Russian diplo/intel. Link ID 36882, Date 9th, Serial #76, Groups 305	FSK 200/1000	(AB/Danix)
M42d	11586	11-12	1120	Sun	Russian diplo/intel. Link ID 36882, Date 9th, Serial #76, Groups 305	FSK 200/1000	(AB/Danix)
M42d	11084	11-12	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	9346	11-12	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	7829	11-12	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	9228	13-12	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	7845	13-12	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix)
M42d	5269	13-12	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	8048	13-12	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	6789	13-12	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	4038	13-12	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	20157	14-12	0600	Wed	Russian diplo/intel. Link ID 32817, Date 10th, Serial #98, Groups 281; Link ID 32817, Date 10th, Serial #99, Groups 270	FSK 200/1000	(AB-J/Danix-J)
M42d	18241	14-12	0610	Wed	Russian diplo/intel. Link ID 32817, Date 10th, Serial #98, Groups 281; Link ID 32817, Date 10th, Serial #99, Groups 270	FSK 200/1000	(AB-J/Danix-J)
M42d	16204	14-12	0620	Wed	Russian diplo/intel. Link ID 32817, Date 10th, Serial #98, Groups 281; Link ID 32817, Date 10th, Serial #99, Groups 270	FSK 200/1000	(AB-J/Danix-J)
M42d	20838	14-12	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-AUT/Danix)
M42d	18294	14-12	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-AUT/Danix)
M42d	16313	14-12	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB-AUT/Danix)
M42d	20875	14-12	0900	Wed	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(AB/Danix)
M42d	18747	14-12	0910	Wed	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(AB/Danix)
M42d	16316	14-12	0920	Wed	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(AB/Danix)
M42d	20983	14-12	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	19139	14-12	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix/RL)
M42d	18046	14-12	1015	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	17463	14-12	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix/RL)
M42d	16326	14-12	1025	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	14944	14-12	1035	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	20157	15-12	0600	Thu	Russian diplo/intel. Link ID 32817, Date 10th, Serial #98, Groups 281; Link ID 32817, Date 10th, Serial #99, Groups 270	FSK 200/1000	(AB-NZL/Danix-J)
M42d	18241	15-12	0610	Thu	Russian diplo/intel. Link ID 32817, Date 10th, Serial #98, Groups 281; Link ID 32817, Date 10th, Serial #99, Groups 270	FSK 200/1000	(AB-NZL/Danix-J)
M42d	16204	15-12	0620	Thu	Russian diplo/intel. Link ID 32817, Date 10th, Serial #98, Groups 281; Link ID 32817, Date 10th, Serial #99, Groups 270	FSK 200/1000	(AN-NZL/Danix-J)
M42d	20875	15-12	0900	Thu	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(AB/Danix)

M42d	18747	15-12	0910	Thu	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(AB/Danix)
M42d	16316	15-12	0920	Thu	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(AB/Danix)
M42d	12169	15-12	1330	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	10364	15-12	1340	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	8168	15-12	1350	Thu	Russian diplo/intel. Null msg on link 49237	FSK 200/1000	(AB/Danix)
M42d	15623	17-12	1100	Sat	Russian diplo/intel. Link ID 36882, Date 16th, Serial #77, Groups 239	FSK 200/1000	(AB/Danix)
M42d	13854	17-12	1110	Sat	Russian diplo/intel. Link ID 36882, Date 16th, Serial #77, Groups 239	FSK 200/1000	(AB/Danix)
M42d	11586	17-12	1120	Sat	Russian diplo/intel. Link ID 36882, Date 16th, Serial #77, Groups 239	FSK 200/1000	(AB/Danix)
M42d	20648	17-12	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix-RUS)
M42d	18483	17-12	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix-RUS)
M42d	16196	17-12	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(Danix-RUS)
M42d	15623	18-12	1100	Sun	Russian diplo/intel. Link ID 36882, Date 16th, Serial #77, Groups 239	FSK 200/1000	(AB/Danix)
M42d	13854	18-12	1110	Sun	Russian diplo/intel. Link ID 36882, Date 16th, Serial #77, Groups 239	FSK 200/1000	(AB/Danix)
M42d	11586	18-12	1120	Sun	Russian diplo/intel. Link ID 36882, Date 16th, Serial #77, Groups 239	FSK 200/1000	(AB/Danix)
M42d	11084	18-12	1530	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	9346	18-12	1540	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	7829	18-12	1550	Sun	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB/Danix/MPJ)
M42d	6788	19-12	0500	Mon	Russian diplo/intel. Link ID 45079, Null message	FSK 200/1000	(Danix)
M42d	5384	19-12	0510	Mon	Russian diplo/intel. Link ID 45079, Null message	FSK 200/1000	(Danix)
M42d	4454	19-12	0520	Mon	Russian diplo/intel. Link ID 45079, Null message	FSK 200/1000	(Danix)
M42d	9228	20-12	1650	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix/MPJ)
M42d	7845	20-12	1700	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix/MPJ)
M42d	5269	20-12	1710	Tue	Russian diplo/intel. Null msg on link 20501	FSK 200/1000	(AB-RUS/Danix/MPJ)
M42d	8048	20-12	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	6789	20-12	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	4038	20-12	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	16321	21-12	0200	Wed	Russian diplo/intel. Link ID 41018, Date 21st, Serial #40, Groups 225	FSK 200/1000	(Danix-J)
M42d	14881	21-12	0300	Wed	Russian diplo/intel. Link ID 41018, Date 21st, Serial #40, Groups 225	FSK 200/1000	(Danix-J)
M42d	20157	21-12	0600	Wed	Russian diplo/intel. Null msg on link 32816	FSK 200/1000	(AB-NZL/Danix)
M42d	18241	21-12	0610	Wed	Russian diplo/intel. Null msg on link 32816	FSK 200/1000	(AB-NZL/Danix)
M42d	16204	21-12	0620	Wed	Russian diplo/intel. Null msg on link 32816	FSK 200/1000	(AB-NZL/Danix)
M42d	20838	21-12	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	18294	21-12	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	16313	21-12	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	20983	21-12	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	19139	21-12	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix/RL)
M42d	17463	21-12	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	17478	21-12	1230	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/MPJ)
M42d	15838	21-12	1240	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/MPJ)
M42d	13387	21-12	1250	Wed	Russian diplo/intel. Null msg on link 53277	FSK 200/1000	(AB/Danix/MPJ)
M42d	12169	22-12	1330	Thu	Russian diplo/intel. Link ID 49237, Date 21st, Serial #25, Groups 128; Link ID 49237, Date 21st, Serial #26, Groups 276	FSK 200/1000	(AB/Danix/MPJ)
M42d	10364	22-12	1340	Thu	Russian diplo/intel. Link ID 49237, Date 21st, Serial #25, Groups 128; Link ID 49237, Date 21st, Serial #26, Groups 276	FSK 200/1000	(AB/Danix/MPJ)
M42d	8168	22-12	1350	Thu	Russian diplo/intel. Link ID 49237, Date 21st, Serial #25, Groups 128; Link ID 49237, Date 21st, Serial #26, Groups 276	FSK 200/1000	(AB/Danix/MPJ)
M42d	12169	23-12	1330	Fri	Russian diplo/intel. Link ID 49237, Date 21st, Serial #25, Groups 128; Link ID 49237, Date 21st, Serial #26, Groups 276	FSK 200/1000	(AB/Danix/MPJ)
M42d	10364	23-12	1340	Fri	Russian diplo/intel. Link ID 49237, Date 21st, Serial #25, Groups 128; Link ID 49237, Date 21st, Serial #26, Groups 276	FSK 200/1000	(AB/Danix/MPJ)
M42d	8168	23-12	1350	Fri	Russian diplo/intel. Link ID 49237, Date 21st, Serial #25, Groups 128; Link ID 49237, Date 21st, Serial #26, Groups 276	FSK 200/1000	(AB/Danix/MPJ)
M42d	13938	24-12	0900	Sat	Russian diplo/intel. Link ID 45114, Date 23rd, Serial #46, Groups 134	FSK 200/1000	(AB/Danix)
M42d	12136	24-12	0910	Sat	Russian diplo/intel. Link ID 45114, Date 23rd, Serial #46, Groups 134	FSK 200/1000	(AB/Danix)
M42d	10314	24-12	0920	Sat	Russian diplo/intel. Link ID 45114, Date 23rd, Serial #46, Groups 134	FSK 200/1000	(AB/Danix)
M42d	20951	24-12	1000	Sat	Russian diplo/intel. Link ID 45057, Date 9th, Serial #90, Groups 231	FSK 200/1000	(AB-RUS/Danix)

M42d	18643	24-12	1010	Sat	Russian diplo/intel. Link ID 45057, Date 9th, Serial #90, Groups 231	FSK 200/1000	(AB-RUS/Danix)
M42d	16314	24-12	1020	Sat	Russian diplo/intel. Link ID 45057, Date 9th, Serial #90, Groups 231	FSK 200/1000	(AB-RUS/Danix)
M42d	15623	24-12	1100	Sat	Russian diplo/intel. Link ID 36882, Date 23rd, Serial #78, Groups 198	FSK 200/1000	(AB/Danix/BvR)
M42d	13854	24-12	1110	Sat	Russian diplo/intel. Link ID 36882, Date 23rd, Serial #78, Groups 198	FSK 200/1000	(AB/Danix/BvR)
M42d	11586	24-12	1120	Sat	Russian diplo/intel. Link ID 36882, Date 23rd, Serial #78, Groups 198	FSK 200/1000	(AB/Danix/BvR)
M42d	20648	24-12	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
M42d	18483	24-12	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
M42d	16196	24-12	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/Danix-RUS)
M42d	12133	27-12	1500	Tue	Russian diplo/intel. Link ID 16404, Date 26th, Serial #18, Groups 273	FSK 200/1000	(Danix)
M42d	10274	27-12	1510	Tue	Russian diplo/intel. Link ID 16404, Date 26th, Serial #18, Groups 273	FSK 200/1000	(Danix)
M42d	8148	27-12	1520	Tue	Russian diplo/intel. Link ID 16404, Date 26th, Serial #18, Groups 273	FSK 200/1000	(Danix)
M42d	9313	27-12	1650	Tue	Russian diplo/intel. Link ID 20501, Null message	FSK 200/1000	(Danix)
M42d	7928	27-12	1700	Tue	Russian diplo/intel. Link ID 20501, Null message	FSK 200/1000	(Danix)
M42d	6783	27-12	1710	Tue	Russian diplo/intel. Link ID 20501, Null message	FSK 200/1000	(Danix)
M42d	8048	27-12	2300	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	6789	27-12	2310	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	4038	27-12	2320	Tue	Russian diplo/intel. Null msg on link 40988	FSK 200/1000	(AB/Danix)
M42d	20838	28-12	0800	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	18294	28-12	0810	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	16313	28-12	0820	Wed	Russian diplo/intel. Null msg on link 45075	FSK 200/1000	(AB/Danix)
M42d	20875	28-12	0900	Wed	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(AB-RUS/Danix)
M42d	18747	28-12	0910	Wed	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(AB-RUS/Danix)
M42d	16316	28-12	0920	Wed	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(AB-RUS/Danix)
M42d	20983	28-12	1000	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	19139	28-12	1010	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	18046	28-12	1015	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	17463	28-12	1020	Wed	Russian diplo/intel. Null msg on link 49202	FSK 200/1000	(AB/Danix)
M42d	16326	28-12	1025	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	14944	28-12	1035	Wed	Russian diplo/intel. Null msg on link 20492	FSK 200/1000	(AB/Danix)
M42d	20875	29-12	0900	Thu	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(Danix)
M42d	18747	29-12	0910	Thu	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(Danix)
M42d	16316	29-12	0920	Thu	Russian diplo/intel. Link ID 16405, Date 13th, Serial #7, Groups 148	FSK 200/1000	(Danix)
M42d	12169	29-12	1330	Thu	Russian diplo/intel. Null message on link 49237	FSK 200/1000	(AB/Danix/MPJ)
M42d	10364	29-12	1340	Thu	Russian diplo/intel. Null message on link 49237	FSK 200/1000	(AB/Danix)
M42d	8168	29-12	1350	Thu	Russian diplo/intel. Null message on link 49237	FSK 200/1000	(AB/Danix/MPJ)
M42d	15623	31-12	1100	Sat	Russian diplo/intel. Null message on link 36882	FSK 200/1000	(AB/Danix)
M42d	13854	31-12	1110	Sat	Russian diplo/intel. Null message on link 36882	FSK 200/1000	(AB/Danix)
M42d	11586	31-12	1120	Sat	Russian diplo/intel. Null message on link 36882	FSK 200/1000	(AB/Danix)
M42d	20648	31-12	1500	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/MPJ/Danix-RUS)
M42d	18483	31-12	1510	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/MPJ/Danix-RUS)
M42d	16196	31-12	1520	Sat	Russian diplo/intel. Null msg on link 32821	FSK 200/1000	(AB-RUS/MPJ/Danix-RUS)
M51	6825	3-12	1717	Sat	FAV22: French Morse Practice 1717 CW ... ZJQKA GDJSU 45632 ... 5LGs, 5FGs and punctuation	CW	(MPJ)
M51a	3881	6-12	1604	Tue	FAV22: French Morse Lesson i.p. jqkyh xwvol yhsje 63528 ...	CW	(MPJ)
M51a	6825	10-12	1515	Sat	FAV22: French Morse Lesson ... UJBGT CVXJS ZUJKQ 27108 HAJKR ...	CW	(MPJ)
M51a	6825	12-12	2009	Mon	FAV22: French Morse Lesson. 5LGs, 5FGs, punctuation.	CW	(MPJ)
M51a	6825	13-12	1132	Tue	FAV22: French Morse Lesson. 5LGs, 5FGs, punctuation	CW	(MPJ)
M51a	6825	19-12	2000	Mon	FAV22: French Morse Lesson 2000 CW 5FGs, 5LGs, punctuation	CW	(MPJ)

M89	6093	1-12	0304	Thu	i.p. 746D T647 DTUA D76T 7TD6 ... III = 653T AR V NG3Y DE 2QLC //10414 (see N&O 231)	CW	(JPL)
M89	9044	1-12	0304	Thu	i.p. ND4U TDA3 D7U6 UA4D 4376 (see N&O 231)	CW	(JPL)
M89	10414	1-12	0304	Thu	i.p. 746D T647 DTUA D76T 7TD6 ... III = 653T AR V NG3Y DE 2QLC //6093	CW	(JPL)
M89	8083	1-12	0356	Thu	i.p. R RPT 65W K (see N&O 231)	CW	(JPL)
M89	6777	1-12	0414	Thu	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6793	1-12	0414	Thu	V M8JF (x3) DE RIS9 (x2) //6777	CW	(JPL)
M89	6093	1-12	1020	Thu	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	5083	1-12	1030	Thu	VV F0PQ DE FJPU K	CW	(JPL)
M89	3800	1-12	1041	Thu	i.p. 9 81 1201 1830 RMKS CQ K GA = 76UD TDA3 3AU6 7AN4 UT5D A67D D6AN N4T3 6N5A ...	CW	(JPL)
M89	3777	1-12	1051	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	1-12	1051	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3538	1-12	1056	Thu	(i.p. 5T6A N4T5 367D NTD5 ... AR QSL ? R QSL 1850 K	CW	(JPL)
M89	4859	1-12	1255	Thu	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	3642	1-12	1716	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6093	1-12	2309	Thu	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	10414	1-12	2309	Thu	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	6840	2-12	0820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	2-12	0820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6093	2-12	0825	Fri	2QLC i.p. UT4D 6UN3 43T5 A6TD 3T3 III = 37N3 (see N&O 231) //10414	CW	(JPL)
M89	10414	2-12	0826	Fri	2QLC i.p. UT4D 6UN3 43T5 A6TD 3T3 III = 37N3 (see N&O 231) //6093	CW	(JPL)
M89	3777	2-12	0951	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	2-12	0951	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5801	2-12	1010	Fri	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	2-12	1010	Fri	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	5177	2-12	1018	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5177	2-12	1129	Fri	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3832	2-12	1820	Fri	VV 5GUK DE QCR5 K (see N&O 231)	CW	(JPL)
M89	3642	2-12	1849	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6777	3-12	0244	Sat	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	3-12	0244	Sat	V M8JF (x3) DE RIS9 (x2) //6777	CW	(JPL)
M89	6093	3-12	0245	Sat	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	3-12	0245	Sat	2QLC i.p. 5ANA D7DT NAD3 TNU3 ... III = 454T 7T36 354D 4T53 ADTU ... //6093	CW	(JPL)
M89	9044	3-12	0308	Sat	PTII DE KSGK K (see N&O 231)	CW	(JPL)
M89	4003	3-12	1209	Sat	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	3-12	1209	Sat	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	4672	3-12	1211	Sat	i.p. 1203 2000 RMKS CQ = 744A AU74 D45A ... AR III Q... K SK GB AS AZXB K SK GB BF5Y K SK GB QAW1 K SK GB	CW	(JPL)
M89	3777	3-12	1219	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	3-12	1219	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	3-12	1220	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	3-12	1220	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	3-12	1230	Sat	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	5656	3-12	1230	Sat	i.p. 7AN4 N5UD 7TAN T3N5 U77A ... AR K. C K. R LL K / OK	CW	(JPL)
M89	3642	3-12	1247	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	3-12	1247	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3642	3-12	1900	Sat	i.p. AUTA UT7A D33T DN5T T774 6547 ... AR QSL ? HR WK NR 22 V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	3-12	1900	Sat	3A7D i.p. AUTA UT7A D33T DN5T T774 6547 ... AR QSL ? HR WK NR 22 //3642	CW	(JPL)
M89	4131	3-12	1914	Sat	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	5566	3-12	1915	Sat	i.p. 6N67 TA73 DAU4 A5U7 III = AU.6 A57 D4NT ... AR	CW	(JPL)
M89	4720	3-12	1930	Sat	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4860	4-12	1420	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	4-12	1420	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3777	4-12	1424	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	4-12	1424	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4003	4-12	1426	Sun	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	4-12	1426	Sun	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	7602	4-12	1428	Sun	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4720	4-12	1730	Sun	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	4-12	1736	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	4-12	1736	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	5555	4-12	1739	Sun	o.p. VV VXL1 DE XIW2 K (see N&O 231)	CW	(JPL)
M89	6840	5-12	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	5-12	0920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6093	5-12	0922	Mon	V NG3Y (X3) DE 2QLC (x2) //10414 Note: Although both 6093	CW	(JPL)

