

678	27364	92836	89428	61288	74982	36498	32764	81276	81
986	48932	78987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	76
9723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
591	87364	87265	96710	27630	12673	84769	28743	98127	59
58	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43286	432
657	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
976	87698	69876	87698	69876	87612	12341	34867	86798	632
967	43298	65656	56756	56123	32143	14321	32143	14321	321
941	92787	58765	76587	58765	76587	58765	76587	58756	765
75454	86543	54365	36543	54365	36543	54365	36543	54365	543

Numbers & Oddities *a.k.a. The Spooks Newsletter*

Edition #157, October 2010

Editor: Ary Boender email: ary@luna.nl

Check for previous newsletters, info, sound samples and databases also:

NUMBERS & ODDITIES <http://www.ary.luna.nl>
<http://www.numbersoddities.nl>
SPY NUMBERS ONLINE DATABASE <http://www.spynumbers.com/numbersDB>
UTILITY DXERS FORUM (UDXF) <http://www.udxf.nl>

What was hot in October? S28 transmitted again quite a lot of messages in October. The buzzer was on and off at times. Its sister station S30 was also active and sent at least 2 messages. Further we have a lot of M32 logs and news.

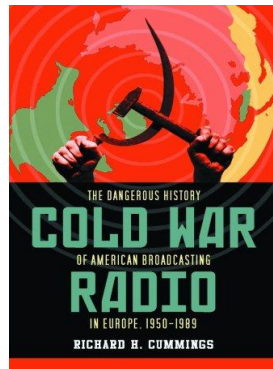
Recently two new books that might be of interest to you were published. "Cold War Radio" about RFE/RL and "The New Nobility" written by Andrei Soldatov and Irina Borogan.

COLD WAR RADIO

The Dangerous History of American Broadcasting in Europe, 1950-1989

Author: Richard H. Cummings

ISBN10:
0786441380
ISBN13:
9780786441389



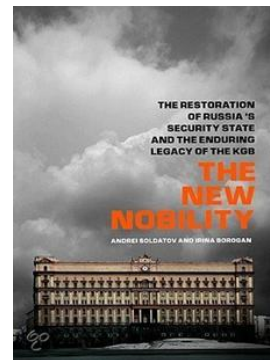
During the Cold War, Radio Free Europe and Radio Liberty broadcast uncensored news and commentary to people living in communist nations. As critical elements of the CIA's early covert activities against communist regimes in Eastern Europe, the Munich-based stations drew a large audience despite efforts to jam the broadcasts and ban citizens from listening to them. This history of the stations in the Cold War era reveals the perils their staff faced from the Soviet Union, Bulgaria, Romania and other communist states. It recounts in detail the murder of writer Georgi Markov, the 1981 bombing of the stations by "Carlos the Jackal" infiltration by KGB agent Oleg Tumanov and other events. Appendices include security reports, letters between Carlos the Jackal and German terrorist Johannes Weinrich and other documents, many of which have never been published.

THE NEW NOBILITY

The Restoration of Russia's Security State and the Enduring Legacy of the KGB

Authors:
Andrei Soldatov &
Irina Borogan

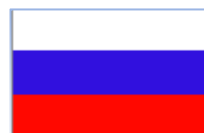
ISBN 978-1586488024



In the first book from inside Russia in more than fifteen years on the influence and role of the security services, two courageous journalists chart how the KGB rose from the Soviet ashes and recreated itself at the prompting and with the assistance of Vladimir Putin. In *The New Nobility*, two courageous Russian investigative journalists open up the closed and murky world of the Russian Federal Security Service. While Vladimir Putin has been president and prime minister of Russia, the Kremlin has deployed the security services to intimidate the political opposition, reassert the power of the state, and carry out assassinations overseas. At the same time, its agents and spies were put beyond public accountability and blessed with the prestige, benefits, and legitimacy lost since the Soviet collapse. The security services have played a central - and often mysterious - role at key turning points in Russia during these tumultuous years: from Moscow apartment house bombings and theater siege, to the war in Chechnya and the Beslan massacre. The security services are not all-powerful; they have made clumsy and sometimes catastrophic blunders. But what is clear is that after the chaotic 1990s, when they were sidelined, they have made a remarkable return to power, abetted by their most famous alumnus, Putin.

VOICE STATIONS

S28 – The Buzzer (UVB-76/UZB-76, MDZhB)



МДЖБ МДЖБ 68 832 ПРИРОДА 15 76 95 38

It really looks like the site that I mentioned last month (56N4.96 37E5.38) is the actual transmitter site.



After a tip from Rimantas I did some research in a number of Russian newspapers amongst which the Moscow Times, RIA Novosti, and Interfaks. All the changes that we noticed may be the result of a large military reorganization. The new callsign "MDZhB" is most probably the callsign of the new command in St Petersburg. The actual transmitter site is still near Povarovo.

Earlier this year President Dmitry Medvedev signed a decree in which a reorganization was announced which would reduce the number of military districts and the navy's fleets into four operational-strategic commands. The reorganization must be implemented before the end of this year.

The Moscow and Leningrad military districts merged on 1 September into the Western Military District (West Strategic Command) and includes the Northern and Baltic Fleets and special region Kaliningrad with HQ in St. Petersburg.

The North Caucasus Military District is now the South Military District (South Strategic Command) and includes the Black Sea Fleet. Headquartered in Rostov-on-Don. The command began operations on 1 October. The Caspian Flotilla will retain its independent status.

The Volga-Urals Military District and the western part of the Siberian Military District will be merged to form the Central Military District (Center Strategic Command). HQ in Yekaterinburg.

The remaining part of the Siberian Military District will be merged with the Far East Military District into the East Military District (East Strategic Command) and will include the Pacific Fleet. HQ in Khabarovsk.

So, what can we expect, radio wise?

1. The Buzzer (S28) belongs to the new West Strategic Command. A new callsign "MDZhB" has been introduced per 1 Sept. The old callsign "UVB-76 / UZB-76" (the old Moscow District callsign) has also been used in the first days but was not heard after that time.
2. The old Leningradsky District channel marker, the "Squeaky Wheel" / "Riabina" (S32) is however still on the air on 5473 (day) and 3828 kHz (night).
3. The pip (S30) is the channel marker of the South Strategic Command in Rostov-on-Don. Apart from the message format nothing has changed. Frequencies are 5448.0 kHz (day), 3756.0 kHz (night).
4. The marker of the Central Strategic Command in Yekaterinburg is "R" and callsign "Plavets-41". Frequencies are still 4325.9/5465.9 kHz.

S28 run down October:

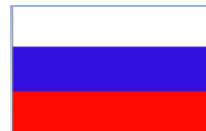
Oct.	UTC	Details
02	1255	Male voice interrupted by a female voice. MDZhB 29 723 Protoklaz 91 48 71 29 Proteska 66 21 59 78
03	1347	Male voice. MDZhB 98 340 Tropacin 41 34 60 65 Arhipelag 94 69 23 40
04	0826	Male voice. MDZhB 98 899 Arkanje 66 22 20 95
	0913	Male voice. MDZhB 06 375 Prizmatin 80 87 64 28
05	1328	Female voice. MDZhB 77 008 Spichnyj 00 20 55 53 Spek 75 32 94 93
06	0813	The buzzer is back but stopped after +/- 1630 UTC. It returned with a very weak signal at 2027 UTC. 1324 MDZhB 73 839 Prutianoj 63 85 99 71 Arun 08 35 35 98
07	1330	Male voice. MDZhB ... 1434 MDZhB 68 832 Priroda 15 76 95 38 1453 MDZhB 82 945 pribornyi 88 71 54 28 trehletok 00 45 29 47
08	0648	The buzzer stopped. Female voice. She spoke only a few words and then the buzzer came back, mixed with the voice after which she stopped. 1341 MDZhB 88 802 Viazovyj 78 81 57 15 Opruga 24 06 19 21
12	1336	МДЖБ 37 386 Дячик 26 12 48 75 MDZhB 37 386 Dyatsik 26 12 48 75
16	1505	MDZhB 38 875 Episkopija 20 11 49 20 Spona 59 31 55 74
17	1423	MDZhB 60 382 Aplanatizm 44 34 58 31 Troposfera 02 39 53 68 1442 MDZhB 24 727 Aplanatizm 44 34 58 31 Troposfera 02 39 53 68 1448 MDZhB 24 727 Aplanatizm 44 34 58 31 Troposfera 02 39 53 68
20	1731	мджб мджб 31 484 проказа 58 89 51 61 аройник 11 90 28 30 MDZhB MDZhB 31 484 prokaza 58 89 51 61 aroinik 11 90 28 30

Very interesting was WP3's log of 5096 kHz at 0558 UTC, 28-10 when he copied MDZhB on another freq than 4625 kHz. With the following messages: "xxx xxx MDZhB MDZhB 73008 grenok 1290 9459 k" and "xxx xxx MDZhB MDZhB 81344 areografiach 805 3533 xxx xxx"

Two older logs from Peter and Jim are mentioning the same callsign on 7632 kHz. A coincidence?

7632 kHz: "XXX XXX XXX MDZhB MDZhB MDZhB 92412 ZEBROWYJ 6617 2528 6617 2528 K", 1145 UTC, 31-08-2009. Net control station was 1WHG
7632 kHz: "xxx xxx MDZhB 98257 AWTOQETKA 9568 5373 K", 0752 UTC, 27-07-2009

S30 – The Pip



Two messages were reported by Hans. The recordings can be downloaded from the N&O website.

3756 kHz, 1859 UTC, 4 Oct.

"8S1Shch 70 058 Otiagchenije 84 86 46 21 Prijom"

3756 kHz, 1923 UTC, 4 Oct.

"8S1Shsc 56 510 Idrinec 39 29 37 36 Prijom"

Note: Shch is the Russian letter Ш

V24

T! from the Mohave Desert, California, USA, sent us his V24 & M94 report over September and October. Thanks for that, T! The logs can be found in the Logs Section.

"Howdy all,

It has been a while since I have done an M94 or V24 update, over 2 months in fact. Life just gets in the way of radio some times ;)

Several months back I reported that as of sometime around the first of the year both stations changed habits and some frequencies. I have a better grasp of that now. I also have a new and, at this time, accurate schedule.

Habits:

The first of the year date was a rough estimate. In fact the habits changed over a period of about 4 to 6 months from about September 2009 to about March 2010. For the most part shifts and changes after March 2010 appear to be along the levels seen prior to September 2009, occasional and scattered in nature.

V24 and M94 have indeed dropped all activity on known formerly used frequencies below 5715 kHz. For V24 the only known active frequencies are 5715, 6215, 6330, and 6730 kHz. For M94 and of the known frequencies only 5715 and 6330 kHz are used. These frequency changes are fairly significant in that several of the lower frequencies were known to be in use for many years, possibly decades, this would appear to have been a most uncharacteristic change.

As I reported last time M94 has greatly reduced activities, it is down to 12 transmissions a month. 4 each to 3 different ID's, 1017, 1014, and 935. All in either the 1300 or 1400 UTC time slots. 935 has replaced 815 and the occasional 958. This seems stable now with no changes in the last several months, however I would not be surprised to see more ID number change in the 1400 UTC 6330 kHz M94 transmission slots, the 5715 kHz, 1300 UTC slots appear extremely stable, with no changes in better than a year.

The 1620 UTC V24 time slots have mostly shifted to 1630 UTC, particularly for 6730 kHz transmissions. However, 1620 UTC is still used occasionally, but most often after what seems to be a botched or irregular 1600 UTC transmission. Pure conjecture here, but 1620 may primarily be being used as a "catch up" time slot or to deconflict slots that normally are sent at 1600 UTC. 1600 UTC seems to have the most time slot anomalies in the schedule. I am still working on it and it could be an anomaly of data, but it almost appears that a couple of time slots are used every other month, instead of every month. There does appear to still be at least one, 2 day, scheduled 1620 time time/day/freq slot used regularly.

One 1610 time slot was noted this past month, but that was after a definite problem with a 1600 transmission, so I suspect that was just an error. On average I see about 5 or 6 error or unexpected transmissions per month, not bad when you consider there are about 125 transmissions per month total.

Web Page:

I have updated both my V24 and M94 web pages to at least touch on the new changes and schedule. Eventually I will re-write both to reflect the current activities.

My V24 page:

http://token.radio.home.mchsi.com/numbers_station_v24.htm

My M94 page:

http://token.radio.home.mchsi.com/numbers_station_m94.htm

Schedule:

I have put together a new schedule for M94 and V24. Averaging it out to exclude error transmissions it appears more than 90% accurate each month. Using it I am generally able to set up and schedule my recordings weeks in advance.

V24 and M94 Schedule:

http://token.radio.home.mchsi.com/Sched_V2_Oct2010.JPG

History of all V24 and M94 receptions since January 1, 2010:

http://token.radio.home.mchsi.com/Sched_all_2010_Oct.JPG

The end of the month can be odd or confusing on the schedule. Since transmissions pretty much all fall in two-day pairs, there are transmissions scheduled after the 28th of the month, and the number of days in each month varies from 28 to 31, this can mean the end of the month might cut into a pair. In the 1500 time slot you will see that a 5715 kHz transmission appears to be listed for 28, 30, and 31

of the month. You will also see that there is a 1st of the month 1500 UTC, 5715 kHz, transmission listed. What this really means is that the last day of the month, regardless of date, will have a 1500 UTC, 5715 kHz, V24 transmission, and it's second day pair will be on the first day of the next month. The same thing happens in the 1530 time slot, but on 6215 kHz. However during the 1530 slot there can be conflicts with other frequencies (if the month has 28 or 29 days) and so on those months there may only be a one day transmission, on the first of the month, breaking the "every transmission is part of a two-day pair" rule.

VTN – Vietnamese Numbers

Another report from. This time about on VTN. See for the logs our Logs Section. Thanks T!

"It has been a while since I have reported on the Vietnamese numbers station (10255 kHz, USB, OM, Vietnamese, 5f). That is because while I have been recording it on a daily basis I have not looked at the recordings in over a month, I simply have not had the time. And when I did look at them yesterday I saw some odd activity.

My last report included up to August 31, 2010, so I will pick up on September 1, 2010.

From September 1, 2010, until September 14, 2010 the station did just what it has done for months. It sent the same 42 group message it had been sending since April 22, 2010, this message is 3 minutes and 29 seconds long. It sent three messages a day with the same timing trends it had been using for months.

September 14, 2010, was the last numbers transmission I heard from this station.

From September 15 to September 25, 2010, no transmissions were heard at my location. This 11 day gap is by far the longest I have seen since I started watching this station, the previous longest period of no reception was 3 days.

Starting on September 26, 2010, and right on scheduled time for the numbers to start, a tone was heard. This tone was a steady 970 Hz with no information on it at all, just a steady tone. The tone lasted 6 seconds longer than the 42 group message would have. At approximately the time the second 42 group message of the day would have started the tone again started, and it ran 6 seconds longer than the 42 group message would have been. At about the time the third and final 42 group message of the day would have started the tone again started, and it lasted 8 seconds longer than the 42 group message would have.

From then through October 5, 2010, if any transmission was seen it was the tone, and the tone closely mimicked the habits of the 42 group messages. The 42 group messages are either 3 minutes and 29 seconds, or 3 minutes and 30 seconds long, depending on when the second hand of the clock falls. The tones were between 3 minutes and 35 seconds and 3 minutes and 38 seconds long. As if the transmitter would have been turned on a couple of seconds before, and turned off

a couple of seconds after, the 42 group message audio would have been sent.

On October 6, 2010, the tone durations reduced to between 2 minutes and 29 seconds to 2 minutes and 31 seconds in length. All other habits remained the same. Still about the same spacing and still three transmissions a day. This lasted for 3 days worth of transmissions.

Today, October 11, 2010, the tone duration increased, going to about 3 minutes and 45 seconds in length. As I only have one day worth of samples, today's three transmissions, I do not know if this is going to be the average or not. All other actions remained the same, three transmissions, and about the same gaps between transmissions.

Tones of 950, 970, and 985 Hz have been observed on different days, but the tone is steady through a given day. This might be a transmitter settling on a slightly different frequency from day to day.

It is my opinion that the tones are being sent instead of the numbers transmission. As the tone is steady and contains no information I believe this might be a failure or operator error.

