



Monitoring System

Observe the screenshots, comments and credits below!

Intruder News from: **March, 11th 2010** – Persistent: black - Latest: blue - New: red

kHz	UTC	DATE	ITU	IDENT	MODE	BD	SH	DETAILS
3500.000	1700	dly	E	names	USB			Spanish fishery
3622.500	2000	dly	J	JMH	F1C			Tokyo Meteo, Wxfax, 120 rpm, IOC576
7001.600	1500	04.03.10	ISR		PSK4	75	2700	MIL188-110A – hybrid modem – ser./par.
7011.800	1400	01.03.10	BIH		PSK8	2400	2600	MIL188-110A - Sarajevo
7016.000	0500	dly	GEO		OFDM	30	2900	OFDM 93 – Tiflis, Georgia
7018.000	vt	dly	RUS	REA4	F1A/B	50	1000	RUS Airforce Moscow, ident 0h + 41 min
7026.000	ady	dly	BLR		PSK2	120	2600	AT3004D – Minsk, Belarus
7038.700	ady	dly	UKR	D	CW			beacon “D” - Sevastopol
7038.800	ady	dly	RUS	P	CW			beacon “P” - Kaliningrad
7038.900	ady	dly	RUS	S	CW			beacon “S” - Murmansk
7039.000	ady	dly	RUS	C	CW			beacon “C” - Moscow
7039.200	ady	dly	RUS	F	CW			beacon “F” - Vladivostok
7039.300	ady	dly	RUS	K	CW			beacon “K” - Petropavlovsk
7044.340	1800	dly	RUS		FSK15?		2700	area of Novosibirsk – undefined noise
7050.000	2015	07.02.10	CHN		P0N			Chinese Radar – 43.5 pps
7054.000	vt	dly	RUS		F1B	50	200	RUS MIL Moscow – morning and evening
7070.000	vt	dly	CHN	no ITU	FSK8	125	1750	ALE, “288” “514” – PRC - PLA
7089.500	1238	dly	UKR		F1C			WX-fax - 60 rpm – IOC 576 - Sevastopol
10107.000	0800	dly	RUS		CW			dots, 20 msec, Novosibirsk, navigation?
10131.400	0800	dly	E	names	USB			Spanish fishermen, “Carlos”
10147.000	1400	22.11.09	FEa	Bora	LSB			Far or Middle East pirates, “Bora Bora”
14001.000	vt	dly	CHN	no ITU	FSK8	125	1750	ALE, “272” “482” - PRC-PLA
14036.000	1115	04.01.10	RUS	REA 4	F1B	50	2000	2 nd from 7018 – Russian AF Moscow
14052.000	1000	09.03.10	BLR		PSK2	120	5200	AT3004D - 2 nd from 7026 - screenshot
14139.000	vt	dly	CHN	no ITU	FSK8	125	1750	ALE, “597” “809” – PRC-PLA
14166.000	vt	dly	CHN	no ITU	FSK8	125	1750	ALE, “867” “963” - possibly PRC-PLA
14180.000	1340	18.01.10	UKR		F1C			WXfax, 2 nd from 7090, RUS Navy Sevast.
14295.153	vt	dly	TJK		A3E			3 rd from 4765 – Radio Tajikistan
14337.000	vt	dly	CHN	no ITU	FSK8	125	1750	ALE, “143” “246” – PRC-PLA
21001.500	0700	dly	RUS		F1B	100	140	ACF = 0 - RUS MIL - Jekaterinburg
21245.000	vt	dly	ISR		USB			female voice, encrypted MSGs - Israel
21312.380	1000	20.02.10	FEa		MFSK			unknown signal, beacon? - screenshot
21390.000	0850	15.02.10	RUS		F1B	50	3000	6 th from 3565