					and 10414 in traffic, messages ended at different time.		
M89	10414	5-12	0922	Mon	V NG3Y (X3) DE 2QLC (x2) //6093 Note: Although both 6093 and 10414 in traffic, messages ended at different time.	CW	(JPL)
M89	10180	5-12	0941	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	5-12	0943	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	5-12	0943	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	5-12	2103	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	5-12	2104	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	5-12	2104	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4003	5-12	2106	Mon	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	5-12	2106	Mon	V NG3Y (X3) DE 2QLC (x2) //4993	CW	(JPL)
M89	3777	6-12	1225	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	6-12	1225	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4003	6-12	1234	Tue	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	6-12	1234	Tue	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3777	6-12	1641	Tue	RIS9 i.p. 7D66 4AA7 T643 7AU5 ... AR CQ 06/9202 2713 6508 MSG ... //4532	CW	(JPL)
M89	4532	6-12	1641	Tue	RIS9 i.p. 7D66 4AA7 T643 7AU5 ... AR CQ 06/9202 2713 6508 MSG ... //3777	CW	(JPL)
M89	3642	6-12	1653	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	6-12	1653	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4003	6-12	1654	Tue	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	6-12	1654	Tue	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	5395	6-12	1706	Tue	i.p. AUA4 DN35 AU6U 6TT5 5634 T5T5 ... AR K. R RPT 1P 77W TO 78W BT .4UA T. TT.. K	CW	(JPL)
M89	5801	7-12	1051	Wed	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	7-12	1051	Wed	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	10414	7-12	1051	Wed	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	3777	7-12	1054	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	7-12	1054	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	5477	7-12	1057	Wed	i.p. HR F GA K. HR F GA F GA FF NR 2613/EX 19.1 RMKS CQ =	CW	(JPL)
M89	3518	7-12	1120	Wed	i.p. 7A56 3477 N.TT UD44 ...	CW	(JPL)
M89	4003	7-12	1124	Wed	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	7-12	1124	Wed	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	4593	7-12	1127	Wed	i.p. 3TAU DT64 .A54 TU7D AD54 76N3	CW	(JPL)
M89	3642	7-12	1658	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3699	7-12	1701	Wed	i.p. N7AU D67U 5773 UNAU 7TDT UAAU 44A4 K. R R RPT 40W = UT6T K. R RPT 41W = AD63 AD63 K. R GA	CW	(JPL)
M89	3394	7-12	1705	Wed	i.p. 3N4 TT7A 6D67 3N5U A3UU NUAT TTTU ... AR K R R OK RR GA	CW	(JPL)
M89	4860	7-12	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	7-12	1720	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	6777	8-12	0137	Thu	V M8JF (x3) DE RIS9 (x2) //6792//8060	CW	(JPL)
M89	6792	8-12	0137	Thu	V M8JF (x3) DE RIS9 (x2) //6777//8060	CW	(JPL)
M89	8060	8-12	0137	Thu	V M8JF (x3) DE RIS9 (x2) //6777 and 6792	CW	(JPL)
M89	6718	8-12	0141	Thu	i.p. U6D5 7ANT ...	CW	(JPL)
M89	6441	8-12	0149	Thu	i.p. CK 29 24 1208 0915 RMKS 6471 TO 6515 K (see N&O 231)	CW	(JPL)
M89	6093	8-12	0158	Thu	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	8-12	0158	Thu	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	10180	8-12	0159	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	8756	8-12	0202	Thu	i.p. D74T 5757 36ND 7T64 676U ...	CW	(JPL)
M89	8179	8-12	0207	Thu	i.p. 3575 A43A A3N5 ...	CW	(JPL)
M89	8051	8-12	0210	Thu	i.p. N4N3 U7NA 63D5 6A53 3UTA 573A 356D (see N&O 231)	CW	(JPL)
M89	6093	8-12	1027	Thu	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	8-12	1027	Thu	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	5801	8-12	1029	Thu	i.p. NR 035 1830 RMKS 2906 .226 = ... 234 AR. V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	8-12	1029	Thu	i.p. NR 035 1830 RMKS 2906 .226 = ... 234 AR. V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3777	8-12	1033	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	8-12	1033	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	6093	8-12	1040	Thu	2QLC i.p. NR 032 CK 3.. 70 1208 1830 = TD76 U6NU NTDU 46A4 T4D5 ... //10414	CW	(JPL)
M89	10414	8-12	1040	Thu	2QLC i.p. NR 032 CK 3.. 70 1208 1830 = TD76 U6NU NTDU 46A4 T4D5 ... //6393	CW	(JPL)
M89	4275	8-12	1055	Thu	i.p. UD47 76U3 ANDA 7UD7 4TNU 57D3 (see N&O 231)	CW	(JPL)
M89	3777	8-12	1104	Thu	i.p. T4TA 7T65 TNA4 T3T3 TTT4 TU5T ... AR. V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	8-12	1104	Thu	i.p. T4TA 7T65 TNA4 T3T3 TTT4 TU5T ... AR. V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3372	8-12	1114	Thu	(i.p. HR 7G NR 498 CK 91 62 1208 1911 RMKS = CQ AR = T4AU 5DN7 5A47 U6TN UDA5 AU53 UDN6 5T67 475N T537 T65A ...	CW	(JPL)

M89	3744	8-12	1216	Thu	i.p. A63D NN4U UD3. 4U74 NDTD TDND ...	CW	(JPL)
M89	3030	8-12	1226	Thu	i.p. NR 498 CK 199 03 1208 2020 RMKS = 8799 TO 6386 AR K. R = 564. 3537 ...	CW	(JPL)
M89	3642	8-12	1230	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4003	8-12	1232	Thu	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	8-12	1232	Thu	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	4131	8-12	1654	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	8-12	2002	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	8-12	2002	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	8-12	2311	Thu	V M8JF (x3) DE RIS9 (x2) //4532, 6793, and 8060	CW	(JPL)
M89	4532	8-12	2311	Thu	V M8JF (x3) DE RIS9 (x2) //3777, 6793, and 8060	CW	(JPL)
M89	6793	8-12	2311	Thu	V M8JF (x3) DE RIS9 (x2) //3777//4532//8060	CW	(JPL)
M89	8060	8-12	2311	Thu	V M8JF (x3) DE RIS9 (x2) //3777//4532//6793	CW	(JPL)
M89	3777	9-12	1118	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	9-12	1118	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4003	9-12	1119	Fri	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	9-12	1119	Fri	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	5195	9-12	1119	Fri	i.p. R RPT 25W BT 34U6 AR = 34U7 AR K. R RPT 33W = N5DU AR = N5DU AR K	CW	(JPL)
M89	6840	9-12	1120	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4639	9-12	1216	Fri	i.p. 201 58 1209 1930 RMKS = 5494 TO 5364 AR K. R = R CK 201 K. R = U556 6ADN ...	CW	(JPL)
M89	4277	9-12	1224	Fri	i.p. 557A 43A4 DNDU N7TA AR K K GA K	CW	(JPL)
M89	5566	9-12	1517	Fri	i.p. UAT4 3ATD 3DTD T7NU 6A45 NDU6 ... AR	CW	(JPL)
M89	4003	9-12	1523	Fri	i.p. 43U3 375D 7A4D 7U54 III = 3UAT AR. E A NG3Y 2QLC V //4859	CW	(JPL)
M89	4859	9-12	1523	Fri	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3642	9-12	1809	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	9-12	1809	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4860	10-12	1420	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	10-12	1420	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4003	10-12	1424	Sat	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	10-12	1424	Sat	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3642	10-12	1425	Sat	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	10-12	1425	Sat	V DKG6 (x3) DE 3A7D (x2) //36422	CW	(JPL)
M89	3777	10-12	1427	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4236	10-12	1428	Sat	i.p. 5456 A5U6 D5AU 4NA7 U5D7 ... AR	CW	(JPL)
M89	4302	10-12	1437	Sat	i.p. VVV BHUB DE DE BMLK K. VVV BHUB DE DE BMLK K	CW	(JPL)
M89	4003	10-12	1447	Sat	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	10-12	1447	Sat	i.p. 5747 75U4 6574 T3A4 6N4N ... E E A NG3Y 2QLC V //4003	CW	(JPL)
M89	4302	10-12	1828	Sat	i.p. A6UT 4D6U 3N6A 3UN4 45NA U4T7 ... AR K. VVV BHUB DE BMLK K	CW	(JPL)
M89	4003	10-12	2237	Sat	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	10-12	2237	Sat	i.p. DT75 AUTN T646 TD7N ... E E A NG3Y 2QLC V //4003	CW	(JPL)
M89	8060	11-12	0609	Sun	M8JF de RIS9 V	CW	(F5JBR-KOR)
M89	10414	11-12	0730	Sun	NG3Y de 2QLC V) 11 dÚc. 16 (F5JBR)	CW	(F5JBR-KOR)
M89	4532	11-12	0846	Sun	M8JF de RIS9 V) 11 dÚc. 16 (F5JBR)	CW	(F5JBR-KOR)
M89	3777	11-12	0901	Sun	M8JF de RIS9 V) 11 dÚc. 16 (F5JBR)	CW	(F5JBR-KOR)
M89	6093	11-12	1119	Sun	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	11-12	1119	Sun	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	3777	11-12	1122	Sun	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	11-12	1122	Sun	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3757	11-12	1125	Sun	i.p. QSA M1 QSA 1 QSY 2999 ... QSL QSL 1936 1936 K. NIL SK	CW	(JPL)
M89	3642	11-12	1210	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	11-12	1210	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4365	11-12	1223	Sun	i.p. DA7N AR K. R RPT 84W = 6TA3 AR K	CW	(JPL)
M89	4003	11-12	1307	Sun	NG3Y de 2QLC V) 11 dÚc. 16 (F5JBR)	CW	(F5JBR-KOR)
M89	4860	11-12	1420	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	11-12	1420	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4859	11-12	1422	Sun	NG3Y de 2QLC V) //4003 11 dÚc. 16 (F5JBR)	CW	(F5JBR-KOR)
M89	4003	11-12	1423	Sun	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	11-12	1423	Sun	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3642	11-12	1445	Sun	DKG6 de 3A7D V) 11 dÚc. 16 (F5JBR)	CW	(F5JBR-KOR)
M89	4003	11-12	2237	Sun	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	11-12	2237	Sun	i.p. T5U3 AU53 NA6D A4D6 ... III = 5NU7 57DT 3476 5TAD ... E A NG3Y 2QLC V //4003	CW	(JPL)
M89	6093	11-12	2300	Sun	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	11-12	2300	Sun	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	3777	11-12	2303	Sun	V M8JF (x3) DE RIS9 (x2) //4532 and 6793	CW	(JPL)
M89	4532	11-12	2303	Sun	V M8JF (x3) DE RIS9 (x2) //3777 and 6793	CW	(JPL)
M89	6793	11-12	2303	Sun	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	3642	11-12	2305	Sun	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)

M89	7602	11-12	2305	Sun	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4860	11-12	2320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	11-12	2320	Sun	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	9044	12-12	0630	Mon	D4ZX WEFC RLTD ETXJ ZUQR HESB NR1622 CK 61 24 12 12 1430 RMKS CQS =	CW	(F5JBR-KOR)
M89	6793	12-12	0645	Mon	M8JF de RIS9 V	CW	(F5JBR-KOR)
M89	4392	12-12	0843	Mon	i.p. 5DN5 NNTA TN44 45D4 AT3T ... III K	CW	(JPL)
M89	6093	12-12	0858	Mon	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	12-12	0858	Mon	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	10180	12-12	0859	Mon	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	12-12	0946	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	12-12	0946	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4411	12-12	1248	Mon	III R AS 5 K = R 11?? 11P = 443N DDUD D57U AUND 6A5N N7ND (Cont'd) III K R 13P =	CW	(JPL)
M89	3642	12-12	1445	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	4003	12-12	1446	Mon	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	12-12	1446	Mon	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	4860	12-12	1620	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	12-12	1620	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4859	12-12	1624	Mon	i.p. 6NDA 5DU4 U34T 7DN3 ... III D6UA A E A NG3Y 2QLC V //4003	CW	(JPL)
M89	4003	12-12	1628	Mon	i.p. A53U AA53 NT67 UDNU III = 3UAT E A E A NG3Y 2QLC V //4859	CW	(JPL)
M89	3642	12-12	1651	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	4131	12-12	1656	Mon	V JKDJ (x3) DE SLBC (x2) (Cont'd	CW	(JPL)
M89	3777	13-12	0842	Tue	V M8JF (x3) DE RIS9 (x2) //4532, 6793	CW	(JPL)
M89	4532	13-12	0842	Tue	V M8JF (x3) DE RIS9 (x2) //3777, 6793	CW	(JPL)
M89	6793	13-12	0842	Tue	V M8JF (x3) DE RIS9 (x2) //3777 and 4532	CW	(JPL)
M89	6093	13-12	0846	Tue	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	13-12	0846	Tue	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	10180	13-12	0848	Tue	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	8045	13-12	0927	Tue	i.p. CK 61 24 0212? 23E 1453 K O RMSK T ... NR 0452 CK 62 24 1213 1500 RMKS SSX73 III SX RMKS ...	CW	(JPL)
M89	3777	13-12	1346	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	13-12	1346	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4003	13-12	1348	Tue	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	13-12	1348	Tue	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	5555	13-12	1352	Tue	i.p. NR ... CK 121 81 1213 .1. RMKS NW 190 TO 0100 NR 0090 CK 121 81 1213 ...	CW	(JPL)
M89	4003	13-12	2243	Tue	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	13-12	2243	Tue	i.p. A43D 6547 67AU UD64 ... III = D6UA AR E A NG3Y 2QLC V //4003	CW	(JPL)
M89	4860	13-12	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	13-12	2320	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4567	15-12	0937	Thu	i.p. 465N 576T 6D7A DTNA NATU TUA3	CW	(JPL)
M89	4263	15-12	1213	Thu	i.p. 56NN 4A7N 5375 6TDU U33N	CW	(JPL)
M89	4275	15-12	1216	Thu	i.p. DT3U 3546 U6U3 AT66	CW	(JPL)
M89	3777	15-12	1412	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	15-12	1412	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	15-12	1413	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	15-12	1413	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4532	15-12	1440	Thu	UGT COMM BT 025/6972/6232/12/15/2310/271/A AR V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4859	15-12	1512	Thu	i.p. UA45 ND46 7DNT ... III = ND5D U6A4	CW	(JPL)
M89	6093	15-12	2327	Thu	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	6793	15-12	2330	Thu	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	15-12	2330	Thu	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6093	16-12	1052	Fri	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	3777	16-12	1107	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	16-12	1107	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3333	16-12	1434	Fri	i.p. RMKS 3593 TO 3553 = N344 AU3A 457A	CW	(JPL)
M89	4003	16-12	1438	Fri	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	16-12	1438	Fri	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3642	16-12	1440	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	3777	16-12	1444	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	16-12	1444	Fri	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3531	16-12	1446	Fri	i.p. 5564 4NT7 U6D5 T5NA A33T 5667 III = 5354 5D76 5T46 ... AR K. R RPT K. R GA K	CW	(JPL)
M89	4344	16-12	1503	Fri	i.p. 3U47 36T7 AN6A U6UT ... AR K. R R OK K. R HR NR 108 K. R SK	CW	(JPL)
M89	3726	16-12	1511	Fri	i.p. AR HR WK NR 210 K. R SK	CW	(JPL)
M89	3642	16-12	1819	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)