Further, the change in timing on October 6 and again on October 11 might indicate that a different message is being sent, or at least would be being sent if the audio were present."

MORSE STATIONS

MX - Russian Military beacons



Reported beacons and channel markers.

European Cluster Beacons: D, S, C, A

Asian Cluster Beacons: K, M

Channel markers: R - 4325.9 kHz

M18

M18 has moved to 3878.1 kHz in October. The station was logged by Alf on 28-10 with its typical time marker.

M21

Soviet Air Defence Forces
Voyska Protivo Vozdushnoy Oborony
Бойска ПВО Воyska PVO



Id 9: 4574, 7913.5 kHz

Id ?: 5201 kHz

M31

5370.0: CALORIE: French Air Force OM/FF voice mirror "weekdays, numbers 60-69, months".

11445.0: French Air Force, Narbonne "vvv vvv vvv de fdi22 fdi22 fdi22 ar"

M89 – Chinese military



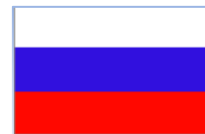
VVV Q2M Q2M Q2M DE NYZ NYZ	4860, 6840 kHz
V GKVZ GKVZ GKVZ DE Q7NW Q7NW	3297 kHz
V 7NPE 7NPE 7NPE DE QV5B QV5B	4225, 5500 kHz
V QPZM QPZM QPZM DE WOXN WOXN	3327, 4523, 5310 kHz
V JA3L JA3L JA3L DE UN2T UN2T	4532 kHz

M94

See V24.

VARIOUS MODES

M42 & X06



Russian Government / Intelligence

Peter has heard a number of stations that are transmitting in RUS-ARQ. The transmission usually starts with operator chat in Morse and/or in third shift Baudot mode using 50 baud and 500 Hz shift. After that the stations continue in Russian-ARQ with 100 baud and 500 Hz shift. The autocorrelation is 162 (73 data bits and 89 bits continuous space).

The stations are probably part of the M42 network (Russian Government and Intelligence) but what department we are actually hearing is still a mystery. Some say that the transmissions originate from the Russian IT and Telecommunications Ministry or from Transtelecom, which is 100% owned by the Russian Railways Ministry. I compiled the active frequencies from Peter's logs and other UDXF logs. This is the result for 2010 so far:

3172	
3300	
4540	RTW54 QSX 5225
4570	RZT76 with unid QSX to RHM2
4970	RFT6 Voronezh QSX 5325
5080	
5185	RYF2
5220	
5225	RVR39 QSX 4540
5325	RND79 Moscow QSX RFT6 on 4970 and QSX RBW on ???
5370	
5440	RWD59 Moscow
5855	
5895	
6795	
6830	Obninsk/Moscow
6865	
6935	
7625	
7630	RDP5 Kirov Kaloega
7635	
7695	
8079	
8190	RHJ Khabarovsk
9065	
9160	
10475	
10595	RKD48 Moscow
11025	RKV23 Tyumen QSX 12770
11500	RDD71 Moscow
12140	
12770	RGE31 QSX 11025
13915	UMN3 Serpukhov
18738.5	

Logs:

6935.0 0650 01-10 Russian Gov/Intel. Mode: RUS-ARQ
15828.0 1428 02-10 Mazielka. Sequence: 256134
16025.0 1438 02-10 Mazielka. Sequence: 156234
14650.0 1448 02-10 Mazielka. Sequence: 215346
13833.0 1855 05-10 Mazielka. Sequence: 246531
6992.0 1932 05-10 Russian Gov/Intel. Mode: MFSK-16 7.49Bd
5092.0 2014 05-10 Russian Gov/Intel. Mode: MFSK-16 7.49Bd
12224.0 1458 14-10 Mazielka. Sequence: 463125
9206.0 1235 16-10 Russian Gov/Mil. Mode: Baudot 50/500. "DE K4NT QSA3
QSA? QLP2 CFM QTC1 ZZC RYRYRY 921 124 16 1230 2415 ="
into 5F msg with =50= separator, cfm nil gru?."
11167.0 0932 17-10 Mazielka. Sequence: 121212
6831.0 0402 19-10 Russian Gov/Intel. Mode: Baudot 200/500
"00000+++++++162)5761"
7810.0 0610 19-10 Russian Gov."lkf lkf lkf qsy 5t65" Op-chat in Morse.
5137.0 0412 19-10 Russian Gov/Intel. Mode: Baudot 200/500
"00000+++++++162)5761"
6785.0 2120 20-10 Russian Gov/Intel. Mode: Baudot 50/500/e. "=50=,
=100=" separator and -cfm nil k- sent by the operator
9206.0 1307 21-10 Russian Gov/Intel. Mode: Baudot 50/500 + Morse.
"... 34044 54137 ... (5FGs). Switches to Morse: "CFM
NIL K. QSX 87843 QRX 87844 K. CFM A R. K4MT de NT9P
QSA3 QRU ? K. ZVP (QSV) K. BK QRV K. R 239 1314 (UTC)
QTC 1 ZZC K."
9206.0 1327 21-10 Russian Gov/Intel. Mode: Baudot 50/500 + Morse.
NT9P: "CFM NIL QRX 87862 QRX 87862 QRV. R 0_9 1333 K."
Continues same procedure, same calls-K4MT de NT9P.
Always QSA3, ZVP, QTC ZZC ... RTTY-Morse-RTTY-one
message each way. Still active at 1345 UTC.
7810.0 0542 22-10 Russian Gov. Start of (daily) tune up schedule using
F1A/F1B morse/500. At 0606 some FSK morse "v's" and
into ID 0610 with "lkf lkf lkf" followed by short
msgs in F1A/F1B morse/500, each block of data ends
with "k". Most likely duplex, other end of circuit
not known or Id'ed. Break fm 0619-0625, again into
msgs. At 0703 into short F1B/500 revs and start of
bcst of data.
16117.0 0923 25-10 Mazielka. Sequence: 463125
12224.0 0937 25-10 Mazielka. Sequence: 463125
9923.0 1449 25-10 Mazielka. Sequence: 463125
7635.0 0802 26-10 Russian Gov/Intel. c/s RWA50. Mode: Bee 50/500 idles,
then to MCW working an unknown station into RUS-ARQ
100bd
7565.0 1920 26-10 Russian Gov. Mode: F1B-RTTY/ITA2-75/500.
RY marker "KNA KNA KNA 1/200 (x3) RY...RY" into 5FGs
on link 50332 after "11100 50332 87439 26099 02009"
interrupted by "KNA KNA KNA RY..RY", ends with
OP-chat "QRU QRU SK SK"

OLO32

Bezpečnostní informační služba
Security Information Service



Mode: FEC 100/170

4855.35 1616 06-10
4859.35 1849 06-10
5185.35 1551 05-10
5734.35 1605 26-09
5841.35 1635 03-10
9385.35 0842 02-10
9166.35 1310 16-10
13406.35 1412 21-10

MILITARY STATIONS

M32

Russian/CIS/Ukrainian
Military SSB & CW Stations



- 18.1 Supreme High Command : "xxx RED4 RDL 95916 wennyj 7227 8086 k"
"xxx RED4 RDL 95916 34615 wennyj 7227 8086 k". RED4 = new
callsign, probably 37th Air Army (REA4 is believed to be 37th
Air Army HQ Moscow).
"xxx REU 56219 35115 piometriä 5150 1784 verdinnik 9358 3057"
"xxx RDL 10719 33094 avitaciä 3190 7942 k"
"xxx RKS 10188 taunchip 3766 8612 k"
- 3589.0 Russian Mil. Male voice 5FGs.
- 3595.0 Russian Mil. Male voice 5FGs.
- 3755.0 Russian Navy: RTS wkg UGU2, UGU9, RBN2.
- 3785.0 Russian Navy: UGU8 msg for UGU27.
Russian Navy: UGU8 wkg UGU23 and UGU25.
- 4115.0 Russian warship RJH41: "vvv rmp rmp de rjh41 qsa? QTC"
- 4471.0 Russian Mil NCS "OE9M" radio checks with PKCU, XYOY, 2DV2, ISTR
on 3969 kHz, CQ call=H7B5
- 4484.5 Russian Mil. RJK5 wkg RWZD
- 4508.0 Russian Mil "Gregory, Tatiana, Uri, Uri.." etc.
- 4609.0 Russian Mil: MR9U 65-group message to KRZ9. "MR9U 002 65 1 0025
002 = 071 = LVMII NXSWI ... PAPYR 683 K"

5028.5 Russian Navy: "RJE65 de RHY50 ZZD ?"

5096.0 Russian Mil, 0558 UTC, 28-10: "xxx xxx MDZhB MDZhB 73008 grenok 1290 9459 k", "xxx xxx MDZhB MDZhB 81344 areografiäch 805 3533 xxx xxx"

5106.0 Russian Mil: IW7Z comms check with at least 8YJB, O44Q, 6P7S.

6449.0 Russian Mil: RIT 5FG to RMLZ and "RMLZ de RIW QRR3 QDW4 844 OK ? k"

6521.5 Russian Navy: RFI35 wkg RCV (Black Sea Fleet HQ) "ZZD2 ZZD? k".

6779.0 Russian Mil. Z93Y clg L2CA

6852.0 Russian Mil. "DE CVMN 669 34 0813 669 = Z~I 386 ="

6994.0 Russian warship RHY73 wkg RIT (Northern Fleet HQ) "RIT de RHY73 QYT QSX 10756.5 k" & MPSK-12 on 10756.5 kHz; later "QYT4 QSX 7472 k".

6998.5 Russian Mil?: LJDP "IZ = PP = SOChI = NA = BATUMI = NA = BATUMI = WYShLO = WYShLO = SUDNO = SUDNO = SPIRIT = OF = AWENTURE = SPIRIT = OF = AWENTURE = UTschESTX = WW = SLUVBE = ZSL? k".

7080.0 Russian Mil. "RDL 22222 86093 81526 etc 5F K" "XXX REO 71721 22669 KULEK 48916101 k" Strings of cyrillic letters and "ZNN K"

7542.0 Ukrainian Mil: BZCN

7566.0 Russian Navy: "rip90 de rcv qtc 37 61 16 1535 3t7 - nawip 033 2121 karta ..."

7653.0 Russian Navy: "XXX XXX RDL RDL PODAROX 01 1315 280 35 1020 K XXX XXX"

7655.0 Russian Navy: "... DE RDL 57372 07048 K"

7657.0 Russian Navy: "... RDL RDL RDL 98364 10359 98364 10359 98364 10359 k"

7710.0 CIS Mil: STAROJ clg "sa Pjerwi xxxx (?) Staroj" (??) into short PSK/"CIS-MPSK12"/12x120Bd."standby

7813.0 Russian Mil?: PRAT wkg LKDW. Start of daily schedule with single "s" followed by "v v" 60 sec later. At 0645 into F1A fsk morse/500; "lkdw de prat" ... qsa4 qtc zzk ... " ending days schedule as usual with opchat; " r 518 t 653 nil sk"

Russian Mil?: PRAT wkg LKDW. After F1B CIS-75/500, A1A morse with end of daily contact with LKDW; "k r 398 t 652 k nil sk" LKDW not heard or duplex.

7815.0 Russian Mil: NCS RMW32 bcast strategic flash msg to collective

LR43, with request for technical check; "uuu xxx xxx lr43 lr43 00000 tehproverka 1111 2222 tehproverka 592" msg repeated 3x. Later confirm signal check with RMW44; "rmw44 rmw44 rmw44 de rmw32 rmw32 rpt k rmw32 zsa1 r k rmw32 zsa4 r k rmw32 zsa4 r k" and asks RMW36 for confirmation of received flash message; "rmw 36 rmw36 rmw36 de rmw32 rmw32 r xxx? k rmw36 rmw36 rmw36 de rmw32 rmw32 r xxx? k"

7861.0 Russian Mil. RAL2 QSA check with RHW2, QSA4 ZNN VA.

7963.0 Russian Mil. "ZSAN de E99S QTC ZZI. 297 27 5 2302 297 = ZZI 769 = BUWDO M M M M M PBVÄC ... R CYGC PTPWE 981 AR." 1540 UTC change for night frequency, radio check with XZ7N on 6958 kHz.

Russian Mil. "3DPL DE KZZF QRJ? QYT? ZZF"

8076.0 Russian Mil: RDL. Very long 5FG message, 110 groups ending ... 93267 05110 K"

8270.0 Russian Navy: "RCRE" USB Voice OM plain Russian message to "RIW"

8794.0 Russian Navy: "RIW" USB Voice YL plain Russian message to "RCRE"

8816.0 Russian Naval Air Transport 46169 wkg RJC48 (Sevastopol) "RJF94 RJC48 de 46169 QTC QAP XRRO 1811 rpt al k". 54376 wkg RJF94 and RJC38: "QQL XLPB 1444 QBG 6900 QRE XLAA 1538 rpt al k"

9068.0 Russian Mil. "UUU RDL RTL RDL 22222 49882 85463 396U1"

9145.0 Russian Navy: "VVV VVV R KW95 DE RIW QSA?"
Russian Navy: "RCIG DE RIW QSA? QTC K"

9183.0 Russian Mil: RTB7 clg "1414", sends ZSA? QSA 4 ZNN SK then off.

10164.0 Russian Mil. See Trond's report.

10543.0 Russian Navy RCV: BSF HQ Sevastopol "QTC 972 to coll. c/s RGX94 ...=nawip ... (warning parachute exercises in Ligurian Sea)"

10756.5 Russian Navy Northern Fleet HQ Severomorsk RIT wkg RHY73, RHY73 is on 6994 kHz.

10894.0 Russian Navy: RCV

11155.0 Russian Navy: RIT "xxx RKS 10188 taunchip 3766 8612 k". Msg is repeated by RIT, RKS is a NF collective c/s.

11362.0 Russian Air Force Net 78778 wkg Prosyolok, 76724 wkg Davlenie, Prosyolok.

12832.0 Russian strategic bcast, 0832, F1B/F1A fsk morse/200 strategic flash preamble in fsk morse followed by F1B T600 data, // 11139, 12741, 12832, 14411, 18107 and others, not // 10164

13400.0 Russian Mil. GFKZ clg IMOA

13402.0 Russian Mil. QQWA clg NI6W "162 19 4 1233 162 = 329 =" then into 5LG. Also "QQWA wkg MOAD.

14041.4 Russian Mil. "XXX XXX 54178 41424 TEZAURUS 1139 9654" "XXX XXX 59254 KRASNOBAR 3222 9453"

14211.0 Russian Mil. "RDL 22222 47814 etc, 5F K"

14411.0 General Staff VGK Moscow
 "xxx REU 77700 70225 denqik 7159 9506 k"
 "xxx REU 27793 55423 induizm 3272 2501 iremelex 1190 5730 k"
 "xxx RDL 41684 46155 ilek 3050 1245 k"

14664.0 Russian Mil. "XXX RDL 41684 46155 ILEK 3050 1245" followed by "XXX" and T-600

16112.0 Russian Mil: "XXX RLO RDL 26... PODSPORXE 2293 2435 K." RLO = Northern Fleet collective.
 "U U XXX RAC RDL 62626 17863 MEFENEZIN 4012 2099 K."

16345.0 Russian Mil: 30DS wkg 6NSI

We received two interesting reports from Trond.