UTC = universal time coordinated (=GMT) /// ady = all day /// vt = various times /// dly = daily /// vd = various days
 date (dd.mm.yy) /// IDENT = call, selcall /// MODE = USB, LSB, A3E = AM, F3E = FM, F1B (= FSK), G7B, J7D
 ALE = MIL-188-141A /// NWAf = North West Africa /// con = continuous) /// ITU = ITU-abbreviation /// BD = baud
 /// SH = shift (Hz) /// DETAILS = observed details /// uniden (ui) = unidentified /// AF = Airforce /// MOI = Ministry of Interior
 /// MOD = Ministry of Defense /// MFA = Ministry of Foreign Affairs /// MEa = Middle East /// FEa = Far East /// Eaf = East
 Africa /// CAf = Central Africa /// CIS = Community of Independent States (earlier UDSSR) /// NAf = North Africa /// NEu =
 Northern Europe /// PRC = People’s Republic of China /// PLA = People’s Liberation Army (China) /// pps = pulses/second
 (Radar) /// CIS = Community of Independent States /// emba = embassy /// DPRK = Democratic People Republic of North
 Korea /// NGO = Non Governmental Organization /// MOPO = Ministry of Public Order /// FSK = frequency shift keying ///
 PSK = phase shift keying

Notice board:

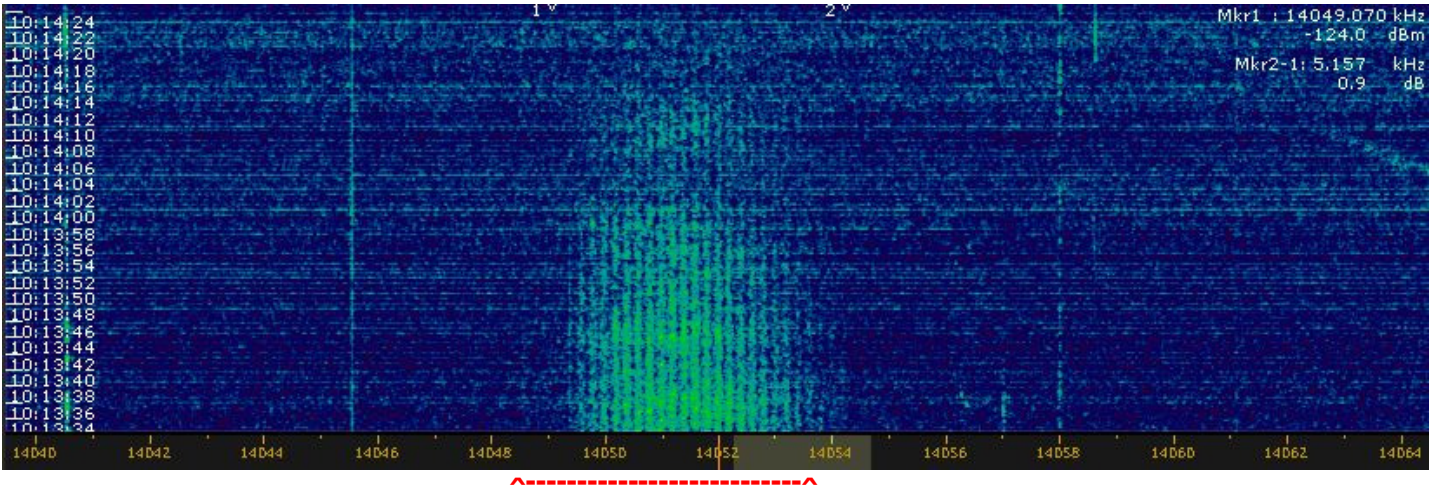
Spanish fishermen are daily abusing 10131.4 kHz in USB at 0800 UTC and later (also in the afternoons and evenings). They are using this QRG like a fixed phone line.

7000.0 kHz – USB/LSB - 1300 UTC and later - pirate net from Far or Middle East

The OTH Radar Cyprus is daily interfering 10, 14, 18 and 21 MHz. Parameters: 25 or 50 pulses/sec, stretching over 20 kHz. There are 2 systems: RAF and NATO.

28000 – 29700 kHz --- Many CIS taxis in FM during improving conditions!