M89	7602	16-12	1819	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4860	16-12	1820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	16-12	1820	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4131	16-12	1823	Fri	V JKDJ (x3) DE SLBC (x2) (Cont'd	CW	(JPL)
M89	4720	16-12	1830	Fri	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4003	19-12	1919	Mon	V NG3Y (x3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	19-12	1919	Mon	V NG3Y (x3) DE 2QLC (x2) //4003	CW	(JPL)
M89	4860	19-12	1920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	19-12	1920	Mon	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3642	19-12	1922	Mon	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	19-12	1922	Mon	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	19-12	1924	Mon	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	19-12	1924	Mon	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	8056	20-12	0339	Tue	i.p. F NR 059/EX TIME 1147 = LDOE/UR AR SK SK SK	CW	(JPL)
M89	8083	20-12	0339	Tue	i.p. 3AAN TUNT TTAN 4U4N 7AAU 657U 654T 4N7A	CW	(JPL)
M89	8043	20-12	0342	Tue	i.p. NR 1896 CK 61 24 1220 1100 RMKS WF65 TO WF68 K	CW	(JPL)
M89	6793	20-12	0359	Tue	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	20-12	0359	Tue	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6093	20-12	0407	Tue	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	20-12	0407	Tue	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	5400	20-12	0413	Tue	i.p. 463U UAU7 5U3T 7A4N 54UN	CW	(JPL)
M89	5358	20-12	0414	Tue	i.p. NUA4 5NAU NNDU U66T AA3U 4A46	CW	(JPL)
M89	4140	20-12	0420	Tue	i.p. /OJP2 AR. QSY 80 EEEE QSY 82 QSY 82 EEEE QSY 82 VVV	CW	(JPL)
M89	4860	20-12	1220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	20-12	1220	Tue	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4003	20-12	1221	Tue	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	20-12	1221	Tue	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3642	20-12	1224	Tue	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	20-12	1224	Tue	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	20-12	1230	Tue	V M8JF (x3) DE RIS9 (x2) //4530	CW	(JPL)
M89	4530	20-12	1230	Tue	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3333	20-12	1236	Tue	i.p. F NR 062/EX TIME 2027 RMKS = 2999 131 TO 2999 134 AR =	CW	(JPL)
M89	3777	20-12	1527	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	20-12	1527	Tue	i.p. TNT3 T4TA T346 ADAA T3T3 TT5N ... AR. V M8JF DE RIS9 //3777	CW	(JPL)
M89	3777	20-12	2044	Tue	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	20-12	2044	Tue	RIS9 i.p. TND4 73UU U667 N436 N7TN ... AR CQ 06 /2742 6680 6902 //3777	CW	(JPL)
M89	8045	21-12	0343	Wed	i.p. T756 TND5 A6U4 N3TU T635 ... AR K. HR QSL 1146 K	CW	(JPL)
M89	6793	21-12	0402	Wed	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	21-12	0402	Wed	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6093	21-12	0403	Wed	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	21-12	0403	Wed	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	10180	21-12	0405	Wed	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4860	21-12	1220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	21-12	1220	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	3777	21-12	1223	Wed	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	21-12	1223	Wed	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4003	21-12	1226	Wed	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	21-12	1226	Wed	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3642	21-12	1228	Wed	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	21-12	1228	Wed	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4860	21-12	1520	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	21-12	1520	Wed	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4131	21-12	1702	Wed	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	6793	22-12	0033	Thu	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	22-12	0033	Thu	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	8051	22-12	0034	Thu	i.p. NR 1960/EX 0833 = E9D3/C100 AR NR 1960/EX 0833 = E9D3/D100 AR	CW	(JPL)
M89	8092	22-12	0037	Thu	i.p. /EX 0836 = X461/JF3 AR QSY 83 QSY 83 VVV	CW	(JPL)
M89	8148	22-12	0039	Thu	i.p. FF NR 196/EX 0839 = T3Y6/HSA4 AR NR 1962/EX 0839 = T3Y6/HSA4 AR	CW	(JPL)
M89	8185	22-12	0044	Thu	i.p. /EX 0842 = P8L6/D9M3 AR QSY SW QSY SW VVV	CW	(JPL)
M89	8060	22-12	0058	Thu	V M8JF (x3) DE RIS9 (x2) UGT COMM BT 025/6932/6232/12/22/0920/271/A AR	CW	(JPL)
M89	8060	22-12	0106	Thu	V M8JF (x3) DE RIS9 (x2) UGT COMM BT 146/6932/4/8848/8 AR	CW	(JPL)
M89	8075	22-12	0118	Thu	i.p. VV TYLQ QSA 3 K (see N&O 231)	CW	(JPL)
M89	8075	22-12	0331	Thu	i.p. 3UTT 36U7 4AT5 U73D T4A3 (see N&O 231)	CW	(JPL)
M89	8082	22-12	0332	Thu	i.p. 657U 4U5U 5367 N3NA 7AUA U4U5	CW	(JPL)
M89	8083	22-12	0348	Thu	i.p. VV HCYK (see N&O 231)	CW	(JPL)

M89	3777	22-12	0840	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	22-12	0840	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	6793	22-12	0840	Thu	V M8JF (x3) DE RIS9 (x2) //4532 and 3777	CW	(JPL)
M89	6093	22-12	0842	Thu	i.p. III = D457 47A3 46U7 NU7A ... III = AUAD A NGY E A NQ E NG3Y 2QPC E A NG3Y 2QLC V //10414	CW	(JPL)
M89	6268	22-12	0858	Thu	i.p. 5T74 UDA5 ANT7 3DAN 5T7N ... AR. VV J7ZL J7ZL DE I2GH I2GH K (see N&O 231)	CW	(JPL)
M89	5993	22-12	0921	Thu	i.p. 7UA3 3U4T 4NT3 AUN3 753A 4AN5 ... AR	CW	(JPL)
M89	5879	22-12	0924	Thu	i.p. 5A5T 7T5D DUA7 D463 TD7A ... AR R VA GB	CW	(JPL)
M89	5374	22-12	0928	Thu	i.p. 7ANT AUDT 3N6D NT43 53AD 356T 43T6 ... AR QSL ? K. R U G EEEE R U MSG GA K	CW	(JPL)
M89	5158	22-12	0936	Thu	i.p. V VV UA7D UA7D DE 9JAV 9JAV 9JAV E NR 354/CCK CK 199 61 1222 1300 RMKS =	CW	(JPL)
M89	5316	22-12	0950	Thu	i.p. 365N 537D A64T AUTD 4T6D 4U7D ... AR QSL ? K	CW	(JPL)
M89	5081	22-12	0957	Thu	i.p. NR 2157 CK 120 60 1222 1750 RMKS 3173535 TO 3173636 =	CW	(JPL)
M89	4003	22-12	1320	Thu	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	22-12	1320	Thu	i.p. N356 d5a3 63ND N465 7U37 III TU3A E E A NG3Y 2QLC V //4003	CW	(JPL)
M89	3401	22-12	1342	Thu	i.p. T3N5 4TNA TD3U NDU A ... III = U3TN 7N35 U6A4 ... AR QSL ?	CW	(JPL)
M89	3383	22-12	1352	Thu	i.p. VV TZG3 DE KGPJ K. 7G NR 003/CCK CK 19 11122 2 2.. RMKS 1298 TO 1875 K	CW	(JPL)
M89	3203	22-12	1405	Thu	i.p. RPT 15W K. HR MSG GA K. MSG NR 01 CK 111 29 1222 2130 RMKS 5568 TO 9808 AR K	CW	(JPL)
M89	4131	22-12	1558	Thu	V JKDJ (x3) DE SLBC (x2)	CW	(JPL)
M89	3642	22-12	1559	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	22-12	1559	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3777	22-12	2210	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	22-12	2210	Thu	CQ 06 /2772 6982 MSG NR 1232 CK 97 40 1223 0610 RMKS 6232 TO 2772 6982 = //3777	CW	(JPL)
M89	6793	24-12	0023	Sat	V M8JF (x3) DE RIS9 (x2) //8060	CW	(JPL)
M89	8060	24-12	0023	Sat	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	10414	24-12	0025	Sat	V NG3Y (X3) DE 2QLC (x2)	CW	(JPL)
M89	10414	24-12	0842	Sat	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	4003	24-12	1110	Sat	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	24-12	1110	Sat	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	5801	24-12	1111	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	24-12	1111	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	3777	24-12	1128	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	24-12	1128	Sat	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	3642	24-12	1353	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	6093	29-12	0838	Thu	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	29-12	0838	Thu	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	6840	29-12	0920	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW	(JPL)
M89	10640	29-12	0920	Thu	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	10180	29-12	0925	Thu	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	8350	29-12	0930	Thu	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3777	29-12	1219	Thu	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	29-12	1219	Thu	V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4003	29-12	1220	Thu	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	29-12	1220	Thu	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3342	29-12	1233	Thu	i.p. NR 057 R RPT 023 MSG = A36T 65TD 7NA5 435U 76AT AUNA U6DN 3ND5 ... AR K. R R HR NIL SK GB	CW	(JPL)
M89	3642	29-12	1256	Thu	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	29-12	1256	Thu	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3300	29-12	1455	Thu	i.p. 5NU6 7775 3UUN T3A4 5645 III = 3	CW	(JPL)
M89	4131	29-12	1617	Thu	i.p. TDT3 65D5 6... AU7T AR QSL ? HW WK NR 0.24 K	CW	(JPL)
M89	4131	29-12	1628	Thu	V JKDJ (x3) DE SLBC (x2) (Cont'd)	CW	(JPL)
M89	3777	30-12	0844	Fri	V M8JF (x3) DE RIS9 (x2) //4532, 6793, and 8060	CW	(JPL)
M89	4532	30-12	0844	Fri	V M8JF (x3) DE RIS9 (x2) //3777, 6793, and 8060	CW	(JPL)
M89	6793	30-12	0844	Fri	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 8060	CW	(JPL)
M89	8060	30-12	0844	Fri	V M8JF (x3) DE RIS9 (x2) //3777, 4532, and 6793	CW	(JPL)
M89	6093	30-12	0851	Fri	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	30-12	0851	Fri	i.p. 5TD6 54AT TT5N TTT3 DTDT A6U3 ... III = 3565 AR QLC V V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	3642	30-12	1413	Fri	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4003	30-12	1414	Fri	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	30-12	1414	Fri	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	3777	30-12	1416	Fri	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	4532	30-12	1416	Fri	i.p. /2250/232/A/23/74 AR. V M8JF (x3) DE RIS9 (x2) //3777	CW	(JPL)
M89	4860	30-12	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	30-12	1420	Fri	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)

M89	3642	30-12	1448	Fri	V DKG6 (x3) DE 3A7D (x2) //7602	CW	(JPL)
M89	7602	30-12	1448	Fri	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	4532	30-12	1754	Fri	V M8JF M8JF M8JF DE RIS9 RIS9	CW	(AB-NZL)
M89	10180	31-12	0232	Sat	V DKG6 (x3) DE 3A7D (x2)	CW	(JPL)
M89	4532	31-12	0856	Sat	V M8JF (x3) DE RIS9 (x2) //6793	CW	(JPL)
M89	6793	31-12	0856	Sat	V M8JF (x3) DE RIS9 (x2) //4532	CW	(JPL)
M89	6093	31-12	0859	Sat	V NG3Y (X3) DE 2QLC (x2) //10414	CW	(JPL)
M89	10414	31-12	0859	Sat	V NG3Y (X3) DE 2QLC (x2) //6093	CW	(JPL)
M89	4720	31-12	1130	Sat	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	4003	31-12	1137	Sat	V NG3Y (X3) DE 2QLC (x2) //4859	CW	(JPL)
M89	4859	31-12	1137	Sat	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	5801	31-12	1137	Sat	V DKG6 (x3) DE 3A7D (x2) //10180	CW	(JPL)
M89	10180	31-12	1137	Sat	V DKG6 (x3) DE 3A7D (x2) //5801	CW	(JPL)
M89	4003	31-12	1508	Sat	i.p. 7AT5 35D7 N3U5 ... III = .35T AR ... III = U35T AR = V NG3Y DE 2QLC //4859	CW	(JPL)
M89	4859	31-12	1508	Sat	V NG3Y (X3) DE 2QLC (x2) //4003	CW	(JPL)
M89	4860	31-12	1520	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW	(JPL)
M89	6840	31-12	1520	Sat	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW	(JPL)
M89	4720	31-12	1530	Sat	V WNF (x3) DE FXM (x2) QSA ? QSV K	CW	(JPL)
M89	3642	31-12	1538	Sat	V DKG6 (x3) DE 3A7D (x2) //7802	CW	(JPL)
M89	7802	31-12	1538	Sat	V DKG6 (x3) DE 3A7D (x2) //3642	CW	(JPL)
M89	3642	31-12	1940	Sat	DKG6 de 3A7D V //7802 kHz	CW	(F5JBR)
M89	7802	31-12	1940	Sat	DKG6 de 3A7D V //3642 kHz	CW	(F5JBR)
M89?	4011	11-12	1303	Sun	8D1 sends msg NR 056 CK 56 ...12 11 2101 RMKS 4292 TO 4202 =	CW	(F5JBR-KOR)
M89?	3791.5	11-12	1438	Sun	001 wkg 345 089 (comms checks and msg NR347 à RKMS)	CW	(F5JBR-KOR)
M90	4133	5-12	0744	Mon	UNY7 wkg YTYL, DTXA, RHW5: MLLR de UNY7 3 30 6 1017 749 = MLLR = 30LGs = UNY7 k. XXX MYJAVA 729 - ZILINA 951	CW	(F5JBR)
M95	4242	2-12	0845	Fri	i.p. MSG GA CY NR 1001 CK 100 3. R 22217.. RMKS 8936784 RMKS 892 EEE RMKS 89.6 . 4 TO 893... =	CW	(JPL-KOR)
M95	4283	2-12	0915	Fri	V BNEC (x3) DE XSV70 (x2) HR MSG TOYR PSE CY NR 1097 CK 103 35 1202 1616 5A7 UT3 TTU 3U6 ... //7553 kHz	CW	(JPL-KOR)
M95	7553	2-12	0915	Fri	V BNEC (x3) DE XSV70 (x2) HR MSG TOYR PSE CY NR 1097 CK 103 35 1202 1616 5A7 UT3 TTU 3U6 ... //4283 kHz	CW	(JPL-KOR)
M95	4243	2-12	1147	Fri	HR 7G TOYR PSE CY NR 066 CK 17 35 1202 1507 = 5TD UTT TTU 3U6 3A4 356 4AA U7U N4A 445 ... //9054 kHz	CW	(JPL-KOR)
M95	9054	2-12	1147	Fri	HR 7G TOYR PSE CY NR 066 CK 17 35 1202 1507 = 5TD UTT TTU 3U6 3A4 356 4AA U7U N4A 445 ... //4243 kHz	CW	(JPL-KOR)
M95	9054	3-12	0300	Sat	i.p. N34 446 4D6 3D4 N3D 3DU AR MSG AGN NR 009 CK 47 35 1203 1032 = UT5 TT3 3U5 3AN TTA TTU TT3 ...	CW	(JPL-KOR)
M95	4283	5-12	0914	Mon	V BNEC (x3) DE XSV70 (x2) HR MSG TO YR PSE CY NR .4 CK .. 49 1205 1700 ... //7553 kHz	CW	(JPL-HK)
M95	7553	5-12	0914	Mon	V BNEC (x3) DE XSV70 (x2) HR MSG TO YR PSE CY NR .4 CK .. 49 1205 1700 ... //4283 kHz	CW	(JPL-HK)
M95	4364	6-12	1159	Tue	i.p. NN3 44D 4D6 4DT 4D3 ... AR //8073 kHz	CW	(JPL-NZL)
M95	8073	6-12	1159	Tue	i.p. NN3 44D 4D6 4DT 4D3 ... AR //4364 kHz	CW	(JPL-NZL)
M95	4243	6-12	1208	Tue	i.p. 354 N3D 353 4TA 447 7A4 3DE ... AR //9054 kHz	CW	(JPL-NZL)
M95	9054	6-12	1208	Tue	i.p. 354 N3D 353 4TA 447 7A4 3DE ... AR //4243 kHz	CW	(JPL-NZL)
M95	4364	7-12	1139	Wed	V BNGC (x3) DE XSV85 (x2) HR 7GS GA PSE CY NR 1113 CK 36 35 1207 1528 = TAU N5U TT7 N54 7TT TT7 746 7T5 7TT ... //8073 kHz	CW	(JPL-NZL)
M95	8073	7-12	1139	Wed	V BNGC (x3) DE XSV85 (x2) HR 7GS GA PSE CY NR 1113 CK 36 35 1207 1528 = TAU N5U TT7 N54 7TT TT7 746 7T5 7TT ... //4364 kHz	CW	(JPL-NZL)
M95	4243	7-12	1148	Wed	V A = HR MSG TOYR PSE CY NR 076 CK 34 35 1207 1524 = 5TD UTT TT7 3U6 7TA N44 3A4 35U N3D 353 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	7-12	1148	Wed	V A = HR MSG TOYR PSE CY NR 076 CK 34 35 1207 1524 = 5TD UTT TT7 3U6 7TA N44 3A4 35U N3D 353 ... //4243 kHz	CW	(JPL-NZL)
M95	4364	8-12	1138	Thu	V BNGC (x3) DE XSV85 (x2) 4DT 4D5 TUA 773 353 AR //8073 kHz	CW	(JPL-HK)
M95	8073	8-12	1138	Thu	V BNGC (x3) DE XSV85 (x2) 4DT 4D5 TUA 773 353 AR //4364 kHz	CW	(JPL-HK)
M95	4243	8-12	1156	Thu	i.p. 773 35A U4T 353 4TA 447 77A ... AR //9054 kHz	CW	(JPL-HK)
M95	9054	8-12	1156	Thu	i.p. 773 35A U4T 353 4TA 447 77A ... AR //4243 kHz	CW	(JPL-HK)
M95	8073	9-12	1144	Fri	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 1121 CK 258 35 1209 1540 = TTN 3U6 3AN 3U7 TAU 773 ...	CW	(JPL-J)
M95	4243	9-12	1152	Fri	A HR MSG GA NR 031 CK 15 35 A209 A..N UT5 TTN 3U6 3A4 TTA TTU TT3 773 35U U4T ... //9054 kHz	CW	(JPL-J)
M95	9054	9-12	1152	Fri	A HR MSG GA NR 031 CK 15 35 A209 A..N UT5 TTN 3U6 3A4 TTA TTU TT3 773 35U U4T ... //4243 kHz	CW	(JPL-J)
M95	4243	10-12	2230	Sat	TOYR PSE CY NR 035 CK 19 35 1211 0622 = UT5 TAA 3U4 3A4 TTA TTU TT3 773 356 4AA ... //9054 kHz	CW	(JPL-KOR)
M95	9054	10-12	2230	Sat	TOYR PSE CY NR 035 CK 19 35 1211 0622 = UT5 TAA 3U4 3A4	CW	(JPL-KOR)