"For a number of days there has been complementary bcasts to the regular HF strategic frequencies (10164, 11139, 12741, 12832, 14411, 18107 etc, etc). The frequency used was 10164 kHz. This frequency seems to be a multi user frequency, shared by Russian Naval air central station Moscow, RJF94, as well as CIS printer systems running 50 and 75 baud transmissions. When the station using the frequency begun 24/7 operation, the mode changed to T600 aka Bee36-50/200 as well a frequent fsk morse when bcasting 5fg- and strategic flash messages. ITU has some ideas that the ID of this station is RWS40, - and that it is located near Rybinsk in the Yaroslavl region around 39E 58N. Neither personal observations nor second source DF do not seem to confirm this though. Direction towards St. Petersburg for the transmitter qth seems more likely. The station did often transmit only very short preamble like data, every hh:08/18/28 etc. When these short transmissions on 10164 corresponded with regular strategic bcasts, the similarity was confirmed by listening to both transmissions using headphones and one bcast in each channel, L vs R "I/Q" style (low tech "aural signal analysis", - something for Maria to implement on her signal analyzer ?? :-)) When not transmitting data the channel rested on NON at 10163.9 kHz. Operation on 10164 ceased today 05/OCT/2010 at 0900 utc. 11139 also ceased // operation to other strategic frequencies at the same time. Even though our Russian friends have increased their activity in the arctic, I have a "feel" that these complementary transmission, was not related to any increased readiness state of the strategic naval forces. My personal opinion is that this was an exercise / war game, similar to what we often see on the P / RMP channels, when the General Staff bcast "RDL messages" (ie to collective naval strategic forces) on a regional and not national / global basis. The fact that one of the // frequencies, 11139 kHz, is a seldom used strategic frequency, (-

former monitoring show that it is only put to use during exercises), do strengthen the exercise explanation. 11139 is previously DF'ed by both ITU, (as well as by freelancers in the field), as origination from near 55:21N 34:30E This is close enough to be the transmitter facility of the 82nd separate special designation radio-technical brigade at Vyazma in the Smolensk oblast. The facility can be seen in great detail at 55.165614N 34.327367E using Google Earth. Mind though that the above transmitter site near Vyazma, is not the transmitter site in use for the regular strategic transmissions by the General Staff. I do not want to put gasoline on the fire to the discussion regarding all RDL transmissions as originating from "Smolensk". The main General Staff radio center, mil unit 73802, is located at Luhovitsy-3. The VERY large antenna field is clearly visible NW and SE of 55.002545N 38.921836E, using Google Earth.

LOGS: Russian strategic (exercise) bcast, 0628, F1B T600 aka Bee 36-50/200 regular short txm's at hh:m8, // to strat channels only at hh:08,28,48 (04/OCT/2010).

Russian strategic (exercise) bcast, 0806, F1B/F1A fsk morse/200 strategic flash preamble in fsk morse followed by F1B T600 data, short after 5fg msg to collective recipient RDL; "uuuuuu rdl rdl rdl 22133 45323 k", neither was // to strategic HF frequencies (04/OCT/2010).

Russian strategic (exercise) bcast, 0841, F1B/F1A fsk morse/200 strategic flash msg to collective recipient RDL; "xxx xxx rdl rdl 57741 62338 rezerwnyj 2656 8119 k" , not // to strategic HF frequencies, rpt of flash msg bcasted on 11139 and others at 0836 but now adressed to RDL(04/OCT/2010).

Russian strategic (exercise) bcast, 0844, F1B/F1A fsk morse/200 strategic flash msg using Cyrillic lettering to collective recipient RDL; "xxx xxx rdl rdl 31426 25423 kèö 2632 2541 k" neither // to strategic HF frequencies, nor rptd later on strategic frequencies (kèö = -.- ..--.. ---. = ??? in Cyrillic) (04/OCT/2010).

Russian strategic bcast, poss 82nd separate special designation radio-technical brigade Vyazma, Smolensk oblast, 0836, F1B/F1A fsk morse/200 strategic flash msg to collective recipient REU; "xxx xxx reu reu 57741 62338 rezerwnyj 2656 8119 k" , // 12741, 12832, 14411, 18107 and others, not // 10164, but same msg later adressed to RDL and bcasted on 10164 at 0841utc(04/OCT/2010).

Trond's second report covers a Russian military network where RMW32 is the Net Control Center.

Hello UDXF group

Some recent observations of the Russian "Prowerka" strategic flash broadcasts.

1. Mode is A1A morse
2. Cyrillic letters.
3. LR43 collective recipient, with at least seven individual players, where RMW32 is NCS.

Standard version of the Prowerka bcasts:

"TEHNIÖESKÄÄ PROWERKA" = TECHNICAL CHECK / CONTROL

```
xxx xxx lr43 lr43 tehniöeskaä prowerka 540
xxx xxx lr43 lr43 tehniöeskaä prowerka 540
xxx xxx lr43 lr43 tehniöeskaä prowerka 540
```

00000 msg format of the prowerka bcasts:

TEHPROWERKA = Technical check / control

uuu

```
xxx xxx lr43lr43 00000 tehprowerka 1111 2222 tehprowerka 592
xxx xxx lr43lr43 00000 tehprowerka 1111 2222 tehprowerka 592
xxx xxx lr43lr43 00000 tehprowerka 1111 2222 tehprowerka 592
```

Opchat format:

```
rmw 36 rmw36 rmw36 de rmw32 rmw32 r xxx? k
rmw36 rmw36 rmw36 de rmw32 rmw32 r xxx? k
```

Opchat format:

```
rmw44 rmw44 rmw44 de rmw32 rmw32 rpt k
rmw32 zsa1 r k rmw32 zsa4 r k rmw32 zsa4 r k
rmw32 zsa4 r k rmw32 zsa4 r k rmw32 zsa4 r k
```

Players in net:

RMW22, RMW32 (NCS), RMW36, RMW44, RMW46, RMW56, RMW58, RMD98, RMD99 (relation to the RMW net is unclear, but these two RMD stations do receive "prowerka" strategic messages from unid sender).

Observed frequency usage:

```
3700.0 RMD98, flash messages, not using the LR43 collective
        addressee, but addressed as this; "XXX XXX RMD98 RMD98
        TEHNITÖESKÄÄ PROWERKA 795".
5830.0 RMW32, calling / wkg RMW36, LR43 addressed flash msgs.
6491.0 RMW32 wkg unid in A1A at 0655utc
6836.0 RMW32, calling / wkg RMW56.
6860.0 RMD99, flash mgs, not using the LR43 collective
        addressee, but addressed as this; "XXX XXX RMD99 RMD99
        TEHNITÖESKÄÄ PROWERKA 795".
7060.0 RMW32 calling RMW48
7080.0 RMW32 calling / wkg RMW58
7149.0 RMW32 calling / wkg unid / (RKP56 ?)
7523.0 RMW32 calling / wkg RMW34, RMW36
7815.0 RMW32 calling / wkg RMW22 (weak in Europe), RMW36, RMW44
        (strong in Europe), RMW46, LR43 addressed flash messages
8136.0 RMW32 wkg duplex with RMW36, LR43 addressed flash
        messages. ITU suggests location for RMW32 in area of 55
        25N 35 12E.
```

10102.3 RMW32 calling / wkg RMW56. RMW32 very strong (S9+20dB) in central Europe, RMW56 not heard.

Location of the net players is still unid. But there are some clues;

1. RMW32 is strong to fair with fading around 07 UTC, indicates Moscow area.
2. ITU has the general idea that QTH for RMW32 is near 55:25N 35:12E. This could indicate the DoSC (former FAPSI) facility east of Jukhnov-1. Mil Unit 54 985, but DF is (still) not verified.
3. RMW56 not heard in (central) Europe.
4. RMW22 weak in Europe.
5. RMW44 strong in Europe.

Trond Jacobsen

UTILITY ROUND-UP

Polish Pip

A daily guest on 1812 kHz. Still no positive id. Most probably a Polish naval marker.

Unid Ukrainian net

5197 kHz 1559-1610 UTC, 5 October. Callsigns: URT51, URT52, URT56, URT58.

Activity: URT51 wkg URT52, URT52 wkg URT58, URT56 wkg URT58.

Logged by Bruno (BCI)

Unid 5435 kHz

Mode: CW

5435 kHz, 1745 UTC, 15-10, 4FG messages, cut numbers

5435 kHz, 1523 UTC, 16-10, Channel marker "au34567dnt" every 30 sec.

Driftnet beacons

1806.1 ND5

1806.8 2AEGH

1810.7 2AHAAH

1833.9 2AHAP

1847.0 NS7

1861.9 2ADKL

1864.8 GE0

Unid Indonesian Net

The unid Indonesian net on 14277.7 kHz is very active. The coded messages that are being passed are reportedly weather reports. I still have no idea who they are. Clues anyone?

Unid 3343 kHz

An unid station was reported by Attu on 3343 kHz, 1525 UTC, 31-10, CW: "MWKJ" transmits during two 10 minute periods each hour, 20-30 and 50-00 mins, occasional 5fg messages.

The station has been reported before but is still unidentified.

LOGS SECTION

3291	MX	Mode: CW Date/time: 27-9-2010, 1842 UTC Channel marker "P" Kaliningrad Contr: (BCI)
3297	M89	Mode: CW Date/time: 1-10-2010, 1410 UTC V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Fri) Contr: (JPL-HK)
3297	M89	Mode: CW Date/time: 8-10-2010, 2118 UTC V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Fri) Contr: (JPL-HK)
3297	M89	Mode: CW Date/time: 11-10-2010, 1418 UTC V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Mon) Contr: (JPL-HK)
3297	M89	Mode: CW Date/time: 15-10-2010, 1629 UTC V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Fri) Contr: (JPL-HK)
3297	M89	Mode: CW Date/time: 23-10-2010, 1636 UTC V GKVZ GKVZ GKVZ DE Q7NW Q7NW Contr: (JPL-HK)
3327	M89	Mode: CW Date/time: 8-10-2010, 2115 UTC V QPZM (x3) DE WOXN (x2) (Cont'd) (Fri) (//4523) Contr: (JPL-HK)
3327	M89	Mode: CW Date/time: 15-10-2010, 1627 UTC V QPZM (x3) DE WOXN (x2) (Cont'd) (Fri) //4523 Contr: (JPL-HK)
3327	M89	Mode: CW Date/time: 23-10-2010, 1632 UTC V QPZM QPZM QPZM DE WOXN WOXN Contr: (JPL-HK)
3756	S30	Mode: CW/USB Date/time: 4-10-2010, 1859 Pip voice msg Contr: (HS2)
3756	S30	Mode: CW/USB Date/time: 4-10-2010, 1923 Pip voice msg Contr: (HS2)
3756	S30	Mode: CW Date/time: 20-10-2010, 2122 UTC Pip Contr: (AB)
3810	M01c	Mode: CW Date/time: 9-10-2010, 1830 UTC 333 81386 81386 333 81386 81386 111 000 Contr: (FN)
3828.9	S32	Mode: USB Date/time: 20-10-2010, 2122 UTC Squeaky Wheel Contr: (AB)
3878.1	M18	Mode: CW Date/time: 28-10-2010, 2216 UTC

Russian Mil. Time marker "... 0516 0517 0517 ..
0517 0518 0518 ..." Contr: (Alf)

3881 M51 Mode: CW Date/time: 17-10-2010, 2122 UTC
NR 06 O 14 23:25:47 1982 = GVARC RZXDI ...
Spurious output on 3883.2 kHz. Contr: (MPJ)

3881 M51 Mode: CW Date/time: 20-10-2010, 2146 UTC
In progress ... OZMJG ZUNUC = NR 42 O 20
23:49:34 1982 = UEJFJ FRPHU ... Contr: (MPJ)

3881 M51 Mode: CW Date/time: 23-10-2010, 0700 UTC
in progress Contr: (ML4)

4225 M89 Mode: CW Date/time: 1-10-2010, 1432 UTC
V 7NPE (x3) DE QV5B (x2) (Cont'd) (Fri) //5500
Contr: (JPL-HK)

4225 M89 Mode: CW Date/time: 8-10-2010, 2117 UTC
V 7NPE (x3) DE QV5B (x2) (Cont'd) (Fri) Contr:
(JPL-HK)

4225 M89 Mode: CW Date/time: 11-10-2010, 1417 UTC
V 7NPE (x3) DE QV5B (x2) (Cont'd) (Mon) //5500
Contr: (JPL-HK)

4225 M89 Mode: CW Date/time: 15-10-2010, 1627 UTC
V 7NPE (x3) DE QV5B (x2) (Cont'd) (Fri) //5500
Contr: (JPL-HK)

4225 M89 Mode: CW Date/time: 23-10-2010, 1634 UTC
V 7NPE 7NPE 7NPE DE QV5B QV5B Contr: (JPL-
HK)

4270.0 E10 Mode: USB Date/time: Sat 2-10-2010, 2100 UTC
Weak signal. Contr: (PanDR)

4325.9 MX Mode: CW Date/time: 20-10-2010, 2123 UTC
Marker "R" Contr: (AB)

4331 M22 Mode: CW Date/time: 15-10-2010, 2325 UTC
VVV de 4XZ 4XZ 4XZ Contr: (Dip)

4331 M22 Mode: CW Date/time: 30-10-2010, 1916 UTC
Israeli Navy Haifa: 4XZ. 5LG messages Contr:
(ML4)

4454 S21 Mode: USB Date/time: 7-10-2010, 1850 UTC
i.p., ends at 1855z: 198 198 34 34 000 Contr:
(FN)

4478.0 M08a Mode: CW Date/time: Sat 16-10-2010, 1100 UTC
5f cut nums: 77052 77102 51762 Good sig.
Contr: (westli)

4497 E07 Mode: AM Date/time: Thu 7-10-2010, 2050 UTC
584 1 Contr: (HFD)

4512 S06 Mode: AM Date/time: Sat 16-10-2010, 1935 UTC
405 0 Contr: (HFD)

4523 M89 Mode: CW Date/time: 1-10-2010, 1431 UTC
V QPZM (x3) DE WOXN (x2) (Cont'd) (Fri) Contr:
(JPL-HK)

4523 M89 Mode: CW Date/time: 8-10-2010, 2116 UTC
V QPZM (x3) DE WOXN (x2) (Cont'd) (Fri) (//3327)
Contr: (JPL-HK)

4523 M89 Mode: CW Date/time: 11-10-2010, 1416 UTC
V QPZM (x3) DE WOXN (x2) (Cont'd) (Mon) Contr:
(JPL-HK)

4523 M89 Mode: CW Date/time: 15-10-2010, 1626 UTC
V QPZM (x3) DE WOXN (x2) (Cont'd) (Fri) //3327
Contr: (JPL-HK)

4532 M89 Mode: CW Date/time: 1-10-2010, 1411 UTC

		V JA3L (x3) DE UN2T (x2) (Cont'd) (Fri) Contr: (JPL-HK)
4532	M89	Mode: CW Date/time: 8-10-2010, 2119 UTC V JA3L (x3) DE UN2T (x2) (Cont'd) (Fri) Contr: (JPL-HK)
4532	M89	Mode: CW Date/time: 11-10-2010, 1419 UTC V JA3L (x3) DE UN2T (x2) (Cont'd) (Mon) Contr: (JPL-HK)
4532	M89	Mode: CW Date/time: 15-10-2010, 1630 UTC V JA3L (x3) DE UN2T (x2) (Cont'd) (Fri) Contr: (JPL-HK)
4532	M89	Mode: CW Date/time: 23-10-2010, 1638 UTC V JA3L JA3L JA3L DE UN2T UN2T Contr: (JPL- HK)
4557.7	MX	Mode: CW Date/time: 17-10-2010, 2145 UTC Beacon "D" Contr: (MPJ)
4557.9	MX	Mode: CW Date/time: 17-10-2010, 2145 UTC Beacon "S" Contr: (MPJ)
4558.2	MX	Mode: CW Date/time: 31-10-2010, 1910 UTC Beacon "F" Vladivostok Contr: (AtB)
4571	M01	Mode: CW Date/time: 7-10-2010, 1944 UTC 477 334 334 33 33 = = 88162 88162 20286 20286 ... 10672 10672 = = 334 334 33 33 0 0 0. Contr: (MPJ)
4574	M21	Mode: CW Date/time: 4-10-2010, 1935 UTC Air Defense PVO. Morse radar tracking data, in between ID = 9 Contr: (FN)
4606	M01b	Mode: CW Date/time: 7-10-2010, 1820 UTC 5FGs rptd, aborted at 1822z, EOT Contr: (FN)
4625	S28	Mode: USB Date/time: 2-10-2010, 1255 UTC Male voice. Contr:
4625	S28	Mode: USB Date/time: 3-10-2010, 1347 UTC Male voice. Contr:
4625	S28	Mode: USB Date/time: 4-10-2010, 0826 UTC Male voice. Contr:
4625	S28	Mode: USB Date/time: 4-10-2010, 0913 UTC Male voice. Contr: (AB)
4625	S28	Mode: USB Date/time: 5-10-2010, 1328 UTC Voice message Contr: (RP)
4625	S28	Mode: USB Date/time: 6-10-2010, 0813 UTC The buzzer is back! Contr: (RP)
4625	S28	Mode: USB Date/time: 6-10-2010, 1324 UTC Voice message Contr:
4625	S28	Mode: USB Date/time: 6-10-2010, 1614 UTC Buzzer. Stopped at ca 1630 and returned at 2027 UTC Contr: (AB)
4625	S28	Mode: USB Date/time: 7-10-2010, 1330 UTC Male voice. Contr: (AB)
4625	S28	Mode: USB Date/time: 7-10-2010, 1434 UTC Male voice. Contr: (AB)
4625	S28	Mode: USB Date/time: 7-10-2010, 1453 UTC Male voice. Contr:
4625	S28	Mode: USB Date/time: 8-10-2010, 0648 UTC The buzzer stopped. Female voice. She spoke only a few words and than the buzzer came back Contr: (AB)
4625	S28	Mode: USB Date/time: 8-10-2010, 1341 UTC