					TTA TTU TT3 773 356 4AA ... //4243 kHz		
M95	4243	10-12	2347	Sat	V HR 7G TOYR PSE CY NR 035 CK 19 35 1211 0622 = UT5 TAA 3U4 3A4 TTA TTU TT3 773 356 4AA ... //9054 kHz	CW	(JPL-KOR)
M95	9054	10-12	2347	Sat	V HR 7G TOYR PSE CY NR 035 CK 19 35 1211 0622 = UT5 TAA 3U4 3A4 TTA TTU TT3 773 356 4AA ... //4243 kHz	CW	(JPL-KOR)
M95	4243	11-12	0853	Sun	i.p. NR 084 CK 22 35 12 11 1516 =	CW	(F5JBR-KOR)
M95	4243	11-12	1148	Sun	VV HR MSG TOYR PSE CY NR 084 CK 22 35 1211 1516 = 5TD UTT TAA 3U6 3A4 35U N3D 353 365 4TN ... //9054 kHz	CW	(JPL-J)
M95	9054	11-12	1148	Sun	VV HR MSG TOYR PSE CY NR 084 CK 22 35 1211 1516 = 5TD UTT TAA 3U6 3A4 35U N3D 353 365 4TN ... //4243 kHz	CW	(JPL-J)
M95	4243	11-12	2348	Sun	VV HR 7G TOYR PSE CY NR 085 CK 29 35 1212 0619 = 5TD UTT TAU 3U4 3A4 353 N3D 354 365 4TA ... //9054 kHz	CW	(JPL-J)
M95	9054	11-12	2348	Sun	VV HR 7G TOYR PSE CY NR 085 CK 29 35 1212 0619 = 5TD UTT TAU 3U4 3A4 353 N3D 354 365 4TA ... //4243 kHz	CW	(JPL-J)
M95	4243	12-12	0001	Mon	i.p. A HR 7G GA NR 23 CK 93 35 1212 0720 = UTU TAU 3U4 3A4 7TU 7TA 7T7 73U 7UT TTU ... //9054 kHz	CW	(JPL-KOR)
M95	9054	12-12	0001	Mon	i.p. A HR 7G GA NR 23 CK 93 35 1212 0720 = UTU TAU 3U4 3A4 7TU 7TA 7T7 73U 7UT TTU ... //4243 kHz	CW	(JPL-KOR)
M95	7553	12-12	0915	Mon	V BNEC (x3) DE XSV70 (x2) HR 7G GA PSE CY NR 078 CK 29 49 1212 1700 //9153 kHz	CW	(JPL-KOR)
M95	9153	12-12	0915	Mon	V BNEC (x3) DE XSV70 (x2) HR 7G GA PSE CY NR 078 CK 29 49 1212 1700 //7553 kHz	CW	(JPL-KOR)
M95	4243	12-12	0935	Mon	i.p. 353 4TA 44D 3UN 35A U4T AR //9054 kHz	CW	(JPL-KOR)
M95	9054	12-12	0935	Mon	i.p. 353 4TA 44D 3UN 35A U4T AR //4243 kHz	CW	(JPL-KOR)
M95	4434	13-12	0945	Tue	i.p. 05 05 05 05 05 05	CW	(JPL-KOR)
M95	4283	13-12	1333	Tue	XSV70 i.p. 467 N3D 446 4D6 ... ZNN SK	CW	(JPL-J)
M95	4730	13-12	2331	Tue	i.p. VV HW8 VV JFO R UB BJJ QSA ? 3 HR WK 7.. 2 K ... 05 05 05 NNGN NNG NNG NNG 7G TO IT GA 7G BT UUUU T653 ?	CW	(JPL-KOR)
M95	4243	13-12	2348	Tue	VVV HR 7G TOYR PSE CY NR 050 CK 28 35 1214 0610 = UT5 TA4 3U4 3A4 TTA TTU TT3 773 353 U4T ... //9054 kHz	CW	(JPL-KOR)
M95	9054	13-12	2348	Tue	VVV HR 7G TOYR PSE CY NR 050 CK 28 35 1214 0610 = UT5 TA4 3U4 3A4 TTA TTU TT3 773 353 U4T ... //4243 kHz	CW	(JPL-KOR)
M95	8073	15-12	0018	Thu	i.p. A HR 7G GA NR 1144 CK 42 35 1215 0705 = ... NSU TA5 N53 TT6 N54 7TT TT6 746 7T5 ... AR	CW	(JPL-KOR)
M95	4382	15-12	0914	Thu	i.p. 35T 4UT 436 467 N3D 445 7G AGN //7553 kHz	CW	(JPL-KOR)
M95	7553	15-12	0914	Thu	i.p. 35T 4UT 436 467 N3D 445 7G AGN //4382 kHz	CW	(JPL-KOR)
M95	4397	15-12	0944	Thu	i.p. V Y8BE DE KRR. QSA 1 K. R HR KP U QSA 1 K. R K. VA. VVV VKXI K. VV 2NCG K. VVV SBGW K. 05 05 05 05 05 05	CW	(JPL-KOR)
M95	4342	15-12	0954	Thu	i.p. R R QSA ? QSA 2 QSA ? RPT QSA 2 QSA ? K R R IEC BT 1939 III IEC Q1938 AR K	CW	(JPL-KOR)
M95	4253	15-12	1148	Thu	V HR 7G TOYR PSE CY NR 092 CK 33 35 1215 1509 = 5TD UTT TA5 3U6 7TA 3A4 353 ... //9054 kHz	CW	(JPL-KOR)
M95	9054	15-12	1148	Thu	V HR 7G TOYR PSE CY NR 092 CK 33 35 1215 1509 = 5TD UTT TA5 3U6 7TA 3A4 353 ... //4243 kHz	CW	(JPL-KOR)
M95	4545	15-12	1219	Thu	i.p. R RPT MN EEEE RPT RMKS K. R QSL 2021 HR MSG GA K	CW	(JPL-J)
M95	4243	15-12	2346	Thu	VVV HR 7G TOYR PSE CY NR 059 CK 17 35 1216 0611 = UT5 TA6 3U4 3A4 TTA TTU TT3 773 35U DN7 ... //9054 kHz	CW	(JPL-KOR)
M95	9054	15-12	2346	Thu	VVV HR 7G TOYR PSE CY NR 059 CK 17 35 1216 0611 = UT5 TA6 3U4 3A4 TTA TTU TT3 773 35U DN7 ... //4243 kHz	CW	(JPL-KOR)
M95	3232	16-12	1111	Fri	i.p. NT35 536D 7DA5 A4NT D76U ... AR K	CW	(JPL-KOR)
M95	4243	16-12	1148	Fri	V HR 7G TOYR PSE CY NR 094 CK 17 35 1216 1520 = 5TD UTT TA6 3U6 3A4 35U 4AU U7U N4A 445 ... //9054 kHz	CW	(JPL-KOR)
M95	9054	16-12	1148	Fri	V HR 7G TOYR PSE CY NR 094 CK 17 35 1216 1520 = 5TD UTT TA6 3U6 3A4 35U 4AU U7U N4A 445 ... //4243 kHz	CW	(JPL-KOR)
M95	4243	20-12	1149	Tue	V HR 7G TOYR PSE CY NR 002 CK 23 35 1220 1530 = 5TD UTT TUT 3U6 3A4 353 N3D 354 35D 365 ...	CW	(JPL-KOR)
M95	5780	20-12	1542	Tue	i.p. 05 05 05	CW	(JPL-KOR)
M95	4243	21-12	1150	Wed	VV HR MSG TOYR PSE CY NR 42 CK 185 35 1221 1610 = UTU TTA 3U6 3A4 7TU ... //9054 kHz	CW	(JPL-KOR)
M95	9054	21-12	1150	Wed	VV HR MSG TOYR PSE CY NR 42 CK 185 35 1221 1610 = UTU TTA 3U6 3A4 7TU ... //4243 kHz	CW	(JPL-KOR)
M95	4364	21-12	1157	Wed	i.p N34 T33 773 353 373 4T3 AR //8073 kHz	CW	(JPL-KOR)
M95	8073	21-12	1157	Wed	i.p N34 T33 773 353 373 4T3 AR //4364 kHz	CW	(JPL-KOR)
M95	4243	21-12	1207	Wed	i.p. A HR 7G GA NR 078 CK 14 35 A221 1649 = UT5 TUA ... //9054 kHz	CW	(JPL-KOR)
M95	9054	21-12	1207	Wed	i.p. A HR 7G GA NR 078 CK 14 35 A221 1649 = UT5 TUA ... //4243 kHz	CW	(JPL-KOR)
M95	4364	24-12	1142	Sat	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 1176 CK 5U 35 1124 1558 = TAU 6UT U4N 53T ... AR //8073 kHz	CW	(JPL-NZL)
M95	8073	24-12	1142	Sat	V BNGC (x3) DE XSV85 (x2) HR MSGS GA PSE CY NR 1176 CK 5U 35 1124 1558 = TAU 6UT U4N 53T ... AR //4364 kHz	CW	(JPL-NZL)
M95	4243	24-12	1158	Sat	i.p. 373 4TN 445 3UD 3D3 4T7 336 ... AR //9054 kHz	CW	(JPL-NZL)
M95	9054	24-12	1158	Sat	i.p. 373 4TN 445 3UD 3D3 4T7 336 ... AR //4243 kHz	CW	(JPL-NZL)

M95	3187	24-12	1400	Sat	i.p. 3AN 5TA T56 ATT TD5 656 TNA TUA ... (see N&O 231)	CW	(JPL-J)
M95	4243	29-12	1202	Thu	i.p. 773 35A N3D 353 4AA ... III = U4T 35A 4AA 445 3UN 353 4TN 445 AR //9054 kHz	CW	(JPL-J)
M95	9054	29-12	1202	Thu	i.p. 773 35A N3D 353 4AA ... III = U4T 35A 4AA 445 3UN 353 4TN 445 AR //4243 kHz	CW	(JPL-J)
M95	4243	30-12	0900	Fri	VV HR 7G TOYR PSE CY NR 022 17 35 1230 1520 = 5TD UTT T3T 3U6 3A4 356 4AA U7U N4A 444 ... //9054 kHz	CW	(JPL-NZL)
M95	9054	30-12	0900	Fri	VV HR 7G TOYR PSE CY NR 022 17 35 1230 1520 = 5TD UTT T3T 3U6 3A4 356 4AA U7U N4A 444 ... //4243 kHz	CW	(JPL-NZL)
M95	7553	30-12	0911	Fri	V BNEC (x3) DE XSV70 (x2) HR 7G TOYR PSE CY NR 1181 CK 83 35 1230 1535 5A7 UT3 T3T 3U6 3A4 ... //9153 kHz	CW	(JPL-NZL)
M95	9153	30-12	0911	Fri	V BNEC (x3) DE XSV70 (x2) HR 7G TOYR PSE CY NR 1181 CK 83 35 1230 1535 5A7 UT3 T3T 3U6 3A4 ... //7553 kHz	CW	(JPL-NZL)
M95	8000	30-12	1427	Fri	i.p. 1230 2140 RMKS CQ RMKS CQ RMKS CQ R GA = UD65 7D34 N7DT U675 N65A 56NA A37U AN3A T3UD ...	CW	(JPL-NZL)
M95	9054	31-12	0247	Sat	i.p. AR 7G AGN NR 02. CK 32 35 1231 ...3. = UT5 T3A 3U5 ... AR	CW	(JPL-NZL)
M95	7553	31-12	0913	Sat	V BNEC (x3) DE XSV70 HR MSG TO YR PSE CY NR 1184 CK 84 35 1231 1545 5A7 UT3 T3A 3U6 3A4 ... //9153 kHz	CW	(JPL-NZL)
M95	9153	31-12	0913	Sat	V BNEC (x3) DE XSV70 HR MSG TO YR PSE CY NR 1184 CK 84 35 1231 1545 5A7 UT3 T3A 3U6 3A4 ... //7553 kHz	CW	(JPL-NZL)
M95	4243	31-12	0928	Sat	i.p. 35A 4A4 445 TT5 773 N44 ... //9054 kHz	CW	(JPL-J)
M95	9054	31-12	0928	Sat	i.p. 35A 4A4 445 TT5 773 N44 ... //4243 kHz	CW	(JPL-J)
M95	4364	31-12	1145	Sat	i.p. GA PSE CY NR 1217 CK 6 NR 1217 CK 221 35 1231 1539 = T3A 3U6 3AN 3U7 TAU 773 ...	CW	(JPL-NZL)
M95	4243	31-12	1148	Sat	i.p. 444 3DA TTU TT3 773 445 3DU 4D4 AR //9054 kHz	CW	(JPL-NZL)
M95	9054	31-12	1148	Sat	i.p. 444 3DA TTU TT3 773 445 3DU 4D4 AR //4243 kHz	CW	(JPL-NZL)
MX	3594	7-12	1727	Wed	Beacon F, Vladivostok	CW	(JPL-J)
MX	3335	7-12	1732	Wed	Beacon V	CW	(JPL-J)
MX	7039.2	8-12	0626	Thu	Beacon F, Vladivostok	CW	(AB-KOR)
MX	7039.3	8-12	0626	Thu	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB-KOR)
MX	7039.4	8-12	0626	Thu	Beacon M, Magadan	CW	(AB-KOR)
MX	8495.4	8-12	0626	Thu	Beacon M, Magadan	CW	(AB-KOR)
MX	10872.3	8-12	0626	Thu	Beacon K, Petropavlovsk Kamchatskiy	CW	(AB-KOR)
MX	10872.4	8-12	0626	Thu	Beacon M, Magadan	CW	(AB-KOR)
MX	5154.4	13-12	0939	Tue	Beacon M, Magadan	CW	(F5JBR)
MX	5153.8	16-12	1724	Fri	Beacon P, Kaliningrad	CW	(MPJ)
MX	5153.9	16-12	1724	Fri	Beacon S, Sevomorsk	CW	(MPJ)
MX	5154	16-12	1724	Fri	Beacon C, Moscow	CW	(MPJ)
MX	16332.2	18-12	0514	Sun	Beacon F, Vladivostok	CW	(F5JBR)
MX	5153.8	22-12	0740	Thu	Beacon P, Kaliningrad	CW	(AB-RUS)
MX	5156.8	22-12	0740	Thu	Beacon L, St Petersburg	CW	(AB-RUS)
MX	8497.8	29-12	0907	Thu	Beacon L	CW	(AB)
MX	10872	29-12	0907	Thu	Beacon C	CW	(AB)
MX	14401	29-12	0907	Thu	Beacon C	CW	(AB)
MX	15328	29-12	0907	Thu	Beacon C	CW	(AB)
MX	16332	29-12	0907	Thu	Beacon C	CW	(AB)
Q26	4283	2-12	0901	Fri	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	7553	2-12	0901	Fri	Messages //4283 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	4283	5-12	0908	Mon	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	7553	5-12	0908	Mon	Messages //4283 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	4364	7-12	1133	Wed	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	7-12	1133	Wed	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	7-12	1145	Wed	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	7-12	1145	Wed	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8048	7-12	1543	Wed	F BHZX BHZX BHZX DE VSF57 VSF57 VSF57 HR MSG TO U PSE CY 0227 20 51 1207 2100 6276---7624=6265 ...	4+4 QPSK 75/3000 LSB	(EW)
Q26	4364	8-12	1132	Thu	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	8-12	1132	Thu	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-HK)
Q26	8073	9-12	1131	Fri	Messages	4+4 QPSK 75/3000 USB	(JPL-J)
Q26	8048	9-12	1542	Fri	Messages till 1552 UTC	4+4 QPSK 75/3000 LSB	(JPL)
Q26	8048	10-12	1547	Sat	XSV57 i.p.	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	4433	10-12	2302	Sat	FHMT FHMT IK QSA ? /// WBKXY FHMT FHMT FZMIK QSA ? /// (see N&O 231)	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	4243	10-12	2342	Sat	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	9054	10-12	2342	Sat	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	4243	11-12	1142	Sun	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-J)
Q26	9054	11-12	1142	Sun	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-J)
Q26	8048	11-12	1433	Sun	F XKBR XKBR XKBR DE VSF17 VSF17 VSF17 HR MSG TO U PSE CY 0235 140 51 1211 2114 4074---7210=4041 1073 6328 8833 9578 7206 8560 ...	4+4 QPSK 75/3000 LSB	(EW)
Q26	4243	11-12	2341	Sun	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-J)

Q26	9054	11-12	2341	Sun	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-J)
Q26	7553	12-12	0902	Mon	Messages //9153 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	9153	12-12	0902	Mon	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	4243	13-12	2342	Tue	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	9054	13-12	2342	Tue	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	8048	14-12	1429	Wed	Msg from VSF17 to RDSP FRBS; four number groups.	4+4 QPSK 75/3000 LSB	(EW)
Q26	4243	15-12	1142	Thu	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	9054	15-12	1142	Thu	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	4243	15-12	2341	Thu	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	9054	15-12	2341	Thu	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	4243	16-12	1142	Fri	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	9054	16-12	1142	Fri	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	8048	16-12	1300	Fri	F HVXL HVXL HVXL DE VSF46 VSF46 VSF46 XYXYXYXYXY HR MSG TO U PSE CY 0243 51 100 1216 2158 5065---6024=5054 7915 5826 2758 9465 3814 ...	4+4 QPSK 75/3000 LSB	(EW)
Q26	4243	20-12	1143	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-KOR)
Q26	8048	20-12	1539	Tue	Messages	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7788	21-12	1035	Wed	Message from GELK DE INED four figure groups	4+4 QPSK 75/3000 LSB	(EW)
Q26	4364	24-12	1131	Sat	Messages //8073 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	8073	24-12	1131	Sat	Messages //4364 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7698	26-12	1500	Mon	Female voice callup in Chinese (This is 3196) followed by Q26: XYXYXYXYXY PSE U MSG GA XYXYXYXYXY QSL2226 BOZ NIL SK HR IS SYRW SYRW SYRW HR IS SYRW SYRW SYRW HR ZNN SK ZNN SK	4+4 QPSK 75/3000 LSB	(EW)
Q26	8048	26-12	1534	Mon	F BRHQ BRHQ BRHQ DE VSF73 VSF73 VSF73 XYXYXYXYXY HR ++ TO U PSE CY ++ ++ 0262 2328 2132---3216=2127 S5X HR ++ AGN ++ ++ (see N&O 231)	4+4 QPSK 75/3000 LSB	(EW)
Q26	7968	27-12	1410	Tue	SRYW msgs to XGRF EIZW VDZX	4+4 QPSK 75/3000 LSB	(EW)
Q26	7553	29-12	0901	Thu	Messages //9153 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9153	29-12	0901	Thu	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	30-12	0858	Fri	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	30-12	0858	Fri	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7553	30-12	0905	Fri	Messages //9153 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9153	30-12	0905	Fri	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	7553	31-12	0901	Sat	Messages //9153 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9153	31-12	0901	Sat	Messages //7553 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	4243	31-12	1141	Sat	Messages //9054 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
Q26	9054	31-12	1141	Sat	Messages //4243 kHz	4+4 QPSK 75/3000 LSB	(JPL-NZL)
S06	7812	2-12	1900	Fri	761 854 39 52709 87632 52410 ... 91202 47377 30283 854 39 00000	USB	(AB)
S06	5736	2-12	2000	Fri	761 854 39 52709 87632 52410 ... 91202 47377 30283 854 39 00000	USB	(AB)
S06	7812	3-12	1900	Sat	761 854 39 52709 87632 52410 ... 91202 47377 30283 854 39 00000	USB	(AB)
S06	4031	3-12	2000	Sat	614 614 614 00000	USB	(AB)
S06	5736	3-12	2000	Sat	761 854 39 52709 87632 52410 ... 91202 47377 30283 854 39 00000	USB	(AB)
S06	3513	3-12	2100	Sat	614 614 614 00000	USB	(AB)
S06	6440	6-12	1000	Tue	893 460 5 22469 41868 53181 70135 16554 460 5 00000	USB	(AB)
S06	5660	6-12	1010	Tue	893 460 5 22469 41868 53181 70135 16554 460 5 00000	USB	(AB)
S06	17435	8-12	0830	Thu	842 931 44 94047	USB	(HFD-HK)
S06	14375	8-12	0930	Thu	842	USB	(HFD)
S06	6440	13-12	1000	Tue	893 460 5 22469 41868 53181 70135 16554 460 5 00000	USB	(AB)
S06	5660	13-12	1010	Tue	893 460 5 22469 41868 53181 70135 16554 460 5 00000	USB	(AB)
S06	7812	16-12	1900	Fri	761 761 761 00000	USB	(AB/HFD)
S06	5736	16-12	2000	Fri	761 761 761 00000	USB	(AB/HFD)
S06	4031	17-12	2000	Sat	614 614 614 00000	USB	(AB)
S06	3505	17-12	2100	Sat	614 614 614 00000	USB	(AB)
S06	15721	20-12	0400	Tue	480 621 50 #7071	USB	(HFD)
S06	6440	20-12	1000	Tue	893 470 5 38453 48324 33885 31830 34645 470 5 00000	USB	(AB)
S06	5660	20-12	1010	Tue	893 470 5 38453 48324 33885 31830 34645 470 5 00000	USB	(AB)
S06	6440	27-12	1000	Tue	893 470 5 38453 48324 33885 31830 34645 470 5 00000	USB	(AB)
S06	9463	27-12	1000	Tue	Unscheduled message: 480 523 40 56799 23172 12538 ... 99288 71561 84703 523 40 00000	USB	(qsr711)
S06	5660	27-12	1010	Tue	893 470 5 38453 48324 33885 31830 34645 470 5 00000	USB	(AB)
S06	7353	27-12	1030	Tue	Unscheduled message: 480 523 40 56799 23172 12538 ... 99288 71561 84703 523 40 00000	USB	(qsr711)
S06	14375	30-12	0830	Fri	842 650 47 23848 09327 34595 ... 32340 96141 10844 650 47 00000	USB	(AB-AUT)
S06	17435	30-12	0830	Fri	842 650 47 23848 09327 34595 ... 32340 96141 10844 650 47 00000	USB	(AB-AUT)
S06s	5765	1-12	0900	Thu	624 805 7 33796 13577 74526 46647 79302 53516 25616 805 7 00000	USB	(AB)

S06s	6315	1-12	0910	Thu	624 805 7 33796 13577 74526 46647 79302 53516 25616 805 7 00000	USB	(AB)
S06s	8812	1-12	0930	Thu	314 926 5 68592 37637 44496 62725 40551 926 5 00000	USB	(AB)
S06s	9540	1-12	0940	Thu	314 926 5 68592 37637 44496 62725 40551 926 5 00000	USB	(AB)
S06s	11780	2-12	0930	Fri	516 437 8 46062 68672 97478 39685 30485 96632 52537 53317 437 8 00000	USB	(AB)
S06s	12570	2-12	0940	Fri	516 437 8 46062 68672 97478 39685 30485 96632 52537 53317 437 8 00000	USB	(AB)
S06s	8057	5-12	0830	Mon	371 296 5 36823 38735 38209 45624 41353 296 5 00000	USB	(AB)
S06s	8530	5-12	0840	Mon	371 296 5 36823 38735 38209 45624 41353 296 5 00000	USB	(AB)
S06s	14675	5-12	0900	Mon	872 933 6 31092 39190 46831 34173 32391 38632 933 6 00000	USB	(AB)
S06s	12830	5-12	0910	Mon	872 933 6 31092 39190 46831 34173 32391 38632 933 6 00000	USB	(AB)
S06s	8420	5-12	1300	Mon	831 925 6 38034 37823 38230 48235 38702 89102 925 6 00000	USB	(AB)
S06s	10635	5-12	1310	Mon	831 925 6 38034 37823 38230 48235 38702 89102 925 6 00000	USB	(AB)
S06s	16145	6-12	0600	Tue	438 920 5 37637 55596 62725 40551 55729 920 5 00000	USB	(AB-S)
S06s	14240	6-12	0610	Tue	438 920 5 37637 55596 62725 40551 55729 920 5 00000	USB	(AB-S)
S06s	5250	6-12	0700	Tue	374 906 5 94428 17454 24011 41584 68592 906 5 00000	USB	(AB)
S06s	6320	6-12	0715	Tue	374 906 5 94428 17454 24011 41584 68592 906 5 00000	USB	(AB)
S06s	7410	6-12	0730	Tue	427 918 5 74945 79303 44518 28216 04826 918 5 00000	AM	(AB)
S06s	11532	6-12	0740	Tue	427 918 5 74945 79303 44518 28216 04826 918 5 00000	AM	(AB)
S06s	11945	6-12	0800	Tue	352 984 6 73668 49575 35325 85342 52215 64572 984 6 00000	USB	(AB)
S06s	13195	6-12	0810	Tue	352 984 6 73668 49575 35325 85342 52215 64572 984 6 00000	USB	(AB)
S06s	5035	6-12	1100	Tue	754 208 6 88620 68069 61732 74537 57440 10597 208 6 00000	USB	(AB-POL)
S06s	5975	6-12	1110	Tue	754 208 6 88620 68069 61732 74537 57440 10597 208 6 00000	USB	(AB-POL)
S06s	6845	6-12	1500	Tue	537 201 6 52401 53919 92699 14600 74248 48754 201 6 00000	USB	(AB)
S06s	9170	6-12	1510	Tue	537 201 6 52401 53919 92699 14600 74248 48754 201 6 00000	USB	(AB)
S06s	8417	7-12	0820	Wed	471 538 6 80329 32220 43306 47702 33713 48368 538 6 00000	USB	(AB)
S06s	9262	7-12	0830	Wed	471 538 6 80329 32220 43306 47702 33713 48368 538 6 00000	USB	(AB)
S06s	11535	7-12	0830	Wed	745 930 6 37391 37446 86525 89303 33244 39054 930 6 00000	USB	(AB)
S06s	11830	7-12	0840	Wed	745 930 6 37391 37446 86525 89303 33244 39054 930 6 00000	USB	(AB)
S06s	12365	7-12	1000	Wed	729 410 5 88620 58069 61732 74536 57440 410 5 00000	USB	(AB)
S06s	14280	7-12	1010	Wed	729 410 5 88620 58069 61732 74536 57440 410 5 00000	USB	(AB)
S06s	6943	7-12	1235	Wed	i.p. 96191 21723 94964 80933 41068 16101 40866 69751 00840 63853 61023 57209 40933 904 13 00000	USB	(Edd)
S06s	6315	8-12	0910	Thu	624 805 7 33796 13577 74526 46647 79302 53516 25616 805 7 00000	USB	(AB)
S06s	8812	8-12	0930	Thu	314 926 5 68592 37637 44496 62725 40551 926 5 00000	USB	(AB)
S06s	9540	8-12	0940	Thu	314 926 5 68592 37637 44496 62725 40551 926 5 00000	USB	(AB)
S06s	12155	8-12	1200	Thu	425 961 7 38433 25858 25573 64485 55554 59477 25777 961 7 00000	USB	(AB)
S06s	10920	8-12	1210	Thu	425 961 7 38433 25858 25573 64485 55554 59477 25777 961 7 00000	USB	(AB)
S06s	11780	9-12	0930	Fri	516 437 8 46062 68672 97478 39685 30485 96632 52537 53317 437 8 00000	USB	(AB)
S06s	12570	9-12	0940	Fri	516 437 8 46062 68672 97478 39685 30485 96632 52537 53317 437 8 00000	USB	(AB)
S06s	8057	12-12	0830	Mon	371 296 5 36823 38735 38209 45624 41353 296 5 00000	USB	(AB)
S06s	8530	12-12	0840	Mon	371 296 5 36823 38735 38209 45624 41353 296 5 00000	USB	(AB)
S06s	14675	12-12	0900	Mon	872 933 6 31092 39190 46831 34173 32391 38632 933 6 00000	USB	(AB)
S06s	12830	12-12	0910	Mon	872 933 6 31092 39190 46831 34173 32391 38632 933 6 00000	USB	(AB)
S06s	8420	12-12	1300	Mon	831 925 6 38034 37823 38230 48235 38702 89102 925 6 00000	USB	(AB)
S06s	10635	12-12	1310	Mon	831 925 6 38034 37823 38230 48235 38702 89102 925 6 00000	USB	(AB)
S06s	5250	13-12	0700	Tue	374 906 5 94428 17454 24011 41584 68592 906 5 00000	USB	(AB-POL)
S06s	6320	13-12	0715	Tue	374 906 5 94428 17454 24011 41584 68592 906 5 00000	USB	(AB/POL)
S06s	7410	13-12	0730	Tue	427 918 5 74945 79303 44518 28216 04826 918 5 00000	USB	(AB)