MDZhB MDZhB 88 802 VYAZOVYI 78 81 57 15
 OPRUGA 24 06 19 21 Contr:

4625 S28 Mode: USB Date/time: 16-10-2010, 1505 UTC
 MDZhB 38 875 Episkopija 20 11 49 20 Spona 59
 31 55 74. No buzzer Contr: (RP)

4625 S28 Mode: USB Date/time: 17-10-2010, 1423 UTC
 MDZhB 60 382 Aplanatizm 44 34 58 31
 Troposfera 02 39 53 68. No buzzer Contr: (RP)

4625 S28 Mode: USB Date/time: 17-10-2010, 1442 UTC
 MDZhB 24 727 Aplanatizm 44 34 58 31
 Troposfera 02 39 53 68. No buzzer Contr: (RP)

4625 S28 Mode: USB Date/time: 17-10-2010, 1448 UTC
 MDZhB 24 727 Aplanatizm 44 34 58 31
 Troposfera 02 39 53 68. No buzzer Contr: (RP)

4625 S28 Mode: USB Date/time: 19-10-2010, 2004 UTC
 UBV76: Normal activity Contr: (MPJ)

4625 S28 Mode: USB Date/time: 20-10-2010, 1731 UTC
 MDZhB MDZhB 31 484 prokaza 58 89 51 61
 aroinik 11 90 28 30 Contr: (RSru)

4625 S28 Mode: CW Date/time: 20-10-2010, 2122 UTC
 Buzzer Contr: (AB)

4627 M21 Mode: CW Date/time: 3-10-2010, 1502 UTC
 =99 strings Id 8 Contr: (AB)

4787 G06 Mode: AM Date/time: Mon 11-10-2010, 1700 UTC
 892 0 Contr: (HFD)

4855.35 OLO32 Mode: FEC 100/170 Date/time: 6-10-2010, 1616
 Czech Intel Contr: (BCI)

4859.35 OLO32 Mode: FEC 100/170 Date/time: 6-10-2010, 1849
 Czech Intel Contr: (BCI)

4860 M89 Mode: CW Date/time: 1-10-2010, 1420 UTC
 VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri)
 //6840 Contr: (JPL-HK)

4860 M89 Mode: CW Date/time: 8-10-2010, 0024 UTC
 VVV (x3) Q2M (x3) DE NYZ (x2) (In Progress) QSA
 ? K (Fri) (//6840) Contr: (JPL-HK)

4860 M89 Mode: CW Date/time: 8-10-2010, 2120 UTC
 VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri)
 Contr: (JPL-HK)

4860 M89 Mode: CW Date/time: 11-10-2010, 1420 UTC
 VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K
 (Mon) //6840 Contr: (JPL-HK)

4860 M89 Mode: CW Date/time: 15-10-2010, 1622 UTC
 VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri)
 //6840 Contr: (JPL-HK)

4860 M89 Mode: CW Date/time: 15-10-2010, 1719 UTC
 NYZ clg Q2M //6840 kHz Contr: (AT)

4860 M89 Mode: CW Date/time: 31-10-2010, 1619 UTC
 Q2M de NYZ //6840 kHz Contr: (AtB)

4909 E11 Mode: USB Date/time: Sat 2-10-2010, 1405 UTC
 267/00 Contr: (HFD)

5020 M01 Mode: CW Date/time: 5-10-2010, 2000 UTC
 463 463 463 669 669 3T 3T = = 30 * repeated 5F
 groups = = 669 669 3T 3T TTT Contr: (PPA)

5020 M01 Mode: CW Date/time: 19-10-2010, 2010 UTC
 615 615 615 ... 33612 33612 ... 42827 42827 = =
 615 615 30 30 0 0 0. Contr: (MPJ)

5092 M42 Mode: MFSK-16 7.49Bd Date/time: 5-10-2010,

		Russian Gov/intel Contr: (linkz)
5092	XPA	Mode: AM Date/time: Thu 28-10-2010, 2010 msg Contr: (HFD)
5127	S06	Mode: AM Date/time: Mon 18-10-2010, 1905 UTC 349 0 Contr: (HFD)
5127	S06	Mode: AM Date/time: Thu 21-10-2010, 1905 349 0 Contr: (HFD)
5137	M42	Mode: Baudot 200/500 Date/time: 19-10-2010, Russian Gov/Intel. "00000+++++++162)5761" Contr: (ALF)
5146	E07a	Mode: AM Date/time: Thu 28-10-2010, 0430 188 0 Contr: (HFD)
5153.7	MX	Mode: CW Date/time: 19-10-2010, 2022 UTC Beacon "D" Contr: (MPJ)
5153.7	MX	Mode: CW Date/time: 27-10-2010, 2024 UTC Beacon "D" Contr: (WP3)
5164	E07a	Mode: AM Date/time: Wed 6-10-2010, 2020 UTC 815 0 Contr: (HFD)
5185.35	OLO32	Mode: FEC 100/170 Date/time: 5-10-2010, 1551 Czech Intel Contr: (BCI)
5201	M21	Mode: CW Date/time: 22-10-2010, 2018 UTC PVO. Radar data with time strings Contr: (PPA)
5214	M12	Mode: CW Date/time: Wed 6-10-2010, 2120 UTC 826 0 Contr: (HFD)
5291	M12	Mode: CW Date/time: Mon 4-10-2010, 0400 UTC 284 1 Contr: (HFD)
5310	M89	Mode: CW Date/time: 3-10-2010, 1310 UTC V QPZM QPZM QPZM DE WOXN WOXN Contr: (AB-HK)
5345	M23	Mode: CW Date/time: 3-10-2010, 1612 UTC 555 (R10) (Sun) //8030 Contr: (JPL-SE)
5345	M23	Mode: CW Date/time: 7-10-2010, 1612 UTC 137 (R10) (Thu) //8030 Contr: (JPL-AUT)
5345	M23	Mode: CW Date/time: 11-10-2010, 1612 UTC 137 (R10) (Mon) //8030 Contr: (JPL-AUT)
5345	M23	Mode: CW Date/time: 15-10-2010, 1514 UTC 137 (In Progress/Cont'd) (Fri) //8030 Contr: (JPL- AUT)
5345	M23	Mode: CW Date/time: 15-10-2010, 1612 UTC 137 (R10) (Fri) //8030 Contr: (JPL-AUT)
5345	M23	Mode: CW Date/time: 17-10-2010, 1512 UTC 137 (R10) (Sun) (//8030) (GlobalTuners Sweden) JPL Contr: (JPL-SE)
5345	M23	Mode: CW Date/time: 17-10-2010, 1612 UTC 137 (R10) (Sun) (//8030) (GlobalTuners Sweden) JPL Contr: (JPL-SE)
5345	M23	Mode: CW Date/time: 19-10-2010, 1612 UTC 137 (R10) (Tue) //8030 kHz Contr: (JPL-SE)
5370	M31	Mode: USB Date/time: 2-10-2010, 0438 UTC CALORIE: French Air Force. Voice mirror. "weekdays, numbers 60-69, months". Contr: (ALF)
5384	M12	Mode: CW Date/time: Mon 4-10-2010, 0500 UTC 379 0 Contr: (HFD)
5401	M51	Mode: CW Date/time: 22-10-2010, 0754 UTC NR 66 0 22 09:54:32..... Contr: (RP2)
5402	M51	Mode: CW Date/time: 5-10-2010, 2039 UTC French MIL stn (1982 timestamp) Contr: (linkz)

5412	G06	Mode: AM Date/time: Mon 4-10-2010, 1802 UTC 892 0 start at 1802Z Contr: (HFD)
5417.0	V02a	Mode: AM Date/time: Fri 22-10-2010, 0200 UTC SSYL atencion: 41531 63611 67232 Good sig. Contr: (westli)
5428	S06	Mode: AM Date/time: Sat 23-10-2010, 1930 UTC 405 0 Contr: (HFD)
5442	G06	Mode: AM Date/time: Fri 15-10-2010, 1930 UTC 947-214/5=78123 Contr: (HFD)
5442	G06	Mode: AM Date/time: 29-10-2010, 1930 UTC 947 214 15 17823 ... Contr: (FN)
5464	M24	Mode: CW Date/time: 13-10-2010, 1928 UTC 537 537 -> 438 438 15 15 = = 5F message = = 438 438 15 15 TTTTT Contr: (PPA)
5475	M01	Mode: CW Date/time: 19-10-2010, 1800 UTC 463 463 463 810 810 30 30 = = into repeated 5F msg; second tone 1840Hz higher Contr: (PPA)
5500	M89	Mode: CW Date/time: 1-10-2010, 1408 UTC V 7NPE (x3) DE QV5B (x2) (Cont'd) (Fri) //4225 Contr: (JPL-HK)
5500	M89	Mode: CW Date/time: 11-10-2010, 1417 UTC V 7NPE (x3) DE QV5B (x2) (Cont'd) (Mon) //4225 Contr: (JPL-HK)
5500	M89	Mode: CW Date/time: 15-10-2010, 1627 UTC V 7NPE (x3) DE QV5B (x2) (Cont'd) (Fri) //4225 Contr: (JPL-HK)
5500	M89	Mode: CW Date/time: 23-10-2010, 1634 UTC V 7NPE 7NPE 7NPE DE QV5B QV5B Contr: (JPL- HK)
5715	M94	Mode: MCW Date/time: Wed 1-9-2010, 1300 1017 Contr: (token)
5715	M94	Mode: MCW Date/time: Thu 2-9-2010, 1300 UTC 1017 Contr: (token)
5715	M94	Mode: MCW Date/time: Sun 12-9-2010, 1400 UTC 1014 Contr: (token)
5715	M94	Mode: MCW Date/time: Mon 13-9-2010, 1400 1014 Contr: (token)
5715	M94	Mode: MCW Date/time: Wed 22-9-2010, 1400 1014 Contr: (token)
5715	M94	Mode: MCW Date/time: Thu 23-9-2010, 1400 UTC 1014 Contr: (token)
5715	M94	Mode: MCW Date/time: Fri 24-9-2010, 1300 UTC 1017 Contr: (token)
5715	M94	Mode: MCW Date/time: Sat 25-9-2010, 1300 1017 Contr: (token)
5715	M94	Mode: MCW Date/time: Sat 2-10-2010, 1300 1017 Contr: (token)
5715	M94	Mode: MCW Date/time: Tue 12-10-2010, 1400 1014 Contr: (token)
5715	M94	Mode: MCW Date/time: Wed 13-10-2010, 1400 1014 Contr: (token)
5715	M94	Mode: MCW Date/time: Fri 22-10-2010, 1400 UTC 1014 Contr: (token)
5715	M94	Mode: MCW Date/time: Sat 23-10-2010, 1400 1014 Contr: (token)
5715	M94	Mode: MCW Date/time: Sun 24-10-2010, 1300 1017 Contr: (token)

5715	M94	Mode: MCW Date/time: Mon 25-10-2010, 1300 1017 Contr: (token)
5715	V24	Mode: AM Date/time: Wed 1-9-2010, 1500 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Fri 3-9-2010, 1300 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Sat 4-9-2010, 1300 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Sat 11-9-2010, 1530 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Sun 12-9-2010, 1200 UTC Windows shut down sound after finis Contr: (token)
5715	V24	Mode: AM Date/time: Sun 12-9-2010, 1530 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Wed 15-9-2010, 1600 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Thu 16-9-2010, 1600 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Sat 18-9-2010, 1300 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Sun 19-9-2010, 1300 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Tue 21-9-2010, 1500 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Fri 24-9-2010, 1200 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Sat 25-9-2010, 1200 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Tue 28-9-2010, 1530 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Tue 28-9-2010, 1600 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Wed 29-9-2010, 1530 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Wed 29-9-2010, 1600 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Thu 30-9-2010, 1500 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Fri 1-10-2010, 1500 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Sun 3-10-2010, 1300 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Mon 4-10-2010, 1300 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Mon 11-10-2010, 1530 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Tue 12-10-2010, 1200 Contr: (token)
5715	V24	Mode: AM Date/time: Tue 12-10-2010, 1530 Contr: (token)
5715	V24	Mode: AM Date/time: Wed 13-10-2010, 1200 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Fri 15-10-2010, 1600 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Sat 16-10-2010, 1600 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Mon 18-10-2010, 1300 UTC

		Contr: (token)
5715	V24	Mode: AM Date/time: Tue 19-10-2010, 1300 Contr: (token)
5715	V24	Mode: AM Date/time: Wed 20-10-2010, 1500 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Sun 24-10-2010, 1200 Contr: (token)
5715	V24	Mode: AM Date/time: Mon 25-10-2010, 1200 UTC Contr: (token)
5715	V24	Mode: AM Date/time: Thu 28-10-2010, 1530 Contr: (token)
5715	V24	Mode: AM Date/time: Thu 28-10-2010, 1600 Contr: (token)
5715	V24	Mode: AM Date/time: Fri 29-10-2010, 1530 UTC Contr: (token)
5717	V24	Mode: AM Date/time: Fri 29-10-2010, 1600 UTC Contr: (token)
5734.35	OLO32	Mode: FEC 100/170 Date/time: 26-9-2010, 1605 Czech Intel Contr: (BCI)
5737	E11	Mode: USB Date/time: Tue 5-10-2010, 1025 349/00 Contr: (HFD)
5762.0	V02a	Mode: AM Date/time: Sat 16-10-2010, 0200 UTC Used web radio, unsure about signal. 10sec recording availab Contr: (BKS)
5762.0	V02a	Mode: AM Date/time: Sat 16-10-2010, 0200 UTC SSYL atencion: 03771 97721 27381 Weak sig. QRM3 Contr: (westli)
5779	E11	Mode: USB Date/time: Thu 7-10-2010, 0605 unreadable Contr: (HFD)
5779	S06	Mode: AM Date/time: Thu 14-10-2010, 1900 349 0 Contr: (HFD)
5782	E07	Mode: AM Date/time: Tue 19-10-2010, 0700 795 1-653/121= 51843 Contr: (HFD)
5784	S06	Mode: AM Date/time: Mon 4-10-2010, 1900 UTC 349 0 Contr: (HFD)
5784	S06	Mode: AM Date/time: Thu 7-10-2010, 1900 UTC 349 0 Contr: (HFD)
5784	S06	Mode: AM Date/time: 7-10-2010, 1900 UTC 349 00000 Contr: (FN)
5784	S06	Mode: AM Date/time: Thu 28-10-2010, 1900 349 0 Contr: (HFD)
5800	M08a	Mode: CW Date/time: 28-10-2010, 0600 UTC in progress Contr: (TG2)
5800.0	M02a	Mode: CW Date/time: Sat 23-10-2010, 0600 UTC Very good to strong signal, moderate interference Contr: (AnNYC)
5800.0	M08a	Mode: AM Date/time: Fri 1-10-2010, 0600 UTC ADGDN WGAAA GNIAN; Usual interference, good signal, minimal Contr: (AnNYC)
5800.0	M08a	Mode: AM Date/time: Sat 2-10-2010, 0600 UTC fading 0-4, morse code on AM..... clear and loud, my first o Contr: (Fiz)
5800.0	M08a	Mode: AM Date/time: Thu 14-10-2010, 0600 Good signal, usual local interference (sorry, no message IDs Contr: (AnNYC)
5800.0	M08a	Mode: MCW Date/time: Thu 14-10-2010, 0600 Avg. sig (similar to WWV 5MHz). Barely audible

over noise. Contr: (BKS)

5800.0 M08a Mode: AM Date/time: Fri 15-10-2010, 0559 UTC
[0556Z] SK01 Tx; [0559Z] M08a `IUIRN UWIDA
GWARA` Contr: (AnNYC)