S06s	11532	13-12	0740	Tue	427 918 5 74945 79303 44518 28216 04826 918 5 00000	USB	(AB)
S06s	11945	13-12	0800	Tue	352 984 6 73668 49575 35325 85342 52215 64572 984 6 00000	USB	(AB)
S06s	13195	13-12	0810	Tue	352 984 6 73668 49575 35325 85342 52215 64572 984 6 00000	USB	(AB)
S06s	5035	13-12	1100	Tue	754 208 6 88620 68069 61732 74537 57440 10597 208 6 00000	USB	(AB-POL)
S06s	5975	13-12	1110	Tue	754 208 6 88620 68069 61732 74537 57440 10597 208 6 00000	USB	(AB-POL)
S06s	6845	13-12	1500	Tue	537 201 6 52401 53919 92699 14600 74248 48754 201 6 00000	USB	(AB)
S06s	9170	13-12	1510	Tue	537 201 6 52401 53919 92699 14600 74248 48754 201 6 00000	USB	(AB)
S06s	5193	13-12	1815	Tue	167 601 4 17658 42872 34832 49511 601 4 00000	USB	(PW2)
S06s	8417	14-12	0820	Wed	471 538 6 80329 32220 43306 47702 33713 48368 538 6 00000	USB	(AB)
S06s	9262	14-12	0830	Wed	471 538 6 80329 32220 43306 47702 33713 48368 538 6 00000	USB	(AB)
S06s	11535	14-12	0830	Wed	745 930 6 37391 37446 86525 89303 33244 39054 930 6 00000	USB	(AB)
S06s	11830	14-12	0840	Wed	745 930 6 37391 37446 86525 89303 33244 39054 930 6 00000	USB	(AB)
S06s	12365	14-12	1000	Wed	729 410 5 88620 58069 61732 74536 57440 410 5 00000	AM	(AB)
S06s	14280	14-12	1010	Wed	729 410 5 88620 58069 61732 74536 57440 410 5 00000	AM	(AB)
S06s	6943	14-12	1230	Wed	967 967 967 00000	USB	(Edd)
S06s	5765	15-12	0900	Thu	624 539 7 09394 76011 75155 92918 97067 58604 41438 539 7 00000	USB	(AB)
S06s	6315	15-12	0910	Thu	624 539 7 09394 76011 75155 92918 97067 58604 41438 539 7 00000	USB	(AB)
S06s	12155	15-12	1200	Thu	425 913 6 38433 25858 25673 64485 55554 59477 913 6 00000	USB	(AB)
S06s	10920	15-12	1210	Thu	425 913 6 38433 25858 25673 64485 55554 59477 913 6 00000	USB	(AB)
S06s	11780	16-12	0930	Fri	516 492 7 13668 32805 37450 46501 31053 44246 31827 492 7 00000	USB	(AB)
S06s	12570	16-12	0940	Fri	Carrier till 0946z, then 516 (4x), then carrier till 0953z	USB	(AB)
S06s	8057	19-12	0830	Mon	371 269 5 92325 36615 36491 49588 41061 269 5 00000	AM	(AB)
S06s	8530	19-12	0840	Mon	371 269 5 92325 36615 36491 49588 41061 269 5 00000	AM	(AB)
S06s	14675	19-12	0900	Mon	872 590 6 41298 80740 89499 37303 88934 34302 590 6 00000	USB	(AB)
S06s	12830	19-12	0910	Mon	872 590 6 41298 80740 89499 37303 88934 34302 590 6 00000	USB	(AB)
S06s	5250	20-12	0700	Tue	374 520 6 40048 43617 30343 84217 43043 48367 520 6 00000	USB	(AB-POL)
S06s	6320	20-12	0715	Tue	374 520 6 40048 43617 30343 84217 43043 48367 520 6 00000	USB	(AB/POL)
S06s	7410	20-12	0730	Tue	427 963 5 37596 83663 89533 30950 37014 963 5 00000	USB	(AB)
S06s	11532	20-12	0740	Tue	427 963 5 37596 83663 89533 30950 37014 963 5 00000	USB	(AB)
S06s	11945	20-12	0800	Tue	352 960 7 48980 48995 40333 43389 40419 30412 48343 960 7 00000	USB	(AB)
S06s	13195	20-12	0810	Tue	352 960 7 48980 48995 40333 43389 40419 30412 48343 960 7 00000	USB	(AB)
S06s	5035	20-12	1100	Tue	754 219 6 83964 40774 45983 48882 31151 32860 219 6 00000	USB	(AB-POL)
S06s	5975	20-12	1110	Tue	754 219 6 83964 40774 45983 48882 31151 32860 219 6 00000	USB	(AB-POL)
S06s	6845	20-12	1500	Tue	537 829 6 40809 39394 35083 42571 32785 37331 829 6 00000	USB	(AB)
S06s	9170	20-12	1510	Tue	537 829 6 40809 39394 35083 42571 32785 37331 829 6 00000	USB	(AB)
S06s	8417	21-12	0820	Wed	471 860 5 98411 38633 33885 34079 32193 860 5 00000	USB	(AB)
S06s	9262	21-12	0830	Wed	471 860 5 98411 38633 33885 34079 32193 860 5 00000	USB	(AB)
S06s	11535	21-12	0830	Wed	745 291 6 44365 43025 39283 33579 47568 40573 291 6 00000	USB	(AB)
S06s	11830	21-12	0840	Wed	745 291 6 44365 43025 39283 33579 47568 40573 291 6 00000	USB	(AB)
S06s	12365	21-12	1000	Wed	729 831 5 31896 36053 33779 32814 47565 831 5 00000	AM	(AB)
S06s	14280	21-12	1010	Wed	729 831 5 31896 36053 33779 32814 47565 831 5 00000	AM	(AB)
S06s	6943	21-12	1230	Wed	967 967 967 00000	USB	(Edd)
S06s	5765	22-12	0900	Thu	624 539 7 09394 76011 75155 92918 97067 58604 41438 539 7 00000	USB	(AB)
S06s	6315	22-12	0910	Thu	624 539 7 09394 76011 75155 92918 97067 58604 41438 539 7 00000	USB	(AB)

S06s	8812	22-12	0930	Thu	314 956 7 55628 72766 40512 04454 66993 15253 27893 956 7 00000	USB	(AB)
S06s	9540	22-12	0940	Thu	314 956 7 55628 72766 40512 04454 66993 15253 27893 956 7 00000	USB	(AB)
S06s	12155	22-12	1200	Thu	425 913 6 38433 25858 25673 64485 55554 59477 913 6 00000	AM	(AB)
S06s	10920	22-12	1210	Thu	425 913 6 38433 25858 25673 64485 55554 59477 913 6 00000	AM	(AB)
S06s	11780	23-12	0930	Fri	516 (R4) stopped, restart at 0935z: 516 (R3) 492 7 13668 32805 37450 46501 31053 44246 31827 (310827) 492 7 00000	USB	(AB)
S06s	12570	23-12	0945	Fri	Late start due to the problems during the first transmission: 516 492 7 13668 32805 37450 46501 31053 44246 31827 (310827) 492 7 00000	USB	(AB)
S06s	8057	25-12	0830	Sun	371 269 5 92325 36615 36491 49588 41061 269 5 00000	AM	(AB)
S06s	8530	25-12	0840	Sun	371 269 5 92325 36615 36491 49588 41061 269 5 00000	AM	(AB)
S06s	12830	26-12	0912	Mon	872 ...	USB	(BvR)
S06s	5250	27-12	0700	Tue	374 520 6 40048 43617 30343 84217 43043 48367 520 6 00000	USB	(AB)
S06s	6320	27-12	0715	Tue	374 520 6 40048 43617 30343 84217 43043 48367 520 6 00000	USB	(AB)
S06s	7410	27-12	0730	Tue	427 963 5 37596 83663 89533 30950 37014 963 5 00000	USB	(AB)
S06s	11532	27-12	0740	Tue	427 963 5 37596 83663 89533 30950 37014 963 5 00000	USB	(AB)
S06s	11945	27-12	0800	Tue	352 960 7 48980 48995 40333 43389 40419 30412 48343 960 7 00000	USB	(AB)
S06s	13195	27-12	0810	Tue	352 960 7 48980 48995 40333 43389 40419 30412 48343 960 7 00000	USB	(AB)
S06s	5035	27-12	1100	Tue	754 219 6 83964 40774 45983 48882 31151 32860 219 6 00000	USB	(AB-POL)
S06s	5975	27-12	1110	Tue	754 219 6 83964 40774 45983 48882 31151 32860 219 6 00000	USB	(AB-POL)
S06s	8417	28-12	0820	Wed	471 860 5 98411 38633 33885 34079 32193 860 5 00000	USB	(AB)
S06s	9262	28-12	0830	Wed	471 860 5 98411 38633 33885 34079 32193 860 5 00000	USB	(AB)
S06s	11535	28-12	0830	Wed	745 291 6 44365 43025 39283 33579 47568 40573 291 6 00000	USB	(AB)
S06s	11830	28-12	0840	Wed	745 291 6 44365 43025 39283 33579 47568 40573 291 6 00000	USB	(AB)
S06s	12365	28-12	1000	Wed	729 831 5 31896 36053 33779 32814 47565 831 5 00000	AM	(AB)
S06s	14280	28-12	1010	Wed	729 831 5 31896 36053 33779 32814 47565 831 5 00000	AM	(AB)
S06s	5765	29-12	0900	Thu	624 624 624 00000	USB	(AB-POL)
S06s	6315	29-12	0910	Thu	624 624 624 00000	USB	(AB-POL)
S06s	8812	29-12	0930	Thu	314 314 314 00000	USB	(AB)
S06s	9540	29-12	0940	Thu	314 314 314 00000	USB	(AB)
S06s	12155	29-12	1200	Thu	425 425 425 00000	AM	(AB)
S06s	10920	29-12	1210	Thu	425 425 425 00000	AM	(AB)
S06s	11780	30-12	0930	Fri	516 516 516 00000	USB	(AB)
S06s	12570	30-12	0945	Fri	516 516 516 00000	USB	(AB)
S11a	12530	1-12	1015	Thu	477/00	USB	(AB)
S11a	7504	2-12	0915	Fri	486/00	USB	(AB/ML4)
S11a	9610	2-12	1020	Fri	422/00	USB	(AB)
S11a	5815	2-12	1955	Fri	377/00	USB	(AB)
S11a	7504	6-12	0915	Tue	486/00	USB	(AB)
S11a	9610	6-12	1020	Tue	425/36 Vnmaniye 18226 02389 50027 ... 09202 42590 01144 Vnmaniye, rpt msg, konets	USB	(AB)
S11a	10728	7-12	1540	Wed	563/00	USB	(AB-ISL/MPJ)
S11a	5815	7-12	1955	Wed	379/00	USB	(AB/MPJ)
S11a	12530	8-12	1015	Thu	471/00	USB	(AB)
S11a	7504	9-12	0915	Fri	480/00	USB	(AB)
S11a	9610	9-12	1020	Fri	425/36 Vnmaniye 18226 02389 50027 ... 09202 42590 01144 Vnmaniye, rpt msg, konets	USB	(AB)
S11a	5815	9-12	1955	Fri	372/00	USB	(AB)
S11a	10728	10-12	1540	Sat	565/00	USB	(AB)
S11a	12530	12-12	1015	Mon	471/36 Vnmaniye ...	USB	(AB-I)
S11a	4828	13-12	0455	Tue	328/00	USB	(AB)
S11a	7504	13-12	0915	Tue	483/31 Vnmaniye 16805 63841 16270 ... 01051 32177 71020 Vnmaniye, rpt msg, konets	USB	(AB)
S11a	9610	13-12	1020	Tue	421/00	USB	(AB)
S11a	5815	14-12	1955	Wed	370/36 Vnmaniye 98175 95174 67121 ... 47181 90077 22668 Vnmaniye, rpt msg, konets	USB	(AB)
S11a	5815	14-12	1955	Wed	370/36 Vnmaniye 98175 95174 67121 ... 47181 90077 22668 Vnmaniye, rpt msg, konets	USB	(AB)
S11a	4828	16-12	0455	Fri	328/00	USB	(AB)
S11a	7504	16-12	0915	Fri	483/31 Vnmaniye 16805 63841 16270 ... 01051 32177	USB	(AB)

					71020 Vnimanaye, rpt msg, konets		
S11a	9610	16-12	1020	Fri	427/00	USB	(AB)
S11a	10728	17-12	1540	Sat	560/00	USB	(MPJ)
S11a	12530	19-12	1015	Mon	470/00	USB	(AB)
S11a	4828	20-12	0455	Tue	321/31 Vnimanaye 12526 93575 65576 ... 62571 67012 05989 Vnimanaye, rpt msg, konets	USB	(AB)
S11a	7504	20-12	0915	Tue	486/00	USB	(AB)
S11a	12530	22-12	1015	Thu	477/00	USB	(AB/Edd)
S11a	7504	23-12	0915	Fri	485/00	USB	(AB)
S11a	9610	23-12	1020	Fri	425/00	USB	(AB)
S11a	5815	23-12	1955	Fri	378/00	USB	(AB)
S11a	10728	24-12	1540	Sat	560/38 Vnimanaye ...	USB	(AB)
S11a	7504	27-12	0915	Tue	481/00	USB	(AB)
S11a	9610	27-12	1015	Tue	426/00	USB	(AB)
S11a	10728	28-12	1540	Wed	566/00	USB	(AB)
S11a	5815	28-12	1955	Wed	376/00	USB	(AB)
S11a	12530	29-12	1015	Thu	479/00	USB	(AB)
S11a	7504	30-12	0915	Fri	480/00	USB	(AB)
S11a	9610	30-12	1020	Fri	422/00	USB	(AB)
S11a	10728	31-12	1540	Sat	564/00	USB	(AB)
S28	4625	4-12	1702	Sun	ZhUOZ 28708 APAShOKAIR 36607001	USB	(Priyom)
S28	4625	5-12	0937	Mon	ZhUOZ 60338 VTORICHNOST' 60768642 DIODOSLOM 27921821 DAROKRON 68470176	USB	(Priyom)
S28	4625	5-12	1058	Mon	ZhUOZ 76247 BRYeZhNOST' 93765693	USB	(Priyom)
S28	4625	5-12	1231	Mon	ZhUOZ 84674 BURSAK 17011440	USB	(Priyom)
S28	4625	5-12	1257	Mon	ZhUOZ 25886 BRAKOPAK 85776647	USB	(Priyom)
S28	4625	5-12	1300	Mon	ZhUOZ 16590 DZhYeMOPONG 05600977	USB	(Priyom)
S28	4625	5-12	1631	Mon	ZhUOZ 02106 DZhUTOMIRT 80290724	USB	(Priyom)
S28	4625	7-12	1244	Wed	ZhUOZ 79907 KOVShODUB 83771471	USB	(Priyom)
S28	4625	7-12	1400	Wed	ZhUOZ 80511 DIODOPIR 21432879	USB	(Priyom)
S28	4625	15-12	0804	Thu	ZhUOZ 18826 KRYeVOShIFR 97843852	USB	(Priyom)
S28	4625	15-12	0841	Thu	ZhUOZ 85738 YeVPATORiYa 95805744 (Female voice on background "Operative duty officer...")	USB	(Priyom)
S28	4625	15-12	1249	Thu	ZhUOZ 82456 BAROSER 64680733	USB	(Priyom)
S28	4625	15-12	1408	Thu	ZhUOZ 54270 VYeSTOZVON 02238893	USB	(Priyom)
S28	6998	26-12	0659	Mon	Buzzer channel marker	USB	(BvR)
S30	5448	5-12	1328	Mon	ShchGJP TZLM FY5E F61N 37CN MUDR 7VNShch Zh7NZh YMA5 VTH3	USB	(Priyom)
S30	5448	5-12	1336	Mon	8S1Shch. Weather warning	USB	(Priyom)
S30	3756	7-12	0506	Wed	6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV DEAY JH'J 12CI 79AJ	USB	(Priyom)
S30	5448	7-12	1237	Wed	8S1Shch 86489 GANGSKIJ 23135040 (Time mark after the transmission)	USB	(Priyom)
S30	5448	7-12	1355	Wed	8S1Shch 65783 KVADRATNYJ 81317410 (Time mark after the transmission)	USB	(Priyom)
S30	3756	7-12	1536	Wed	8S1Shch 71949 DZhUTOShU 80637841 (Time mark after the transmission)	USB	(Priyom)
S30	3756	7-12	1842	Wed	TUZR 5J7Shch DMC3 49FT C2ZA INNC ShchGJP TZLM FY5E F61N	USB	(Priyom)
S30	3756	15-12	0503	Thu	ZhBZU 4RVZ 3VS' DKJ1 ZhD9V 42BV 81BR M7KS PMV5 L'GJ	USB	(Priyom)
S30	3756	15-12	1416	Thu	8S1Shch 94836 BYeSOKOL 07383163 (Time mark after the transmission)	USB	(Priyom)
S30	3756	15-12	1734	Thu	V2MZ SB7Z 'O6P Y8VM 6I2Zh 8CShchJ 27Shch' N1DU 53OB 78MV	USB	(Priyom)
S32	3828	4-12	1636	Sun	AL'FA-45 76581 ZUBOSKAL 33758503 (S30 in the back- ground)	USB	(Priyom)
S32	3828	4-12	1704	Sun	AL'FA-45 31880 AKTUARIJ 51002537 (S30 in the background)	USB	(Priyom)
S32	3828	4-12	1759	Sun	PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37 (S30 in the background)	USB	(Priyom)
S32	3828	5-12	1701	Mon	OTPOR-89 PYeSOChNYJ-21 ShULER-60 STUPA-32 RYeZINA-38 BURKA-37 (S30 in the background)	USB	(Priyom)
S32	5473	7-12	0740	Wed	SLIVA-94 UTYoS-94 DZhIGIT-46 FONTAN-34 ALEUT-09 PYeN- ZA-07	USB	(Priyom)
S32	5473	7-12	1243	Wed	AL'FA-45 10213 GORISPOLKOM 24982157	USB	(Priyom)
S32	5473	7-12	1403	Wed	AL'FA-45 86452 JODOBIMS 93342071	USB	(Priyom)
S32	3828	7-12	1514	Wed	DUBLYoR-68 STAZHER-29 STOROZh-62 YaHTA-94 RUZh'E-26 ROSA-64	USB	(Priyom)
S32	3828	7-12	1540	Wed	AL'FA-45 16803 MOROSHKA 57757151 (S30 in the back- ground)	USB	(Priyom)
UM10	3536	1-12	1045	Thu	10-mins net: ZJL4 //3805 kHz	CW	(JPL-KOR)
UM10	3805	1-12	1045	Thu	10-mins net: ZJL4 //3536 kHz	CW	(JPL-KOR)
UM10	3316	1-12	1053	Thu	10-mins net: OUCH //3648 kHz	CW	(JPL-KOR)
UM10	3648	1-12	1053	Thu	10-mins net: OUCH //3316 kHz	CW	(JPL-KOR)

UM10	3206	2-12	0953	Fri	10-mins net: KTR4 //3865 kHz	CW	(JPL-KOR)
UM10	3865	2-12	0953	Fri	10-mins net: KTR4 //3206 kHz	CW	(JPL-KOR)
UM10	3238	2-12	0955	Fri	10-mins net: D6AN //3698 kHz	CW	(JPL-KOR)
UM10	3698	2-12	0955	Fri	10-mins net: D6AN //3238 kHz	CW	(JPL-KOR)
UM10	3238	2-12	1853	Fri	10-mins net: D6AN //3698 kHz	CW	(JPL-KOR)
UM10	3698	2-12	1853	Fri	10-mins net: D6AN //3238 kHz	CW	(JPL-KOR)
UM10	3206	2-12	1855	Fri	10-mins net: KTR4 //3865 kHz	CW	(JPL-KOR)
UM10	3865	2-12	1855	Fri	10-mins net: KTR4 //3206 kHz	CW	(JPL-KOR)
UM10	3206	6-12	1655	Tue	10-mins net: KTR4 //3865 kHz	CW	(JPL-NZL)
UM10	3865	6-12	1655	Tue	10-mins net: KTR4 //3206 kHz	CW	(JPL-NZL)
UM10	3238	6-12	1658	Tue	10-mins net: D6AN //3698 kHz	CW	(JPL-NZL)
UM10	3698	6-12	1658	Tue	10-mins net: D6AN //3238 UTC	CW	(JPL-NZL)
UM10	3865	7-12	1659	Wed	10-mins net: KTR4	CW	(JPL-KOR)
UM10	3865	7-12	1722	Wed	10-mins net: KTR4	CW	(JPL-KOR)
UM10	3698	7-12	1725	Wed	10-mins net: D6AN	CW	(JPL-J)
UM10	3238	8-12	1121	Thu	10-mins net: D6AN	CW	(JPL-KOR)
UM10	3206	8-12	1122	Thu	10-mins net: KTR4	CW	(JPL-KOR)
UM10	3238	8-12	1220	Thu	10-mins net: D6AN	CW	(JPL-KOR)
UM10	3206	8-12	1221	Thu	10-mins net: KTR4	CW	(JPL-KOR)
UM10	3865	8-12	1459	Thu	10-mins net: KTR4	CW	(JPL-KOR)
UM10	3238	10-12	1819	Sat	10-mins net: D6AN	CW	(JPL-J)
UM10	3206	10-12	1822	Sat	10-mins net: KTR4	CW	(JPL-J)
UM10	3238	11-12	0920	Sun	10-mins net: D6AN	CW	(F5JBR-KOR)
UM10	3238	11-12	0920	Sun	10-mins net: D6AN	CW	(F5JBR-KOR)
UM10	3206	11-12	0950	Sun	10-mins net: KTR4 //3865 kHz	CW	(F5JBR-KOR)
UM10	3865	11-12	0950	Sun	10-mins net: KTR4 //3206 kHz	CW	(F5JBR-KOR)
UM10	3238	11-12	1750	Sun	10-mins net: D6AN //3698 kHz	CW	(F5JBR-KOR)
UM10	3698	11-12	1750	Sun	10-mins net: D6AN //3238 kHz	CW	(F5JBR-KOR)
UM10	6877	13-12	0620	Tue	10-mins net: L3AD	CW	(F5JBR-KOR)
UM10	6920	13-12	0620	Tue	10-mins net: L65K	CW	(F5JBR-KOR)
UM10	5735	13-12	0650	Tue	10-mins net: L65K	CW	(F5JBR-KOR)
UM10	5762	13-12	0650	Tue	10-mins net: L3AD	CW	(F5JBR-KOR)
UM10	3238	13-12	1456	Tue	10-mins net: D6AN //3698 kHz	CW	(JPL-J)
UM10	3698	13-12	1456	Tue	10-mins net: D6AN //3238 kHz	CW	(JPL-J)
UM10	3206	13-12	1459	Tue	10-mins net: KTR4	CW	(JPL-J)
UM10	3206	16-12	1457	Fri	10-mins net: KTR4	CW	(JPL-KOR)
UM10	3238	16-12	1458	Fri	10-mins net: D6AN	CW	(JPL-KOR)
UM10	5762	20-12	0423	Tue	10-mins net: L3AD //6877 kHz	CW	(JPL-KOR)
UM10	6877	20-12	0423	Tue	10-mins net: L3AD //5762 kHz	CW	(JPL-KOR)
UM10	5735	20-12	0424	Tue	10-mins net: L65K //6920 kHz	CW	(JPL-KOR)
UM10	6920	20-12	0424	Tue	10-mins net: L65K //5735 kHz	CW	(JPL-KOR)
UM10	3238	20-12	1256	Tue	10-mins net: D6AN //3698 kHz	CW	(JPL-KOR)
UM10	3698	20-12	1256	Tue	10-mins net: D6AN //3238 kHz	CW	(JPL-KOR)
UM10	3206	20-12	1257	Tue	10-mins net: KTR4 //3865 kHz	CW	(JPL-KOR)
UM10	3865	20-12	1257	Tue	10-mins net: KTR4 //3206 kHz	CW	(JPL-KOR)
UM10	3206	29-12	1227	Thu	10-mins net: KTR4 //3865 kHz	CW	(JPL-J)
UM10	3865	29-12	1227	Thu	10-mins net: KTR4 //3206 kHz	CW	(JPL-J)
UM10	3238	29-12	1229	Thu	10-mins net: D6AN //3698 kHz	CW	(JPL-J)
UM10	3698	29-12	1229	Thu	10-mins net: D6AN //3238 kHz	CW	(JPL-J)
UM10	3206	29-12	1453	Thu	10-mins net: KTR4 //3865 kHz	CW	(JPL-J)
UM10	3865	29-12	1453	Thu	10-mins net: KTR4 //3206 kHz	CW	(JPL-J)
UM10	3238	29-12	1454	Thu	10-mins net: D6AN //3698 kHz	CW	(JPL-J)
UM10	3698	29-12	1454	Thu	10-mins net: D6AN //3238 kHz	CW	(JPL-J)
V02a	7555	13-12	2000	Tue	Mixing with M08a. Too weak to copy. Headers: 04461 17882 21221	LSB	(qsr711)
V02a	7555	15-12	2000	Thu	Mixing with M08a. Headers: 82482 03122 26551	LSB	(qsr711)
V02a	7555	27-12	2000	Tue	Mixing with M08a. Headers: 55572 76212 80631	LSB	(qsr711)
V02a	7555	29-12	2000	Thu	Mixing with M08a. Headers: 35822 56652 60081	LSB	(qsr711)
V07	16037	11-12	0100	Sun	661 661 661 1 278 79 75397 42395 73919 51178 000 000	USB	(Dan)
V07	14637	11-12	0120	Sun	661 661 661 1 278 79 75397 42395 73919 51178 000 000	USB	(Dan)
V07	12137	11-12	0140	Sun	661 661 661 1 278 79 75397 42395 73919 51178 000 000	USB	(Dan)
V07	16037	18-12	0100	Sun	661 661 661 000	USB	(Dan)
V07	14637	18-12	0120	Sun	661 661 661 000	USB	(Dan)
V07	16037	25-12	0100	Sun	661 661 661 000	USB	(Dan)
V07	14637	25-12	0120	Sun	661 661 661 000	USB	(Dan)
V13	15250	6-12	0700	Tue	New Star Broadcasting	AM	(AB-HK)
V13	15250	6-12	0800	Tue	New Star Broadcasting	AM	(AB-HK)
V13	15250	7-12	0700	Wed	New Star Broadcasting	AM	(AB-HK)
V13	15250	7-12	0800	Wed	New Star Broadcasting	AM	(AB-HK)
V13	15250	8-12	0700	Thu	New Star Broadcasting	AM	(AB-KOR)
V13	15250	8-12	0800	Thu	New Star Broadcasting	AM	(AB-KOR)
V13	15250	11-12	0700	Sun	New Star Broadcasting	AM	(AB-HK)

V13	15250	11-12	0800	Sun	New Star Broadcasting	AM	(AB-HK)
V13	11430	12-12	0500	Mon	New Star Broadcasting	AM	(AB-KOR)
V13	11430	12-12	0600	Mon	New Star Broadcasting	AM	(AB-KOR)
V13	15250	12-12	0700	Mon	New Star Broadcasting	AM	(AB-KOR)
V13	15250	12-12	0800	Mon	New Star Broadcasting	AM	(AB-KOR)
V13	11430	14-12	0500	Wed	New Star Broadcasting	AM	(AB-HK)
V13	11430	14-12	0600	Wed	New Star Broadcasting	AM	(AB-HK)
V13	15250	14-12	0700	Wed	New Star Broadcasting	AM	(AB-HK)
V13	15250	14-12	0800	Wed	New Star Broadcasting	AM	(AB-HK)
V13	11430	15-12	0500	Thu	New Star Broadcasting	AM	(AB-HK)
V13	11430	15-12	0600	Thu	New Star Broadcasting	AM	(AB-HK)
V13	15250	18-12	0700	Sun	New Star Broadcasting	AM	(AB-KOR)
V13	15250	18-12	0800	Sun	New Star Broadcasting	AM	(AB-KOR)
V13	11430	19-12	0500	Mon	New Star Broadcasting	AM	(AB-KOR)
V13	11430	19-12	0600	Mon	New Star Broadcasting	AM	(AB-KOR)
V13	15250	19-12	0700	Mon	New Star Broadcasting	AM	(AB-KOR)
V13	15250	19-12	0800	Mon	New Star Broadcasting	AM	(AB-KOR)
V13	11430	20-12	0500	Tue	New Star Broadcasting	AM	(AB-KOR)
V13	11430	20-12	0600	Tue	New Star Broadcasting	AM	(AB-KOR)
V13	11430	21-12	0500	Wed	New Star Broadcasting	AM	(AB-KOR)
V13	11430	21-12	0600	Wed	New Star Broadcasting	AM	(AB-KOR)
V13	15250	21-12	0700	Wed	New Star Broadcasting	AM	(AB-HK)
V13	15250	21-12	0800	Wed	New Star Broadcasting	AM	(AB-HK)
V13	11430	22-12	0500	Thu	New Star Broadcasting	AM	(AB-KOR)
V13	11430	22-12	0600	Thu	New Star Broadcasting	AM	(AB-KOR)
V13	11430	24-12	0600	Sat	New Star Broadcasting	AM	(AB-HK)
V13	15250	24-12	0700	Sat	New Star Broadcasting	AM	(AB-HK)
V13	15250	24-12	0800	Sat	New Star Broadcasting	AM	(AB-HK)
V24	6215	5-12	1500	Mon	Music followed by messages in Korean	AM	(EY)
V24	6215	7-12	1500	Wed	Music followed by messages in Korean	AM	(Moo)
V24	6215	9-12	1500	Fri	Music followed by messages in Korean	AM	(BCL)
V24	5715	21-12	1500	Wed	Music followed by messages	AM	(AB-J)
V26	4242	2-12	1214	Fri	Message in Chinese. Female operator	USB	(JPL-KOR)
V26	9054	3-12	0308	Sat	Messages in Chinese. Female operator	USB	(JPL-KOR)
V26	4364	6-12	1206	Tue	Messages in Chinese. Male operator //8073 kHz	USB	(JPL-NZL)
V26	8073	6-12	1206	Tue	Messages in Chinese. Male operator //4364 kHz	USB	(JPL-NZL)
V26	4243	6-12	1220	Tue	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	6-12	1220	Tue	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4364	8-12	1155	Thu	Messages in Chinese. Female operator //8073 kHz	USB	(JPL-HK)
V26	8073	8-12	1155	Thu	Messages in Chinese. Female operator //4364 kHz	USB	(JPL-HK)
V26	9054	8-12	2247	Thu	Messages in Chinese. Female operator	USB	(Dan)
V26	9054	8-12	2247	Thu	Messages in Chinese. Female operator	USB	(Dan)
V26	9054	8-12	2340	Thu	Callup in Chinese. Female operator	USB	(Dan/JPL-KOR)
V26	9054	8-12	2340	Thu	Callup in Chinese. Female operator	USB	(Dan)
V26	9054	9-12	0007	Fri	Messages in Chinese. Female operator	USB	(Dan)
V26	9054	9-12	0007	Fri	Messages in Chinese. Female operator	USB	(Dan)
V26	8073	9-12	1130	Fri	Callup in Chinese. Male operator	USB	(JPL-J)
V26	4243	9-12	1205	Fri	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-J)
V26	9054	9-12	1205	Fri	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-J)
V26	4243	10-12	2253	Sat	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	10-12	2253	Sat	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4243	11-12	1139	Sun	Callup in Chinese. Female operator //9054 UTC	USB	(JPL-J)
V26	9054	11-12	1139	Sun	Callup in Chinese. Female operator //4243 UTC	USB	(JPL-J)
V26	4243	11-12	2339	Sun	Callup in Chinese. Female operator //9054 UTC	USB	(JPL-J)
V26	9054	11-12	2339	Sun	Callup in Chinese. Female operator //4243 UTC	USB	(JPL-J)
V26	4243	12-12	0015	Mon	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	12-12	0015	Mon	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4243	12-12	0942	Mon	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	12-12	0942	Mon	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4730	13-12	2337	Tue	Voice traffic in Chinese	CW	(JPL-KOR)
V26	4243	13-12	2340	Tue	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	13-12	2340	Tue	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4342	15-12	0008	Thu	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	15-12	0008	Thu	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4243	15-12	1140	Thu	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	15-12	1140	Thu	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4243	15-12	2339	Thu	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	15-12	2339	Thu	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4243	16-12	1139	Fri	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	16-12	1139	Fri	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4243	20-12	1140	Tue	Callup in Chinese. Female operator	USB	(JPL-KOR)
V26	4243	20-12	1218	Tue	Messages in Chinese. Female operator	USB	(JPL-KOR)