5800.0 M08a Mode: MCW Date/time: Mon 25-10-2010, 0600
A2A. Missed callups, IP. S5 on Grundig G3.
Contr: (BKS)

5800.0 M08a Mode: CW Date/time: Tue 26-10-2010, 0559
GNRUN NDWIA UTWGN(?); faint signal, moderate
interference Contr: (AnNYC)

5800.0 M08a Mode: CW Date/time: Thu 28-10-2010, 0558
Started on 5898KHz at 0558Z; Fair signal, strong
interference Contr: (AnNYC)

5800.0 M08a Mode: MCW Date/time: Fri 29-10-2010, 0600 UTC
Good signal (S4.5 indoors on Grundig G3). Missed
callups. Contr: (BKS)

5800.0 M08a Mode: MCW Date/time: Sat 30-10-2010, 0600
Caught IP. Good (S5) signal with fading. Contr:
(BKS)

5800.0 SK01 Mode: RDFT Date/time: Wed 27-10-2010, 0518
Heard data burst. S7 on Grundig G3. Contr: (BKS)

5800.0 SK01 Mode: RDFT Date/time: Wed 27-10-2010, 0700
Heard data burst. S7 on Grundig G3. Contr: (BKS)

5800.0 SK01 Mode: RDFT Date/time: Wed 27-10-2010, 0705
Expected on 5810KHz at 0700Z; Tx at 0708Z,
0713Z, 0718Z, 0720 Contr: (AnNYC)

5800.0 V02a Mode: AM Date/time: Sat 2-10-2010, 0006 UTC
Contr: (Fiz)

5800.0 V02a Mode: AM Date/time: Mon 4-10-2010, 0300 UTC
SSYL atencion: Very weak sig.
QRM/N-5 Contr: (westli)

5805 S06s Mode: AM Date/time: Tue 5-10-2010, 1240 UTC
278 Contr: (HFD)

5814 M12 Mode: CW Date/time: Wed 6-10-2010, 2100 UTC
826 0 Contr: (HFD)

5815 G11 Mode: USB Date/time: Sat 9-10-2010, 1305 UTC
299/00 Contr: (HFD)

5815 S11a Mode: USB Date/time: Wed 13-10-2010, 0950
221/00 Contr: (HFD)

5831 X06 Mode: USB Date/time: 14-10-2010, 2151 UTC
Mazielka. Sequence: 164532 Contr: (linkz)

5836 E07 Mode: AM Date/time: Thu 7-10-2010, 2030 UTC
584 1 Contr: (HFD)

5836 E07 Mode: AM Date/time: Wed 13-10-2010, 2030 UTC
584 0 Contr: (HFD)

5838 X06 Mode: USB Date/time: 14-10-2010, 2151 UTC
Mazielka. Sequence: 463125 Contr: (linkz)

5841.35 OLO32 Mode: FEC 100/170 Date/time: 3-10-2010, 1635
Czech Intel Contr: (BCI)

5846 E07a Mode: AM Date/time: Thu 28-10-2010, 0450
188 0 Contr: (HFD)

5855 S11a Mode: USB Date/time: Fri 1-10-2010, 0855 UTC
484/00 Contr: (HFD)

5864 E07a Mode: AM Date/time: Wed 6-10-2010, 2000 UTC
815 0 Contr: (HFD)

5880.0 V02a Mode: AM Date/time: Sat 23-10-2010, 0700 UTC
strong with some fading,+20 Contr: (CCNV)

5880.0	V2	Mode: AM Date/time: Sun 17-10-2010, 0700 clear,some fading, +20 to +30. Did not end with ",Final,Final Contr: (CCNV)
5883	V02a	Mode: AM Date/time: 1-10-2010, 0708 UTC sp yl numbers Contr: (ML4)
5883	V02a	Mode: AM Date/time: 1-10-2010, 0720 UTC attencion sp yl numb Contr: (ML4)
5883	V02a	Mode: CW Date/time: 28-10-2010, 0700 UTC in progress Contr: (TG2)
5883.0	V02a	Mode: AM Date/time: Fri 1-10-2010, 0700 UTC Atencion 17861 15272 24771; Headers 29319 73048, 80486 0318 Contr: (AnNYC)
5883.0	V02a	Mode: AM Date/time: Sat 2-10-2010, 0700 UTC SSYL: VG sig. Caught late. Contr: (westli)
5883.0	V02a	Mode: AM Date/time: Sat 2-10-2010, 0700 UTC Atencion 10732 13112 51042; Headers 01703 024*8, 70052 363* Contr: (AnNYC)
5883.0	V02a	Mode: AM Date/time: Sat 2-10-2010, 0700 UTC Good signal. S4 on my Panasonic DR48. Contr: (PanDR)
5883.0	V02a	Mode: AM Date/time: Sat 2-10-2010, 0700 UTC Good signal. S4 on my Panasonic DR48. Contr: (PanDR)
5883.0	V02a	Mode: AM Date/time: Thu 14-10-2010, 0658 Atencion 71012 22872 58652; Headers ***** ***** **** Contr: (AnNYC)
5883.0	V02a	Mode: AM Date/time: Fri 15-10-2010, 0659 UTC Atencion 73662 38871 34202; Headers 40208 11474, 22426 2038 Contr: (AnNYC)
5883.0	V02a	Mode: AM Date/time: Fri 15-10-2010, 0800 UTC Expected on 5898KHz; Atencion 73662 38871 34202; Contr: (AnNYC)
5883.0	V02a	Mode: AM Date/time: Sun 17-10-2010, 0700 Nice and strong, but inaudible over noise. In progress. Contr: (BKS)
5883.0	V02a	Mode: AM Date/time: Sat 23-10-2010, 0700 UTC Atencion 73602 57461 04501; Headers 04587 01376, 22024 1474 Contr: (AnNYC)
5883.0	V02a	Mode: AM Date/time: Mon 25-10-2010, 0700 UTC S3 sig on Grundig G3. Barely audible over noise. Contr: (BKS)
5883.0	V02a	Mode: AM Date/time: Tue 26-10-2010, 0659 Atencion 78121 61122 18371; Headers ***** 85118 2744 Contr: (AnNYC)
5883.0	V02a	Mode: AM Date/time: Tue 26-10-2010, 0700 Very good signal. S9 on Panasonic DR48. Contr: (PanDR)
5883.0	V02a	Mode: AM Date/time: Thu 28-10-2010, 0658 Atencion 63832 12221 64161; Headers *2237 50**8, 04338 761* Contr: (AnNYC)
5883.0	V02a	Mode: AM Date/time: Fri 29-10-2010, 0700 UTC Atencion 22632 22281 01852. Interference from 5900, used LSB Contr: (BKS)
5883.0	V02a	Mode: AM Date/time: Fri 29-10-2010, 0700 UTC Very good signal. S9 on Panasonic DR48. Contr: (PanDR)

5883.0	V02a	Mode: AM Date/time: Sat 30-10-2010, 0700 UTC Atencion 26451 63732 21581. Good (S7) with fading to unreada Contr: (BKS)
5892	XPA	Mode: AM Date/time: Thu 28-10-2010, 1950 msg Contr: (HFD)
5898.0	M02a	Mode: CW Date/time: Sat 23-10-2010, 0500 UTC In progress; Good signal, moderate interference Contr: (AnNYC)
5898.0	M08a	Mode: AM Date/time: Fri 1-10-2010, 0500 UTC ADGDN WGAAA GNIAN; Severe interference Contr: (AnNYC)
5898.0	M08a	Mode: MCW Date/time: Mon 4-10-2010, 0500 Overpowers QRN. Way past S9, but deep fades. Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Tue 5-10-2010, 0500 UTC Very strong (S9). Also heard on Virginia web-radio with near Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Tue 5-10-2010, 0500 UTC 5f cut nums: 34701 45801 62811 Good sig. Contr: (westli)
5898.0	M08a	Mode: MCW Date/time: Thu 7-10-2010, 0500 UTC 5f cut nums: 26542 52761 44191 Good sig. Contr: (westli)
5898.0	M08a	Mode: MCW Date/time: Sun 10-10-2010, 0500 Super strong, RDF says it is south of here. S9 + no static. Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Mon 11-10-2010, 0500 5f cut nums: 74262 57632 30801 Good sig. Contr: (westli)
5898.0	M08a	Mode: MCW Date/time: Mon 11-10-2010, 0500 Very strong sig. 18wpm, DNRRR NNTUN TADTI heard. Fades. Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Tue 12-10-2010, 0500 5f cut nums: 02132 15671 33682 Good sig. QRM - periodic wa Contr: (westli)
5898.0	M08a	Mode: MCW Date/time: Thu 14-10-2010, 0500 Very strong sig. 18wpm, RDNRR NWUIR heard near 0530z. Fades. Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Thu 14-10-2010, 0500 5f cut nums: 00231 15761 74761 Good sig. Contr: (westli)
5898.0	M08a	Mode: MCW Date/time: Fri 15-10-2010, 0500 UTC Unusually weak and fading today. Only ~S5. Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Sat 16-10-2010, 0500 Weaker than normal. Also heard in Reston VA receiver. Heard Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Sat 16-10-2010, 0500 5f cut nums: Good sig. Up late IP. Contr: (westli)
5898.0	M08a	Mode: MCW Date/time: Sun 17-10-2010, 0500 Strong but inaudible over noise. Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Mon 18-10-2010, 0500 Never past S1. Inaudible. Possibly due to radio defects. Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Tue 19-10-2010, 0500 Weak sig, possibly due to S7 noise. Contr: (BKS)

5898.0	M08a	Mode: MCW Date/time: Thu 21-10-2010, 0500 5f cut nums: Good sig. Up late IP. Contr: (westli)
5898.0	M08a	Mode: MCW Date/time: Thu 21-10-2010, 0500 Weak and fades. Lost in noise, but emerged later. Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Fri 22-10-2010, 0500 UTC No beeps heard as of 0528z. Carrier up around 0510z. Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Sat 23-10-2010, 0500 5f cut nums: 33771 08841 67831 Good sig. Contr: (westli)
5898.0	M08a	Mode: MCW Date/time: Sat 23-10-2010, 0500 Nice and weak. S3 on Grundig G5. Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Sun 24-10-2010, 0500 Very strong (S7 on Grundig G3) and static free. Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Mon 25-10-2010, 0500 5f cut nums: 55051 27402 03082 Good sig. Contr: (westli)
5898.0	M08a	Mode: MCW Date/time: Mon 25-10-2010, 0500 Strong (S5 on Grundig G3) and static-y, Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Tue 26-10-2010, 0500 5f cut nums: 82641 23571 40582 Good sig. Contr: (westli)
5898.0	M08a	Mode: MCW Date/time: Tue 26-10-2010, 0500 Moderate signal (S3 on Grundig G3) and clear with sync det. Contr: (BKS)
5898.0	M08a	Mode: CW Date/time: Tue 26-10-2010, 0500 Faint signal, heavy interference, unintelligible copy Contr: (AnNYC)
5898.0	M08a	Mode: MCW Date/time: Thu 28-10-2010, 0500 5f cut nums: 53841 60251 83122 Good sig. Contr: (westli)
5898.0	M08a	Mode: MCW Date/time: Thu 28-10-2010, 0500 Very strong signal (S9+ on Grundig G3). In Progress. A2A Contr: (BKS)
5898.0	M08a	Mode: CW Date/time: Thu 28-10-2010, 0524 In progress; Good signal, strong interference, Little crosst Contr: (AnNYC)
5898.0	M08a	Mode: MCW Date/time: Fri 29-10-2010, 0500 UTC Very strong signal (S9+ on Grundig G3). In Progress. A2A Contr: (BKS)
5898.0	M08a	Mode: MCW Date/time: Sat 30-10-2010, 0500 Caught at EOT, started late. Contr: (BKS)
5898.0	SK01	Mode: RDFT Date/time: Fri 15-10-2010, 0459 Started off with M08a (as expected) Contr: (AnNYC)
5898.0	SK01	Mode: RDFT Date/time: Wed 27-10-2010, 0559 Expected M08a; Tx at 0559Z, 0604Z, 0609Z, 0614Z Contr: (AnNYC)
5898.0	V02a	Mode: AM Date/time: Fri 1-10-2010, 0800 UTC Atencion 17861 15272 24771; Headers 29319 73048, 80486 0318 Contr: (AnNYC)
5898.0	V02a	Mode: AM Date/time: Sat 2-10-2010, 0800 UTC Atencion 10732 13112 51042; Headers 51551

		00165, 63134 3*** Contr: (AnNYC)
5898.0	V02a	Mode: AM Date/time: Sat 2-10-2010, 0800 UTC SSYL: VG sig. Caught late. Contr: (westli)
5898.0	V02a	Mode: AM Date/time: Thu 14-10-2010, 0759 Atencion 71012, 22872, 58652; Headers 35522 64558, 00060 14 Contr: (AnNYC)
5898.0	V02a	Mode: AM Date/time: Fri 15-10-2010, 0811 UTC Atencion 73662 38871 34202; Headers 40208 11474, 53471 2570 Contr: (AnNYC)
5898.0	V02a	Mode: AM Date/time: Sat 23-10-2010, 0800 UTC Atencion 73602 57461 04501; Fair signal drowned out by extr Contr: (AnNYC)
5898.0	V02a	Mode: AM Date/time: Tue 26-10-2010, 0759 Atencion 78121 61122 18371; Headers 41070 *0105, 05511 0425 Contr: (AnNYC)
5898.0	V02a	Mode: AM Date/time: Tue 26-10-2010, 0800 Good signal, some fading. S6 on Panasonic DR48. Contr: (PanDR)
5898.0	V02a	Mode: AM Date/time: Thu 28-10-2010, 0757 Atencion 63832 12221 64161; Headers ***** 48668 5160 Contr: (AnNYC)
5900.0	M08a	Mode: MCW Date/time: Thu 28-10-2010, 0600 Extr. strong (S9+ outdoors on G3) and very clear. Missed cal Contr: (BKS)
5900.0	V02a	Mode: AM Date/time: Sun 24-10-2010, 0800 right on time, strong sig +20 Contr: (CCNV)
5930.0	SK01	Mode: RDFT Date/time: Sat 2-10-2010, 0930 UTC Strong interference, weak signal, usual crosstalk Contr: (AnNYC)
5947.0	SK01	Mode: RDFT Date/time: Sat 2-10-2010, 0900 UTC Expected, Tx probably buried under Spanish- speaking religious station Contr: (AnNYC)
5947.0	SK01	Mode: RDFT Date/time: Thu 28-10-2010, 0859 Faint signal overpowered by strong [SSB v. AM] interference Contr: (AnNYC)
6215	V24	Mode: AM Date/time: Wed 1-9-2010, 1530 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Fri 3-9-2010, 1400 UTC Windows shutdown sound after finish Contr: (token)
6215	V24	Mode: AM Date/time: Sat 4-9-2010, 1400 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Sat 4-9-2010, 1500 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Sun 5-9-2010, 1500 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Fri 10-9-2010, 1600 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Sun 12-9-2010, 1330 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Wed 15-9-2010, 1530 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Thu 16-9-2010, 1500 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Thu 16-9-2010, 1530 UTC Contr: (token)

6215	V24	Mode: AM Date/time: Fri 17-9-2010, 1500 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Sat 18-9-2010, 1400 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Sun 19-9-2010, 1400 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Sun 26-9-2010, 1600 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Mon 27-9-2010, 1330 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Tue 28-9-2010, 1330 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Wed 29-9-2010, 1230 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Sat 2-10-2010, 1500 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Sun 3-10-2010, 1400 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Sun 3-10-2010, 1500 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Mon 4-10-2010, 1400 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Mon 4-10-2010, 1500 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Tue 5-10-2010, 1500 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Sun 10-10-2010, 1500 Contr: (token)
6215	V24	Mode: AM Date/time: Sun 10-10-2010, 1600 Contr: (token)
6215	V24	Mode: AM Date/time: Mon 11-10-2010, 1330 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Mon 11-10-2010, 1500 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Mon 11-10-2010, 1600 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Tue 12-10-2010, 1330 Contr: (token)
6215	V24	Mode: AM Date/time: Sat 16-10-2010, 1500 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Sun 17-10-2010, 1500 Contr: (token)
6215	V24	Mode: AM Date/time: Mon 18-10-2010, 1400 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Mon 18-10-2010, 1500 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Tue 19-10-2010, 1400 Contr: (token)
6215	V24	Mode: AM Date/time: Tue 19-10-2010, 1500 Contr: (token)
6215	V24	Mode: AM Date/time: Tue 26-10-2010, 1500 Contr: (token)
6215	V24	Mode: AM Date/time: Tue 26-10-2010, 1600 Contr: (token)
6215	V24	Mode: AM Date/time: Wed 27-10-2010, 1330 UTC Contr: (token)
6215	V24	Mode: AM Date/time: Wed 27-10-2010, 1500 UTC