V26	4364	21-12	1205	Wed	Messages in Chinese. Male operator	USB	(JPL-KOR)
V26	4243	21-12	1215	Wed	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	21-12	1215	Wed	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4243	22-12	0917	Thu	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-KOR)
V26	9054	22-12	0917	Thu	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-KOR)
V26	4283	22-12	1330	Thu	Signal very distorted	USB	(JPL-KOR)
V26	4364	24-12	1130	Sat	Callup in Chinese. Male operator //8073 kHz	USB	(JPL-NZL)
V26	8073	24-12	1130	Sat	Callup in Chinese. Male operator //4364 kHz	USB	(JPL-NZL)
V26	4243	24-12	1207	Sat	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	24-12	1207	Sat	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	29-12	1215	Thu	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-J)
V26	9054	29-12	1215	Thu	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-J)
V26	9054	29-12	2342	Thu	Callup in Chinese. Female operator	USB	(Dan)
V26	9054	30-12	0000	Fri	Messages in Chinese. Female operator	USB	(Dan)
V26	4243	31-12	1139	Sat	Callup in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	31-12	1139	Sat	Callup in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V26	4243	31-12	1158	Sat	Messages in Chinese. Female operator //9054 kHz	USB	(JPL-NZL)
V26	9054	31-12	1158	Sat	Messages in Chinese. Female operator //4243 kHz	USB	(JPL-NZL)
V28	3277	26-12	1331	Mon	Messages in Korean. Female operator	USB	(kimi)
V28	3277	28-12	1339	Wed	Messages in Korean. Female operator	USB	(kimi)
X06	18177	10-12	0904	Sat	Mazielka. Sequence: 164253	MFSK	(Danix)
X06	13924	10-12	0920	Sat	Mazielka. Sequence: 164253	MFSK	(Danix)
X06	20334	10-12	0937	Sat	Mazielka. Sequence: 164253	MFSK	(Danix)
X06	15710	11-12	1140	Sun	Mazielka. Sequence: 261453	MFSK	(Danix)
X06	9162	12-12	1401	Mon	Mazielka. Sequence: 364152	MFSK	(Danix)
X06	12177	12-12	1418	Mon	Mazielka. Sequence: 364152	MFSK	(AAI)
X06	13547	16-12	1034	Fri	Mazielka. Sequence: 625413	MFSK	(AAI)
X06	10193	20-12	1026	Tue	Mazielka. Sequence: 164521	MFSK	(AAI)
X06	16188	20-12	1157	Tue	Mazielka. Sequence: 325614	MFSK	(Danix)
X06	12177	23-12	0932	Fri	Mazielka. Sequence: 356412	MFSK	(Danix)
X06	6866	25-12	1825	Sun	Mazielka. Sequence: 145632	MFSK	(JS3)
X06	12109	26-12	1005	Mon	Mazielka. Sequence: 431625	MFSK	(AAI)
X06	9061	28-12	0835	Wed	Mazielka. Sequence: 412356 and 134265	MFSK	(AAI/Danix)
X06	13419	28-12	0851	Wed	Mazielka. Sequence: 465132	MFSK	(Danix)
X06	13985	28-12	0853	Wed	Mazielka. Sequence: 134265	MFSK	(Danix)
X06b	11493	23-12	1038	Fri	Mazielka. Sequence: 1--6--	MFSK	(AB)
XPA	7756	3-12	0700	Sat	706 706 706 000 05461 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9056	3-12	0720	Sat	706 706 706 000 05461 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10656	3-12	0740	Sat	706 706 706 000 05461 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	7756	7-12	0700	Wed	706 1 08405 00135 37981 ... 22218 79708 66577	MFSK-20/10Bd	(AB)
XPA	9056	7-12	0720	Wed	706 1 08405 00135 37981 ... 22218 79708 66577	MFSK-20/10Bd	(AB)
XPA	10656	7-12	0740	Wed	706 1 08405 00135 37981 ... 22218 79708 66577	MFSK-20/10Bd	(AB)
XPA	7756	10-12	0700	Sat	706 1 08405 00135 37981 ... 22218 79708 66577	MFSK-20/10Bd	(AB)
XPA	9056	10-12	0720	Sat	706 1 08405 00135 37981 ... 22218 79708 66577	MFSK-20/10Bd	(AB)
XPA	10656	10-12	0740	Sat	706 1 08405 00135 37981 ... 22218 79708 66577	MFSK-20/10Bd	(AB)
XPA	7756	14-12	0700	Wed	706 706 706 000 03419 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	9056	14-12	0720	Wed	706 706 706 000 03419 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	10656	14-12	0740	Wed	706 706 706 000 03419 00001 00000 10140	MFSK-20/10Bd	(AB/HFD)
XPA	7756	17-12	0700	Sat	706 706 706 000 07514 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9056	17-12	0720	Sat	706 706 706 000 07514 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10656	17-12	0740	Sat	706 706 706 000 07514 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	7756	21-12	0700	Wed	706 1 09634 00225 09215 ... 43978 68730 70312	MFSK-20/10Bd	(AB)
XPA	9056	21-12	0720	Wed	706 1 09634 00225 09215 ... 43978 68730 70312	MFSK-20/10Bd	(AB)
XPA	10656	21-12	0740	Wed	706 1 09634 00225 09215 ... 43978 68730 70312	MFSK-20/10Bd	(AB)
XPA	7756	24-12	0700	Sat	706 1 09634 00225 09215 ... 43978 68730 70312	MFSK-20/10Bd	(AB)
XPA	9056	24-12	0720	Sat	706 1 09634 00225 09215 ... 43978 68730 70312	MFSK-20/10Bd	(AB)
XPA	10656	24-12	0740	Sat	706 1 09634 00225 09215 ... 43978 68730 70312	MFSK-20/10Bd	(AB)
XPA	7756	28-12	0700	Wed	706 706 706 000 08727 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9056	28-12	0720	Wed	706 706 706 000 08727 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10656	28-12	0740	Wed	706 706 706 000 08727 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	7756	31-12	0700	Sat	706 706 706 000 05440 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	9056	31-12	0720	Sat	706 706 706 000 05440 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA	10656	31-12	0740	Sat	706 706 706 000 05440 00001 00000 10140	MFSK-20/10Bd	(AB)
XPA2	13393	2-12	0700	Fri	05790 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14493	2-12	0720	Fri	05790 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16293	2-12	0740	Fri	05790 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15967	2-12	1400	Fri	08014 00081 02553 ... 58227 74437 42554	MFSK-16/20Bd	(AB/MPJ)
XPA2	13884	2-12	1420	Fri	08014 00081 02553 ... 58227 74437 42554	MFSK-16/20Bd	(AB/MPJ)
XPA2	12217	2-12	1440	Fri	08014 00081 02553 ... 58227 74437 42554	MFSK-16/20Bd	(AB/MPJ)
XPA2	15967	3-12	1400	Sat	08014 00081 02553 ... 58227 74437 42554	MFSK-16/20Bd	(AB/MPJ)
XPA2	13884	3-12	1420	Sat	08014 00081 02553 ... 58227 74437 42554	MFSK-16/20Bd	(AB/MPJ)
XPA2	12217	3-12	1440	Sat	08014 00081 02553 ... 58227 74437 42554	MFSK-16/20Bd	(AB/MPJ)

XPA2	14538	4-12	1300	Sun	05936 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13538	4-12	1320	Sun	05936 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12138	4-12	1340	Sun	05936 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15861	5-12	0800	Mon	01435 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14761	5-12	0820	Mon	01435 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13561	5-12	0840	Mon	01435 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13393	6-12	0700	Tue	02103 00065 72158 ... 61136 24105 00075	MFSK-16/20Bd	(AB/HFD)
XPA2	14493	6-12	0720	Tue	02103 00065 72158 ... 61136 24105 00075	MFSK-16/20Bd	(AB/HFD)
XPA2	16293	6-12	0740	Tue	02103 00065 72158 ... 61136 24105 00075	MFSK-16/20Bd	(AB/HFD)
XPA2	14538	6-12	1300	Tue	02004 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	6-12	1320	Tue	02004 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	12138	6-12	1340	Tue	02004 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	15861	7-12	0800	Wed	06316 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14761	7-12	0820	Wed	06316 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13561	7-12	0840	Wed	06316 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13393	9-12	0700	Fri	02103 00065 72158 ... 61136 24105 00075	MFSK-16/20Bd	(AB)
XPA2	14493	9-12	0720	Fri	02103 00065 72158 ... 61136 24105 00075	MFSK-16/20Bd	(AB)
XPA2	16293	9-12	0740	Fri	02103 00065 72158 ... 61136 24105 00075	MFSK-16/20Bd	(AB)
XPA2	15967	9-12	1400	Fri	02450 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13884	9-12	1420	Fri	02450 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12217	9-12	1440	Fri	02450 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15967	10-12	1400	Sat	04977 00001 00000 off before the end	MFSK-16/20Bd	(AB/MPJ)
XPA2	13884	10-12	1420	Sat	04977 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	12217	10-12	1440	Sat	04977 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	14538	11-12	1300	Sun	00333 00089 10288 ... 71147 02870 71262	MFSK-16/20Bd	(AB)
XPA2	13538	11-12	1320	Sun	00333 00089 10288 ... 71147 02870 71262	MFSK-16/20Bd	(AB/MPJ)
XPA2	12138	11-12	1340	Sun	00333 00089 10288 ... 71147 02870 71262	MFSK-16/20Bd	(AB/MPJ)
XPA2	15861	12-12	0800	Mon	03143 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14761	12-12	0820	Mon	03143 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13561	12-12	0840	Mon	03143 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13393	13-12	0700	Tue	09305 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14493	13-12	0720	Tue	09305 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16293	13-12	0740	Tue	09305 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14538	13-12	1300	Tue	00333 00089 10288 ... 71147 02870 71262	MFSK-16/20Bd	(AB/HFD)
XPA2	13538	13-12	1320	Tue	00333 00089 10288 ... 71147 02870 71262	MFSK-16/20Bd	(AB/HFD)
XPA2	12138	13-12	1340	Tue	00333 00089 10288 ... 71147 02870 71262	MFSK-16/20Bd	(AB/HFD)
XPA2	15861	14-12	0800	Wed	03702 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14761	14-12	0820	Wed	03702 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13561	14-12	0840	Wed	03702 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13393	16-12	0700	Fri	01933 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14493	16-12	0720	Fri	01933 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16293	16-12	0740	Fri	01933 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15967	16-12	1400	Fri	03564 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	13884	16-12	1420	Fri	03564 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	12217	16-12	1440	Fri	03564 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ)
XPA2	15967	17-12	1400	Sat	04078 00001 00000 10140	MFSK-16/20Bd	(AB/MPJ/HFD)
XPA2	13884	17-12	1420	Sat	04078 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	12217	17-12	1440	Sat	04078 00001 00000 10140	MFSK-16/20Bd	(AB/HFD)
XPA2	14538	18-12	1300	Sun	08108 00067 67294 ... 23608 07903 00645 34433	MFSK-16/20Bd	(AB)
XPA2	13538	18-12	1320	Sun	08108 00067 67294 ... 23608 07903 00645 34433	MFSK-16/20Bd	(AB)
XPA2	12138	18-12	1340	Sun	08108 00067 67294 ... 23608 07903 00645 34433	MFSK-16/20Bd	(AB)
XPA2	15861	19-12	0800	Mon	03143 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14761	19-12	0820	Mon	03143 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13561	19-12	0840	Mon	03143 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13393	20-12	0700	Tue	04878 00115 10324 ... 01499 57085 13500	MFSK-16/20Bd	(AB)
XPA2	14493	20-12	0720	Tue	04878 00115 10324 ... 01499 57085 13500	MFSK-16/20Bd	(AB)
XPA2	16293	20-12	0740	Tue	04878 00115 10324 ... 01499 57085 13500	MFSK-16/20Bd	(AB)
XPA2	14538	20-12	1300	Tue	08108 00067 67294 ... 23608 07903 00645 34433	MFSK-16/20Bd	(AB/MPJ)
XPA2	13538	20-12	1320	Tue	08108 00067 67294 ... 23608 07903 00645 34433	MFSK-16/20Bd	(AB/MPJ)
XPA2	12138	20-12	1340	Tue	08108 00067 67294 ... 23608 07903 00645 34433	MFSK-16/20Bd	(AB/MPJ)
XPA2	15861	21-12	0800	Wed	06671 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14761	21-12	0820	Wed	06671 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13561	21-12	0840	Wed	06671 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	13393	23-12	0700	Fri	04878 00115 10324 ... 01499 57085 13500	MFSK-16/20Bd	(AB)
XPA2	14493	23-12	0720	Fri	04878 00115 10324 ... 01499 57085 13500	MFSK-16/20Bd	(AB)
XPA2	16293	23-12	0740	Fri	04878 00115 10324 ... 01499 57085 13500	MFSK-16/20Bd	(AB)
XPA2	15967	23-12	1400	Fri	01302 00051 56481 ... 52488 16298 65421	MFSK-16/20Bd	(AB/MPJ)
XPA2	13884	23-12	1420	Fri	01302 00051 56481 ... 52488 16298 65421	MFSK-16/20Bd	(AB/MPJ)
XPA2	12217	23-12	1440	Fri	01302 00051 56481 ... 52488 16298 65421	MFSK-16/20Bd	(AB/MPJ)
XPA2	15967	24-12	1400	Sat	01302 00051 56481 ... 52488 16298 65421	MFSK-16/20Bd	(AB/MPJ)
XPA2	13884	24-12	1420	Sat	01302 00051 56481 ... 52488 16298 65421	MFSK-16/20Bd	(AB/BvR)
XPA2	12217	24-12	1440	Sat	01302 00051 56481 ... 52488 16298 65421	MFSK-16/20Bd	(AB/BvR)

XPA2	15861	25-12	0800	Sun	08262 00189 71403 ... 72575 37123 06073	MFSK-16/20Bd	(AB)
XPA2	14761	25-12	0820	Sun	08262 00189 71403 ... 72575 37123 06073	MFSK-16/20Bd	(AB)
XPA2	13561	25-12	0840	Sun	08262 00189 71403 ... 72575 37123 06073	MFSK-16/20Bd	(AB)
XPA2	13393	27-12	0700	Tue	01884 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14493	27-12	0720	Tue	01884 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16293	27-12	0740	Tue	01884 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15861	28-12	0800	Wed	08262 00189 71403 ... 72575 37123 06073	MFSK-16/20Bd	(AB)
XPA2	14761	28-12	0820	Wed	08262 00189 71403 ... 72575 37123 06073	MFSK-16/20Bd	(AB)
XPA2	13561	28-12	0840	Wed	08262 00189 71403 ... 72575 37123 06073	MFSK-16/20Bd	(AB)
XPA2	13393	30-12	0700	Fri	08147 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	14493	30-12	0720	Fri	08147 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	16293	30-12	0740	Fri	08147 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	15967	30-12	1400	Fri	09329 00123 13362 ... 31142 49250 06505	MFSK-16/20Bd	(AB)
XPA2	13884	30-12	1420	Fri	09329 00123 13362 ... 31142 49250 06505	MFSK-16/20Bd	(AB/MPJ)
XPA2	12217	30-12	1440	Fri	09329 00123 13362 ... 31142 49250 06505	MFSK-16/20Bd	(AB/MPJ)
XPA2	15967	31-12	1400	Sat	09329 00123 13362 ... 31142 49250 06505	MFSK-16/20Bd	(AB/GHn/MPJ)
XPA2	13884	31-12	1420	Sat	09329 00123 13362 ... 31142 49250 06505	MFSK-16/20Bd	(AB/MPJ)
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XSL	4231.5	8-12	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	4291	8-12	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	6250	8-12	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	6417	8-12	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	6445	8-12	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	8313	8-12	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	8588	8-12	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	8703.5	8-12	0618	Thu	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-KOR)
XSL	4153	30-12	1747	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-NZL)
XSL	4231.5	30-12	1747	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-NZL)
XSL	4291	30-12	1747	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-NZL)
XSL	6250	30-12	1747	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-NZL)
XSL	6417	30-12	1747	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-NZL)
XSL	6445	30-12	1747	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-NZL)
XSL	8313	30-12	1747	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-NZL)
XSL	8588	30-12	1747	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-NZL)
XSL	8703.5	30-12	1747	Fri	Japanese Navy a.k.a. Slot Machine	QPSK 1500Bd	(AB-NZL)

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