		Contr: (token)
6215	V24	Mode: AM Date/time: Thu 28-10-2010, 1330 Contr: (token)
6215	V24	Mode: AM Date/time: Sun 31-10-2010, 1530 Contr: (token)
6250.0	XSL	Mode: USB Date/time: Sun 31-10-2010, 1430 Slot Machine underneath North Korea broadcast Contr: (CU)
6330	M94	Mode: MCW Date/time: Fri 10-9-2010, 1400 UTC 935 Contr: (token)
6330	M94	Mode: MCW Date/time: Sat 11-9-2010, 1400 935 Contr: (token)
6330	M94	Mode: MCW Date/time: Sun 26-9-2010, 1400 UTC 935 Contr: (token)
6330	M94	Mode: MCW Date/time: Mon 27-9-2010, 1400 935, broken audio with drop outs Contr: (token)
6330	M94	Mode: MCW Date/time: Sun 10-10-2010, 1400 935, broken audio Contr: (token)
6330	M94	Mode: MCW Date/time: Mon 11-10-2010, 1400 not copied, probably 935, broken audio Contr: (token)
6330	M94	Mode: MCW Date/time: Tue 26-10-2010, 1400 935 Contr: (token)
6330	M94	Mode: MCW Date/time: Wed 27-10-2010, 1400 935 Contr: (token)
6330	V24	Mode: AM Date/time: Fri 3-9-2010, 1330 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sat 4-9-2010, 1330 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sun 5-9-2010, 1400 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Mon 6-9-2010, 1400 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Tue 7-9-2010, 1430 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Wed 8-9-2010, 1430 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Fri 10-9-2010, 1530 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Fri 10-9-2010, 1620 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sat 11-9-2010, 1600 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sun 12-9-2010, 1600 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Mon 13-9-2010, 1600 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sat 18-9-2010, 1330 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sun 19-9-2010, 1330 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Mon 20-9-2010, 1400 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Tue 21-9-2010, 1400 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Wed 22-9-2010, 1430 UTC Contr: (token)

6330	V24	Mode: AM Date/time: Thu 23-9-2010, 1430 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Thu 23-9-2010, 1600 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Fri 24-9-2010, 1530 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sat 25-9-2010, 1530 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sun 26-9-2010, 1610 UTC format, odd start time Contr: (token)
6330	V24	Mode: AM Date/time: Tue 28-9-2010, 1200 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Wed 29-9-2010, 1200 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sun 3-10-2010, 1330 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Mon 4-10-2010, 1330 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Tue 5-10-2010, 1400 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Wed 6-10-2010, 1400 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Fri 8-10-2010, 1430 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sat 9-10-2010, 1530 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sun 10-10-2010, 1530 Contr: (token)
6330	V24	Mode: AM Date/time: Sun 10-10-2010, 1630 Contr: (token)
6330	V24	Mode: AM Date/time: Mon 11-10-2010, 1620 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Tue 12-10-2010, 1600 Contr: (token)
6330	V24	Mode: AM Date/time: Wed 13-10-2010, 1600 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Mon 18-10-2010, 1330 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Tue 19-10-2010, 1330 Contr: (token)
6330	V24	Mode: AM Date/time: Wed 20-10-2010, 1400 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Thu 21-10-2010, 1400 Contr: (token)
6330	V24	Mode: AM Date/time: Fri 22-10-2010, 1430 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Fri 22-10-2010, 1600 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sat 23-10-2010, 1430 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sat 23-10-2010, 1600 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Sun 24-10-2010, 1530 Contr: (token)
6330	V24	Mode: AM Date/time: Mon 25-10-2010, 1530 UTC Contr: (token)
6330	V24	Mode: AM Date/time: Fri 29-10-2010, 1200 UTC

		Contr: (token)
6433	E11	Mode: USB Date/time: Sun 10-10-2010, 0915 127/00 Contr: (HFD)
6433	E11	Mode: USB Date/time: Sun 17-10-2010, 0915 126/36 Contr: (HFD)
6730	V24	Mode: AM Date/time: Sun 5-9-2010, 1430 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Sun 5-9-2010, 1530 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Sun 5-9-2010, 1630 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Mon 6-9-2010, 1300 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Mon 6-9-2010, 1430 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Mon 6-9-2010, 1530 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Mon 6-9-2010, 1630 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Tue 7-9-2010, 1300 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Wed 8-9-2010, 1600 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Thu 9-9-2010, 1600 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Fri 10-9-2010, 1330 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Mon 13-9-2010, 1530 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Tue 14-9-2010, 1530 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Wed 15-9-2010, 1430 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Thu 16-9-2010, 1430 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Sun 19-9-2010, 1630 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Mon 20-9-2010, 1630 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Tue 21-9-2010, 1530 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Wed 22-9-2010, 1530 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Thu 23-9-2010, 1330 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Fri 24-9-2010, 1330 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Fri 24-9-2010, 1600 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Sun 26-9-2010, 1530 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Tue 28-9-2010, 1300 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Tue 5-10-2010, 1430 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Wed 6-10-2010, 1430 UTC Contr: (token)

6730	V24	Mode: AM Date/time: Fri 8-10-2010, 1600 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Sat 9-10-2010, 1330 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Sat 9-10-2010, 1600 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Sun 10-10-2010, 1330 Contr: (token)
6730	V24	Mode: AM Date/time: Thu 14-10-2010, 1300 Contr: (token)
6730	V24	Mode: AM Date/time: Fri 15-10-2010, 1300 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Fri 15-10-2010, 1430 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Sat 16-10-2010, 1430 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Tue 19-10-2010, 1630 Contr: (token)
6730	V24	Mode: AM Date/time: Wed 20-10-2010, 1630 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Fri 22-10-2010, 1300 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Sat 23-10-2010, 1300 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Sat 23-10-2010, 1330 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Sun 24-10-2010, 1330 Contr: (token)
6730	V24	Mode: AM Date/time: Sun 24-10-2010, 1600 Contr: (token)
6730	V24	Mode: AM Date/time: Mon 25-10-2010, 1600 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Wed 27-10-2010, 1300 UTC Contr: (token)
6730	V24	Mode: AM Date/time: Thu 28-10-2010, 1300 Contr: (token)
6768.0	V02a	Mode: AM Date/time: Mon 4-10-2010, 0400 UTC SSYL atencion: 11674 45312 17811 Weak sig. QRM/N Contr: (westli)
6768.0	V02a	Mode: AM Date/time: Mon 11-10-2010, 0400 UTC SSYL atencion: sounds like xmtr problems Contr: (westli)
6768.0	V02a	Mode: AM Date/time: Sat 16-10-2010, 0100 UTC SSYL atencion: 03771 97721 27381 Good sig. Contr: (westli)
6768.0	V02a	Mode: AM Date/time: Sat 16-10-2010, 0101 UTC Never passed S0. Barely audible. Caught IP. Recording availa Contr: (BKS)
6768.0	V02a	Mode: AM Date/time: Sat 23-10-2010, 0100 UTC SSYL atencion: 07062 01262 67131 Weak sig. Contr: (westli)
6774	G06	Mode: AM Date/time: Mon 18-10-2010, 0800 UTC 215 0 Contr: (HFD)
6784	M12	Mode: CW Date/time: Mon 4-10-2010, 0520 UTC 379 0 Contr: (HFD)
6785	M42	Mode: Baudot 50/500/e Date/time: 20-10-2010, (=50=, =100= separator) and -cfm nil k- sent from

operator Contr: (linkz)

6802	M12	Mode: CW Date/time: Wed 6-10-2010, 1720 UTC 463 1 Contr: (HFD)
6802	M12	Mode: CW Date/time: Tue 12-10-2010, 1620 463 1 Contr: (HFD)
6823	M51	Mode: CW Date/time: 6-10-2010, 0230 UTC FAV221 with callup and announcement, then into "Lecion 24" and into 5LG tfc Contr: (Imp)
6825	M51	Mode: CW Date/time: 2-10-2010, 0654 UTC FAV22: CSTEI morse training station. "VVV VVV VVV DE FAV22 FAV22 FAV22 QLH 3881/6825 KHZ" Contr: (CK)
6825	M51	Mode: CW Date/time: 15-10-2010, 0603 UTC French Mil, CW trainging. BT NR 74 O 15 08:0? ??? ??? ?? BT .. Contr: (Jon-FL)
6825.0	M51	Mode: AM Date/time: Sun 3-10-2010, 0840 UTC good signal Contr: (Fiz)
6831	M42	Mode: Baudot 200/500 Date/time: 19-10-2010, Russian GovIntel. "00000+++++++162)5761" Contr: (ALF)
6840	M89	Mode: CW Date/time: 1-10-2010, 1420 UTC VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //4860 Contr: (JPL-HK)
6840	M89	Mode: CW Date/time: 8-10-2010, 0024 UTC VVV (x3) Q2M (x3) DE NYZ (x2) (In Progress) QSA ? K (Fri) (//4860) Contr: (JPL-HK)
6840	M89	Mode: CW Date/time: 15-10-2010, 1622 UTC VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //4860 Contr: (JPL-HK)
6840	M89	Mode: CW Date/time: 15-10-2010, 1719 UTC NYZ clg Q2M //4860 kHz Contr: (AT)
6840	M89	Mode: CW Date/time: 31-10-2010, 1619 UTC Q2M de NYZ //4860 kHz Contr: (AtB)
6840.0	E10	Mode: USB Date/time: Sat 2-10-2010, 2030 UTC Weak signal but readable. Contr: (PanDR)
6845	S06	Mode: AM Date/time: Mon 11-10-2010, 2115 UTC 397 0 Contr: (HFD)
6854.0	M08a	Mode: CW Date/time: Thu 28-10-2010, 2200 Extremely weak, slightly above noise floor. Far too weak to Contr: (BKS)
6855.0	V02a	Mode: AM Date/time: Mon 4-10-2010, 0300 UTC Super weak, S0. QRN plentiful. Contr: (BKS)
6855.0	V02a	Mode: AM Date/time: Mon 4-10-2010, 0300 UTC SSYL atencion: 84271 65822 Very weak sig. QRM/N-4 Contr: (westli)
6855.0	V02a	Mode: AM Date/time: Mon 11-10-2010, 0300 UTC SSYL atencion: sounds like xmtr problems Contr: (westli)
6867	XPA	Mode: AM Date/time: Tue 12-10-2010, 1440 msg Contr: (HFD)
6872	S06	Mode: AM Date/time: Sat 2-10-2010, 1605 UTC 864 0 Contr: (HFD)
6872	S06	Mode: AM Date/time: Sat 23-10-2010, 1605 UTC 864-109/38=34778 Contr: (HFD)
6891	M12	Mode: CW Date/time: Mon 4-10-2010, 0420 UTC 284 1 Contr: (HFD)
6904	M12	Mode: CW Date/time: Mon 4-10-2010, 1940 UTC

		257 1 Contr: (HFD)
6904	M12	Mode: CW Date/time: 14-10-2010, 1940 UTC
		257 1 8524 56 60789 Contr: (FN)
6904.0	M12	Mode: CW Date/time: Thu 7-10-2010, 1940 UTC
		257 1 9128 54 77534 32905 78219 ... 39404 000
		000 Contr: (CG)
6935	M42	Mode: RUS-ARQ 100/500 Date/time: 1-10-2010, Russian Gov/Intel Contr: (BCI)
6977	M03	Mode: CW Date/time: Tue 5-10-2010, 0955 UTC
		786/00 Contr: (HFD)
6982	E07	Mode: AM Date/time: Tue 19-10-2010, 0720
		795 1 Contr: (HFD)
6992	M42	Mode: MFSK-16 7.49Bd Date/time: 5-10-2010, Russian Gov/intel Contr: (linkz)
6992	XPA	Mode: AM Date/time: Fri 29-10-2010, 1930 UTC
		msg Contr: (HFD)
7038.9	MX	Mode: CW Date/time: 3-10-2010, 1205 UTC
		Beacon "S" Contr: (AB)
7039	MX	Mode: CW Date/time: 3-10-2010, 1205 UTC
		Beacon "C" Contr: (AB)
7088.1	MX	Mode: CW Date/time: 24-10-1020, 1912 UTC
		Defective beacon "F" sending "UU2 " Contr: (IARUMS)
7462	XPA	Mode: AM Date/time: Tue 5-10-2010, 1940 UTC
		msg Contr: (HFD)
7462	XPA	Mode: AM Date/time: Thu 7-10-2010, 1940 UTC
		msg Contr: (HFD)
7467	XPA	Mode: AM Date/time: Tue 12-10-2010, 1420
		msg Contr: (HFD)
7469	E11	Mode: USB Date/time: Tue 5-10-2010, 0825
		469/00 Contr: (HFD)
7491	M12	Mode: CW Date/time: Mon 4-10-2010, 0440 UTC
		284 1 Contr: (HFD)
7516	E07	Mode: AM Date/time: Thu 7-10-2010, 2010 UTC
		584 1-620/59=12355 Contr: (HFD)
7516	E07	Mode: AM Date/time: Wed 13-10-2010, 2010 UTC
		584 0 Contr: (HFD)
7565	M42	Mode: Baudot 75/500 Date/time: 26-10-2010, Russian Gov. Mode: F1B-RTTY/ITA2-75/500. RY marker "KNA KNA KNA 1/200 (x3) RY...RY" into 5
		Contr: (Alf)
7582	E07	Mode: AM Date/time: Tue 19-10-2010, 0740
		795 1 Contr: (HFD)
7635	M42	Mode: Bee 50/500 CW R Date/time: 26-10-ussian Gov/Intel. c/s RWA50. Mode: Bee 50/500 idles, then to MCW working an unknown statio
		Contr: (Imp)
7680	E10	Mode: AM Date/time: 2-10-2010, 1647 UTC
		in progress Contr: (BCI)
7772	E11	Mode: USB Date/time: Wed 13-10-2010, 0850
		534/00 Contr: (HFD)
7810	M42	Mode: CW Date/time: 19-10-2010, 0610 UTC
		Russian Gov."lkf lkf lkf qsy 5t65" Op-chat in Morse.
		Contr: (TJ)
7810	M42	Mode: Baudot CW R Date/time: 22-10-ussian Gov. Start of (daily) tune up schedule using
		F1A/F1B morse/500. At 0606 some FSK mo

		Contr: (TJ)
7833	S06	Mode: AM Date/time: Sat 9-10-2010, 1600 UTC 864-109/38=34778 Contr: (HFD)
7840	M89	Mode: CW Date/time: 11-10-2010, 1420 UTC VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) //4860 Contr: (JPL-HK)
7913.5	M21	Mode: CW Date/time: 14-10-2010, 0650 UTC PVO ID 9: =99?1051?9????? and tracking results Contr: (FN)
7913.5	M21	Mode: CW Date/time: 17-10-2010, 0552 UTC 17986881476452 -99?952?9????? - 17986881476553 Contr: (WP3)
7931	M12	Mode: CW Date/time: Mon 4-10-2010, 1920 UTC 257 1 Contr: (HFD)
7931	M12	Mode: CW Date/time: 11-10-2010, 1920 UTC 257 1 5311 54 89641... Contr: (FN)
7931	M12	Mode: CW Date/time: 14-10-2010, 1920 UTC 257 1 8524 56 60789 Contr: (FN)
7931.0	M12	Mode: CW Date/time: Thu 7-10-2010, 1920 UTC 257 1 9128 54 77534 32905 78219 ... 39404 000 000 Contr: (CG)
7943	E07	Mode: AM Date/time: Mon 4-10-2010, 1940 UTC 229 1 Contr: (HFD)
7943	E07?	Mode: AM Date/time: 20-10-2010, 1941 UTC OM/EE "229 229 229 1" into 5FGs after "485 485 28 // 485 485 28". Contr: (ALF)
8009.0	M08a	Mode: CW Date/time: Mon 4-10-2010, 2300 UTC 5f cut nums: 08381 34342 80012 Weak sig. Contr: (westli)
8009.0	M08a	Mode: CW Date/time: Wed 6-10-2010, 2300 UTC 5f cut nums: 65471 47601 11481 Very weak sig. IDs question Contr: (westli)
8030	M23	Mode: CW Date/time: 3-10-2010, 1612 UTC 555 (R10) (Sun) //5345 Contr: (JPL-SE)
8030	M23	Mode: CW Date/time: 7-10-2010, 1612 UTC 137 (R10) (Thu) //5345 Contr: (JPL-AUT)
8030	M23	Mode: CW Date/time: 8-10-2010, 1612 UTC 137 (R10) (Fri) Contr: (JPL)
8030	M23	Mode: CW Date/time: 9-10-2010, 1612 UTC 137 (R10) (Fri) Contr: (JPL)
8030	M23	Mode: CW Date/time: 11-10-2010, 1612 UTC 137 (R10) (Mon) //5345 Contr: (JPL-AUT)
8030	M23	Mode: CW Date/time: 12-10-2010, 1612 UTC 137 (R10) (Tue) (N/H on //5345) JPL Contr: (JPL)
8030	M23	Mode: CW Date/time: 14-10-2010, 1512 UTC 137 (R10) (Thu) Contr: (JPL-AUT)
8030	M23	Mode: CW Date/time: 14-10-2010, 1612 UTC 137 (R10) (Thu) Contr: (JPL-AUT)
8030	M23	Mode: CW Date/time: 15-10-2010, 1514 UTC 137 (In Progress/Cont'd) (Fri) //5345 Contr: (JPL-AUT)
8030	M23	Mode: CW Date/time: 15-10-2010, 1612 UTC 137 (R10) (Fri) //5345 Contr: (JPL-AUT)
8030	M23	Mode: CW Date/time: 17-10-2010, 1512 UTC 137 (R10) (Sun) (//5345) (GlobalTuners Sweden) JPL Contr: (JPL-SE)
8030	M23	Mode: CW Date/time: 17-10-2010, 1612 UTC

		137 (R10) (Sun) (//5345) (GlobalTuners Sweden)
		JPL Contr: (JPL-SE)
8030	M23	Mode: CW Date/time: 19-10-2010, 1612 UTC
		137 (R10) (Tue) //5345 kHz Contr: (JPL-SE)
8030	M23	Mode: CW Date/time: 28-10-2010, 1602 UTC
		11111 (R10) (Thu) Contr: (JPL)
8047	M12	Mode: CW Date/time: Wed 6-10-2010, 1700 UTC
		463 1 Contr: (HFD)
8047	M12	Mode: CW Date/time: Tue 12-10-2010, 1600
		463 1 Contr: (HFD)
8062	XPA	Mode: AM Date/time: Thu 7-10-2010, 1920 UTC
		msg Contr: (HFD)
8091	G11	Mode: USB Date/time: Mon 4-10-2010, 0935 UTC
		275/00 Contr: (HFD)
8096.0	M08a	Mode: CW Date/time: Fri 8-10-2010, 1400 UTC
		5f cut nums: 21541 85121 85672 Weak sig.
		Contr: (westli)
8096.0	M08a	Mode: CW Date/time: Mon 11-10-2010, 1400 UTC
		5f cut nums: 55141 43161 85621 Weak sig.
		Contr: (westli)
8096.0	M08a	Mode: CW Date/time: Thu 14-10-2010, 1400
		5f cut nums: 42551 47082 28101 Good sig.
		Contr: (westli)
8096.0	M08a	Mode: CW Date/time: Fri 15-10-2010, 1400 UTC
		5f cut nums: 54131 26022 0264. Good sig.
		QRM4 Contr: (westli)
8096.0	M08a	Mode: CW Date/time: Fri 22-10-2010, 1400 UTC
		5f cut nums: 32682 31042 17232 Good sig.
		Contr: (westli)
8096.0	M08a	Mode: CW Date/time: Mon 25-10-2010, 1400 UTC
		5f cut nums: 64032 04671 68712 Good sig.
		Contr: (westli)
8096.0	M08a	Mode: CW Date/time: Fri 29-10-2010, 1400 UTC
		5f cut nums: 20462 50471 64631 Very weak sig.
		Contr: (westli)
8105	S06s	Mode: AM Date/time: Wed 13-10-2010, 1240 UTC
		967-804/5 Contr: (HFD)
8116	M12	Mode: CW Date/time: Thu 7-10-2010, 1840 UTC
		124 1 Contr: (HFD)
8116.0	M12	Mode: CW Date/time: Thu 7-10-2010, 1840 UTC
		124 1 2560 77 47033 38723 96515 ... 91958 000
		000 Contr: (CG)
8123	E07	Mode: AM Date/time: Sun 24-10-2010, 1740
		441-276/50 (?) weak Contr: (HFD)
8135.0	M08a	Mode: CW Date/time: Fri 1-10-2010, 2300 UTC
		5f cut nums: 74452 72571 58442 Weak sig.
		Contr: (westli)
8135.0	M08a	Mode: CW Date/time: Tue 12-10-2010, 2300
		5f cut nums: 78622 21451 30871 VG sig. Contr:
		(westli)
8135.0	M08a	Mode: CW Date/time: Thu 14-10-2010, 2300
		5f cut nums: 70252 76751 00782 Weak sig.
		Contr: (westli)
8135.0	M08a	Mode: CW Date/time: Thu 21-10-2010, 2300
		5f cut nums: 31461 53541 30412 Weak sig.
		Contr: (westli)
8135.0	M08a	Mode: CW Date/time: Fri 22-10-2010, 2300 UTC

		5f cut nums: Good sig. Up late, caught 1 Contr: (westli)
8135.0	M08a	Mode: CW Date/time: Tue 26-10-2010, 2300 Clearly audible but weak signal with fading. A1A. Missed cal Contr: (BKS)
8165	S06	Mode: AM Date/time: Mon 11-10-2010, 2015 UTC 397 0 Contr: (HFD)
8167	XPA	Mode: AM Date/time: Tue 12-10-2010, 1400 msg Contr: (HFD)
8180.0	SK01	Mode: RDFT Date/time: Tue 26-10-2010, 0900 Good sig (S3-S5 on Grundig G3). Faint sound. Contr: (BKS)
8180.0	SK01	Mode: RDFT Date/time: Thu 28-10-2010, 0900 Very strong (S7 on Grundig G3, indoors) Contr: (BKS)
8186.0	M08a	Mode: MCW Date/time: Wed 27-10-2010, 0800 5f cut nums: VG sig. Caught late. Contr: (westli)
8494.7	MX	Mode: CW Date/time: 3-10-2010, 1205 UTC Beacon "D" Contr: (AB)
8494.9	MX	Mode: CW Date/time: 3-10-2010, 1205 UTC Beacon "S" Contr: (AB)
9040.0	V02a	Mode: AM Date/time: Wed 20-10-2010, 0900 UTC V2a SSYL: VG sig. Caught late. Contr: (westli)
9063.0	M08a	Mode: MCW Date/time: Fri 1-10-2010, 0800 UTC 5f cut nums: 42011 03252 24472 VG sig. Contr: (westli)
9063.0	M08a	Mode: MCW Date/time: Wed 6-10-2010, 0800 5f cut nums: 01532 63422 06522 VG sig. Contr: (westli)
9063.0	M08a	Mode: MCW Date/time: Fri 8-10-2010, 0800 UTC 5f cut nums: 78842 52021 35711 VG sig. Contr: (westli)
9063.0	M08a	Mode: MCW Date/time: Wed 13-10-2010, 0800 5f cut nums: 28111 15731 78621 VG sig. Contr: (westli)
9063.0	M08a	Mode: MCW Date/time: Fri 22-10-2010, 0800 UTC 5f cut nums: 25462 12172 75862 VG sig. Contr: (westli)
9063.0	V02a	Mode: AM Date/time: Wed 27-10-2010, 0900 UTC SSYL: VG sig. Caught late. Contr: (westli)
9079	E11	Mode: USB Date/time: Thu 7-10-2010, 0730 643/36 Contr: (HFD)
9138	M12	Mode: CW Date/time: Fri 1-10-2010, 0600 UTC 138 0 Contr: (HFD)
9150	M03	Mode: CW Date/time: 12-10-2010, 0910 UTC 272/00 == 0 0 0 Contr: (FN)
9153.0	M08a	Mode: MCW Date/time: Fri 1-10-2010, 0700 UTC 5f cut nums: 42011 03252 24472 VG sig. Contr: (westli)
9153.0	M08a	Mode: MCW Date/time: Wed 6-10-2010, 0700 5f cut nums: Very weak sig. Blkd By stro Contr: (westli)
9153.0	M08a	Mode: MCW Date/time: Fri 8-10-2010, 0700 UTC 5f cut nums: VG sig. Up late IP.

		Contr: (westli)
9153.0	M08a	Mode: MCW Date/time: Wed 13-10-2010, 0700 28111 15731 78621 VG sig. later QRM from a periodic sig. Contr: (westli)
9153.0	M08a	Mode: MCW Date/time: Fri 15-10-2010, 0700 UTC 5f cut nums: 11671 54451 46021 VG sig. Contr: (westli)
9153.0	M08a	Mode: MCW Date/time: Fri 22-10-2010, 0700 UTC 5f cut nums: Good sig. Up late IP. Contr: (westli)
9153.0	M08a	Mode: MCW Date/time: Fri 29-10-2010, 0700 UTC Very strong (S9+ indoors on G3). Missed callups. Caught IP. Contr: (BKS)
9153.0	M08a	Mode: MCW Date/time: Fri 29-10-2010, 0700 UTC 5f cut nums: 33671 VG sig. Up late IP. Contr: (westli)
9153.0	M08a	Mode: MCW Date/time: Fri 29-10-2010, 0800 UTC 5f cut nums: 33671 74242 71662 VG sig. Contr: (westli)
9153.0	V26	Mode: USB Date/time: Mon 11-10-2010, 0930 CCYL. Chinese, mostly 3-fig groups. Weak. Poor readability Contr: (westli)
9153.0	V26	Mode: USB Date/time: Tue 12-10-2010, 0930 CCYL. Chinese, mostly 3-fig groups. caught late. Weak. Contr: (westli)
9166.3	OLO32	Mode: FEC 100/170 Date/time: 16-10-2010, Czech intel Prague crypto traffic Contr: (PPA)
9176	M12	Mode: CW Date/time: Mon 4-10-2010, 1900 UTC 257 1 Contr: (HFD)
9176.0	M12	Mode: CW Date/time: Thu 7-10-2010, 1900 UTC 257 1 9128 54 77534 32905 78219 ... 39404 000 000 Contr: (CG)
9206	M42	Mode: Baudot 50/500 Date/time: 16-10-2010, Russian Gov/Intel. "DE K4NT QSA3 QSA? QLP2 CFM QTC1 ZZC -> RYRYRY 921 124 16 1230 2415 =" Contr: (PPA)
9206	M42	Mode: Baudot 50/500 CW R Date/time: 21-10- ussian Gov/Intel. "... 34044 54137 ... (5FGs). Switches to Morse: "CFM NIL K. QSX 87843 QR Contr: (MPJ)
9206	M42	Mode: Baudot 50/500 CW R Date/time: 21-10- ussian Gov/Intel. NT9P: "CFM NIL QRX 87862 QRX 87862 QRV. R 0_9 1333 K." Continues same pr Contr: (MPJ)
9240.0	V02a	Mode: AM Date/time: Wed 27-10-2010, 1029 UTC V2a; in progress Contr: (BM)
9243	E07	Mode: AM Date/time: Mon 4-10-2010, 1920 UTC 229 1 Contr: (HFD)
9264	M12	Mode: CW Date/time: Thu 7-10-2010, 1820 UTC 124 1 Contr: (HFD)
9264.0	M12	Mode: CW Date/time: Thu 7-10-2010, 1820 UTC 124 1 2560 77 47033 38723 96515 ... 91958 000 000 Contr: (CG)
9356	XPA	Mode: AM Date/time: Fri 1-10-2010, 0600 UTC msg Contr: (HFD)
9362	XPA	Mode: AM Date/time: Thu 7-10-2010, 1900 UTC msg Contr: (HFD)

9371	S11a	Mode: USB Date/time: Tue 12-10-2010, 0730 521/33 Contr: (HFD)
9385.35	OL032	Mode: FEC 100/170 Date/time: 2-10-2010, 0842 Czech Intel Contr: (BCI)
9423	E07	Mode: AM Date/time: Sun 24-10-2010, 1720 only carrier BC QRM Contr: (HFD)
9923	X06	Mode: AM Date/time: 25-10-2010, 1449 UTC Mazielka. Sequence: 463125 Contr: (HS2)
4571	M01b	Mode: CW Date/time: 7-10-2010, 1945 UTC i.p., ends at 1952z: == 334 33 000 Contr: (FN)
6904	M12	Mode: CW Date/time: 7-10-2010, 1940 UTC 257 1 9128 54 77534) FN Thu Contr: (FN)
6904	M12	Mode: CW Date/time: 11-10-2010, 1940 UTC 257 1 5311 54 89641... Contr: (FN)
7684	M12	Mode: CW Date/time: 14-10-2010, 0655 UTC just ends: 90383 000 000 Contr: (FN)
9176	M12	Mode: CW Date/time: 11-10-2010, 1900 UTC 257 1 5311 54 89641... Contr: (FN)
9176	M12	Mode: CW Date/time: 14-10-2010, 1900 UTC 257 1 8524 56 60789 Contr: (FN)
10243	E07	Mode: AM Date/time: Mon 4-10-2010, 1900 UTC 229 1-485/28=20251 Contr: (HFD)
10255	VTN	Mode: USB Date/time: 9-1-2010, 1557 UTC 1557:30 UTC first msg, 42 grps, VT, OM, 5f, 2nd msg start 1602:07, 3rd msg start 1606:44 Contr: (Token)
10255	VTN	Mode: USB Date/time: 10-1-2010, 1557 UTC No numbers heard, Tone, 985 Hz, 1557:02 - 1600:37 UTC, 1602:09 - 1605:44 UTC, 1607:15 - 16 Contr: (Token)
10255	VTN	Mode: USB Date/time: 9-3-2010, 1557 UTC 1557:29 UTC first msg, 42 grps, VT, OM, 5f, 2nd msg start 1602:07, 3rd msg start 1606:43 Contr: (Token)
10255	VTN	Mode: USB Date/time: 9-4-2010, 1557 UTC 1557:31 UTC first msg, 42 grps, VT, OM, 5f, 2nd msg start 1602:08, 3rd msg start 1606:46 Contr: (Token)
10255	VTN	Mode: USB Date/time: 9-5-2010, 1557 UTC 1557:30 UTC first msg, 42 grps, VT, OM, 5f, 2nd msg start 1603:07, 3rd msg start 1608:44 Contr: (Token)
10255	VTN	Mode: USB Date/time: 10-5-2010, 1557 UTC No numbers heard, Tone, 950 Hz, 1557:02 - 1600:37 UTC, 1602:37 - 1606:14 UTC, 1608:14 - 16 Contr: (Token)
10255	VTN	Mode: USB Date/time: 9-6-2010, 1557 UTC 1557:28 UTC first msg, 42 grps, VT, OM, 5f, 2nd msg start 1603:05, 3rd msg start 1608:41 Contr: (Token)
10255	VTN	Mode: USB Date/time: 10-6-2010, 1556 UTC No numbers heard, Tone, 950 Hz, 1556:58 - 1559:28 UTC, 1600:29 - 1602:59 UTC, 1604:01 - 16 Contr: (Token)
10255	VTN	Mode: USB Date/time: 9-7-2010, 1557 UTC 1557:27 UTC first msg, 42 grps, VT, OM, 5f, 2nd msg start 1603:04, 3rd msg start 1608:41 Contr:

		(Token)
10255	VTN	Mode: USB Date/time: 10-7-2010, 1556 UTC No numbers heard, Tone, 950 Hz, 1556:58 - 1559:28 UTC, 1600:29 - 1602:59 UTC, 1604:00 - 16 Contr: (Token)
10255	VTN	Mode: USB Date/time: 10-8-2010, 1556 UTC No numbers heard, Tone, 970 Hz, 1556:56 - 1559:25 UTC, 1600:27 - 1602:56 UTC, 1603:57 - 16 Contr: (Token)
10255	VTN	Mode: USB Date/time: 13-9-2010, 1557 UTC 1557:19 UTC first msg, 42 grps, VT, OM, 5f, 2nd msg start 1602:56, 3rd msg start 1608:33 Contr: (Token)
10255	VTN	Mode: USB Date/time: 14-9-2010, 1557 UTC 1557:18 UTC first msg, 42 grps, VT, OM, 5f, 2nd msg start 1602:55, 3rd msg start 1608:34 Contr: (Token)
10255	VTN	Mode: USB Date/time: 26-9-2010, 1557 UTC No numbers heard, Tone, 970 Hz, 1557:05 - 1600:40 UTC, 1601:40 - 1605:17 UTC, 1606:17 - 16 Contr: (Token)
10255	VTN	Mode: USB Date/time: 27-9-2010, 1557 UTC No numbers heard, Tone, 970 Hz, 1557:06 - 1600:41 UTC, 1602:13 - 1605:49 UTC, 1607:20 - 16 Contr: (Token)
10255	VTN	Mode: USB Date/time: 28-9-2010, 1557 UTC No numbers heard, Tone, 970 Hz, 1557:04 - 1600:39 UTC, 1602:11 - 1605:47 UTC, 1607:18 - 16 Contr: (Token)
10255	VTN	Mode: USB Date/time: 29-9-2010, 1557 UTC No numbers heard, Tone, 970 Hz, 1557:04 - 1600:39 UTC, 1602:12 - 1605:46 UTC, 1607:18 - 16 Contr: (Token)
10255	VTN	Mode: USB Date/time: 10-10-2010, 1556 UTC No numbers heard, Tone, 970 Hz, 1556:52 - 1559:24 UTC, 1601:24 - 1603:55 UTC, 1605:56 - 16 Contr: (Token)
10255	VTN	Mode: USB Date/time: 9-11-2010, 1557 UTC 1557:22 UTC first msg, 42 grps, VT, OM, 5f, 2nd msg start 1602:59, 3rd msg start 1608:36 Contr: (Token)
10255	VTN	Mode: USB Date/time: 10-11-2010, 1556 UTC No numbers heard, Tone, 970 Hz, 1556:51 - 1600:39 UTC, 1602:38 - 1606:23 UTC, 1608:25 - 16 Contr: (Token)
10255	VTN	Mode: USB Date/time: 9-12-2010, 1557 UTC 1557:21 UTC first msg, 42 grps, VT, OM, 5f, 2nd msg start 1602:57, 3rd msg start 1608:34 Contr: (Token)
10343	M12	Mode: CW Date/time: Thu 7-10-2010, 1800 UTC 124 1 Contr: (HFD)
10343.0	M12	Mode: CW Date/time: Thu 7-10-2010, 1800 UTC 124 1 2560 77 47033 38723 96515 ... 91958 000 000 Contr: (CG)
10432.0	M08a	Mode: MCW Date/time: Sun 3-10-2010, 0900 UTC 5f cut nums: 71511 VG sig. Up late IP. Contr: (westli)

10432.0	M08a	Mode: MCW Date/time: Sun 3-10-2010, 0900 UTC weak signal s2r2 Contr: (Fiz)
10432.0	M08a	Mode: MCW Date/time: Mon 4-10-2010, 0900 5f cut nums: 52252 55201 02341 VG sig. Contr: (westli)
10432.0	M08a	Mode: MCW Date/time: Fri 8-10-2010, 0900 UTC 5f cut nums: 25371 17622 32172 VG sig. Contr: (westli)
10432.0	M08a	Mode: MCW Date/time: Mon 11-10-2010, 0900 5f cut nums: 42012 72161 08321 Good sig. Contr: (westli)
10432.0	M08a	Mode: MCW Date/time: Fri 22-10-2010, 0900 UTC 5f cut nums: 45281 88101 13551 Good sig. Contr: (westli)
10432.0	M08a	Mode: MCW Date/time: Sun 24-10-2010, 0900 5f cut nums: 26721 43162 18842 VG sig. Contr: (westli)
10432.0	M08a	Mode: MCW Date/time: Mon 25-10-2010, 0900 5f cut nums: 36072 36072 50281 Weak sig. Contr: (westli)
10445.0	M08a	Mode: CW Date/time: Thu 14-10-2010, 0400 5f cut nums: 86351 30582 15112 Weak sig. Contr: (westli)
10522.0	V13	Mode: USB Date/time: Sun 3-10-2010, 1200 Weak signal. Sometimes readable. Contr: (PanDR)
10522.0	V13	Mode: USB Date/time: Thu 7-10-2010, 0600 CCYL New Star #4. Msg set: 10-1. Very weak. Contr: (westli)
10522.0	V13	Mode: USB Date/time: Thu 7-10-2010, 1200 CCYL New Star #4. Msg set: 10-1. Fair readability. Contr: (westli)
10522.0	V13	Mode: USB Date/time: Thu 7-10-2010, 1300 CCYL New Star #4. Msg set: 10-1. Weak. Fair readability. Contr: (westli)
10522.0	V13	Mode: USB Date/time: Fri 8-10-2010, 1200 UTC CCYL New Star #4. Msg set: 10-2. Very weak. Contr: (westli)
10522.0	V13	Mode: USB Date/time: Fri 8-10-2010, 1300 UTC CCYL New Star #4. Msg set: 10-2. Weak. Fair readability. Contr: (westli)
10522.0	V13	Mode: USB Date/time: Sat 16-10-2010, 1200 UTC CCYL New Star #4. Msg set: 10-3. 1 min late Contr: (westli)
10522.0	V13	Mode: USB Date/time: Sat 16-10-2010, 1300 UTC CCYL New Star #4. Msg set: 10-3. Fair readability. Contr: (westli)
10522.0	V13	Mode: USB Date/time: Fri 22-10-2010, 1200 CCYL New Star #4. Msg set: 10-4. Fair readability. Contr: (westli)
10522.0	V13	Mode: USB Date/time: Fri 22-10-2010, 1300 CCYL New Star #4. Msg set: 10-4. Poor readability. Contr: (westli)
10538	M12	Mode: CW Date/time: Fri 1-10-2010, 0620 UTC 138 0 Contr: (HFD)
10595	M42	Mode: RUS-ARQ 100/500 Date/time: 10-2-2010, Russian Gov/Intel Moscow c/s RKD48 Contr: (BCI)

10857.0	M08a	Mode: CW Date/time: Wed 13-10-2010, 1400 UTC 5f cut nums: 70352 04132 45342 Weak sig. QSB2 Contr: (westli)
10857.0	M08a	Mode: CW Date/time: Wed 20-10-2010, 1400 UTC 5f cut nums: 74351 52771 62282 Good sig. Contr: (westli)
10871.7	MX	Mode: CW Date/time: 3-10-2010, 1205 UTC Beacon "D" Contr: (AB)
10871.7	MX	Mode: CW Date/time: 17-10-2010, 1422 UTC Beacon "D" Contr: (MPJ)
10871.9	MX	Mode: CW Date/time: 3-10-2010, 1205 UTC Beacon "S" Contr: (AB)
10872	MX	Mode: CW Date/time: 3-10-2010, 1205 UTC Beacon "C" Contr: (AB)
10872	MX	Mode: CW Date/time: 17-10-2010, 1422 UTC Beacon "C" Contr: (MPJ)
10872.1	MX	Mode: CW Date/time: 17-10-2010, 1422 UTC Beacon "A" Contr: (MPJ)
10956	XPA	Mode: AM Date/time: Fri 1-10-2010, 0620 UTC msg Contr: (HFD)
11167	X06	Mode: AM Date/time: 17-10-2010, 0932 UTC Mazielka. 2-tone system Contr: (linkz)
11435	SK01	Mode: AM Date/time: 1-1-2010, 0626 UTC DGI. Huge carrier ? Contr: (all)
11445	M31	Mode: CW Date/time: 15-10-2010, 2025 UTC "vvv vvv vvv de fdi22 fdi22 fdi22 ar" marker from French Air Force, Narbonne Contr: (MCO)
11454	E07	Mode: AM Date/time: Sun 24-10-2010, 1703 ip Contr: (HFD)
12134.0	M08a	Mode: CW Date/time: Mon 4-10-2010, 1400 UTC 5f cut nums: 41112 00181 13812 Good sig. Contr: (westli)
12134.0	M08a	Mode: CW Date/time: Mon 11-10-2010, 1400 UTC 5f cut nums: 88331 55102 72772 Good sig. Contr: (westli)
12134.0	M08a	Mode: CW Date/time: Thu 14-10-2010, 1400 5f cut nums: 07361 36722 03682 Good sig. Contr: (westli)
12134.0	M08a	Mode: CW Date/time: Mon 25-10-2010, 1400 UTC 5f cut nums: 21211 81742 66252 VG sig. Contr: (westli)
12134.0	M08a	Mode: CW Date/time: Thu 28-10-2010, 1400 5f cut nums: 76051 22661 35711 Good sig. Contr: (westli)
12140	S06s	Mode: AM Date/time: Fri 1-10-2010, 0930 UTC 516-230/7=76073 Contr: (HFD)
12140	S06s	Mode: AM Date/time: 7-10-2010, 0930 UTC 516 230 7 76073 Contr: (FN)
12156	XPA	Mode: AM Date/time: Fri 1-10-2010, 0640 UTC msg Contr: (HFD)
12180.0	V02a	Mode: AM Date/time: Tue 5-10-2010, 1900 UTC V2a SSYL atencion: 88712 60701 14231 Very weak sig. heavy Contr: (westli)
12180.0	V02a	Mode: AM Date/time: Thu 21-10-2010, 1900 SSYL atencion: 27542 57.51 45051 Very weak sig. QRM Contr: (westli)
12224	X06	Mode: AM Date/time: 14-10-2010, 1458 UTC

12224	X06	Mazielka. Sequence: 463125 Contr: (HS2) Mode: AM Date/time: 25-10-2010, 0937 UTC
12224	X06	Mazielka. Sequence: 463125 Contr: (HS2) Mode: AM Date/time: 25-10-2010, 1430 UTC
12355	S06s	Mazielka. Sequence: 463125 Contr: (AnEur) Mode: AM Date/time: Tue 12-10-2010, 0610 438 Contr: (HFD)
13380.0	M08a	Mode: MCW Date/time: Tue 26-10-2010, 2000 86741 Very weak sig. Poss unintentional xmsn mi Contr: (westli)
13380.0	V02a	Mode: AM Date/time: Tue 5-10-2010, 2000 UTC SSYL atencion: 88712 60701 14231 Weak sig. heavy QRM/N Contr: (westli)
13380.0	V02a	Mode: AM Date/time: Tue 12-10-2010, 2000 SSYL atencion: 34152 46531 31152 Good sig. QRM3 Contr: (westli)
13380.0	V02a	Mode: AM Date/time: Thu 14-10-2010, 2000 SSYL atencion: 54181 06701 42341 Good sig. QRM4 Contr: (westli)
13380.0	V02a	Mode: AM Date/time: Tue 26-10-2010, 2000 SSYL atencion: 70282 20.. Very weak sig. Poss xmtr p Contr: (westli)
13406.3	OLO32	Mode: FEC 100/170 Date/time: 21-10-2010, Czech Intel Contr: (MPJ)
13509	M12	Mode: CW Date/time: 31-10-2010, 1422 UTC 852 852 852 000 Contr: (MCO)
13515	S06s	Mode: AM Date/time: Fri 1-10-2010, 0940 UTC 516 Contr: (HFD)
13515	S06s	Mode: AM Date/time: 7-10-2010, 0940 UTC 516 230 7 76073 Contr: (FN)
13517	X06	Mode: AM Date/time: 25-10-2010, 1442 UTC Mazielka. Sequence: 463125 Contr: (AnEur)
13527.7	MX	Mode: CW Date/time: 3-10-2010, 1205 UTC Beacon "D" Contr: (AB)
13527.7	MX	Mode: CW Date/time: 8-10-2010, 1319 UTC Beacon "D" Odessa/Sevastapol Contr: (MPJ)
13528.1	MX	Mode: CW Date/time: 8-10-2010, 1319 UTC Beacon "A" Astrakhan Contr: (MPJ)
13833	X06	Mode: AM Date/time: 5-10-2010, 1855 UTC Mazielka. Sequence: 24653 Contr: (FN)
14442	X06	Mode: AM Date/time: 14-10-2010, 1521 UTC Mazielka Contr: (GN2)
14620	E17z	Mode: USB Date/time: 30-9-2010, 0800 UTC 674 00000 Contr: (IARUMS)
14650	X06	Mode: AM Date/time: 2-10-2010, 1448 UTC Mazielka. Sequence: 215346 Contr: (Dan)
15828	X06	Mode: AM Date/time: 2-10-2010, 1428 UTC Mazielka. Sequence: 256134 Contr: (Dan)
16025	X06	Mode: AM Date/time: 2-10-2010, 1438 UTC Mazielka. Sequence: 156234 Contr: (Dan)
16117	X06	Mode: AM Date/time: 25-10-2010, 0923 UTC Mazielka. Sequence: 463125 Contr: (HS2)
16331.6	MX	Mode: CW Date/time: 12-10-2010, 1207 UTC Beacon "D" either it's off frequency or two of my receivers are inaccurate. Contr: (MPJ)
16331.7	MX	Mode: CW Date/time: 3-10-2010, 1205 UTC Beacon "D" Contr: (AB)

16331.9	MX	Mode: CW Date/time: 3-10-2010, 1205 UTC Beacon "S" Contr: (AB)
16332.2	MX	Mode: CW Date/time: 10-10-2010, 0939 UTC Beacon "F" Vladivostok Contr: (FBA)
16332.2	MX	Mode: CW Date/time: 23-10-2010, 0030 UTC Beacon "F" Contr: (Vambo)
16332.3	MX	Mode: CW Date/time: 23-10-2010, 0024 UTC Beacon "K" Contr: (Vambo)
20047.7	MX	Mode: CW Date/time: 4-10-2010, 1230 UTC Beacon "D" Sevastopol Contr: (WP3)
20047.9	MX	Mode: CW Date/time: 3-10-2010, 1205 UTC Beacon "S" Contr: (AB)
20047.9	MX	Mode: CW Date/time: 4-10-2010, 1230 UTC Beacon "S" Severomorsk Contr: (WP3)

CONTRIBUTORS

AB	Ary Boender, Netherlands
AB-HK	Ary Boender via GlobalTuners Hong Kong
ALF	Alf, Germany
all	Allenk, AZ, USA
AnEur	Anonymous Europe
AnNYC	Anonymous, New York City
AT	Alex Topeki, ALS, USA
AtB	Attu Bosch, AK, USA
BCI	Bruno Casula, Italy
BKS	Brandon Longo, CA, USA
BM	Ben Mesander, CO, USA
CCNV	Clifford Campos, NV, USA
CG	Capitanex, Germany
CK	Costas, Southern Europe
CU	Centrepont, UK
Dan	Daniel
Dip	Dipole-MA
FBA	F4LKC Franck, France
Fiz	Fizzler, Germany
FN	Fritz Nusser, Switzerland
GN2	Gary Neville
HFD	Hans-Friedrich Dumrese, Germany
IARUMS	IARU Monitoring Service
Imp	Impaler
Jon-FL	Jon, FL, USA
JPL	JPL, Ontario, Canada
JPL-AUT	JPL via GlobalTuners Austria
JPL-HK	JPL via GlobalTuners Hong Kong
JPL-SE	JPL via GlobalTuners Sweden
linkz	Linkz, S.E. France
MCO	Mike Chace-Ortiz, PA, USA
ML4	Michel Lacroix, France
MPJ	Jim, SW England
OC	Old Crow, UK
PanDR	PanDR48, Sweden
PPA	Peter Poelstra, Netherlands
RP	Rimantas Pleikys, Lithuania
RP2	Ronny Peeters, Belgium

RSRu	Radioscanner Russia
Sash	Sasha Shmel
TG2	Travis Gibbs, OR, USA
TJ	Trond Jacobsen, Norway
Token	T!, CA, USA
Westli	Westli, CA, USA
WP3	Wolfgang Palmberger

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