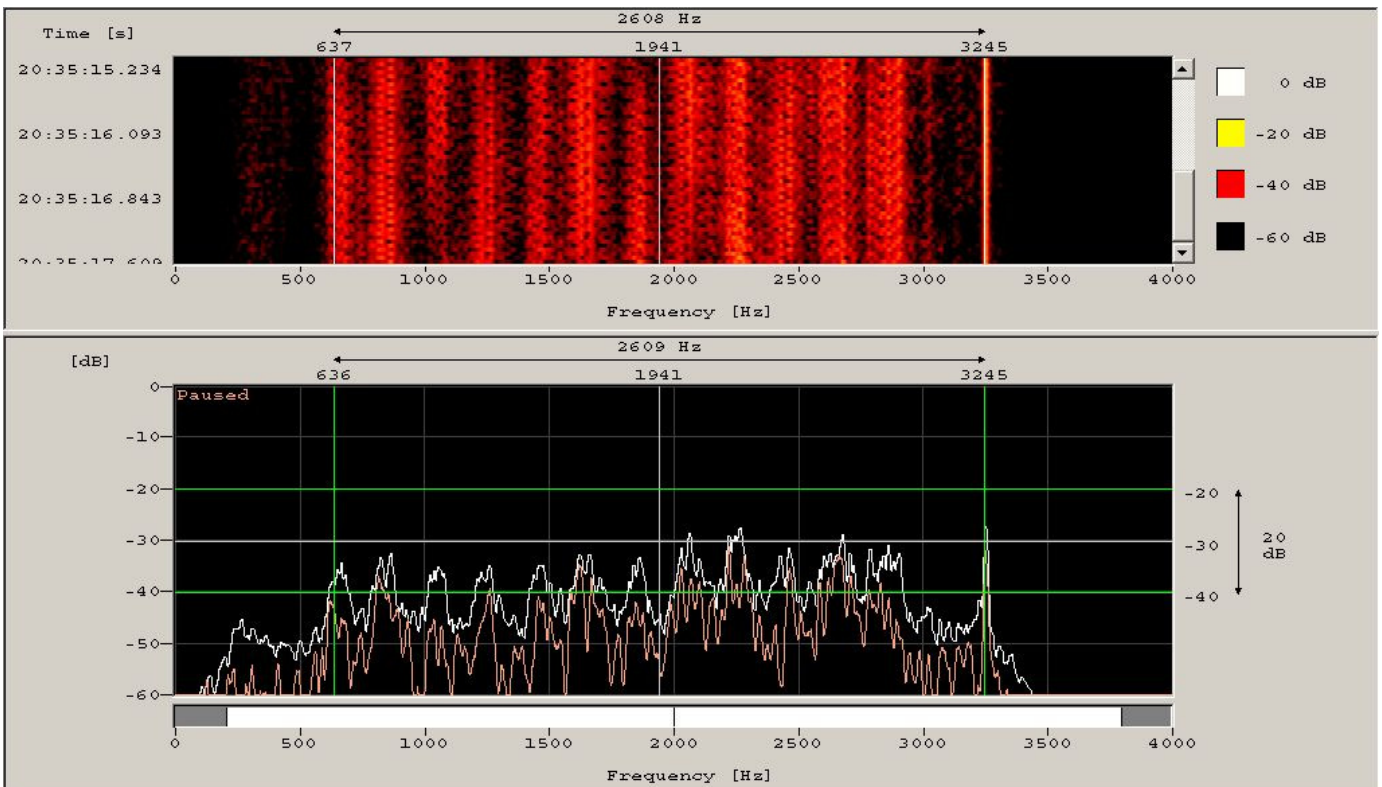
AT3004D on 14056 kHz (shift here: 5200 Hz) - harmonic from 7026 kHz (shift 2600 Hz) –
 Location: Minsk - Belarus - Date: Mar. 09, 2010 at 1000 UTC – screenshot: DK2OM with Perseus -
 daily active since March, 4th – all day



AT3004D / AT3104D – very common systems on our bands!

Parameters: AT3004D – 12 x 120 Bd BPSK + 1 pilottone – stretching over 2600 Hz
 AT3104D – 12 x 120 Bd QPSK + 1 pilottone – stretching over 2600 Hz
 used by Russian, Belorussian and Ukrainian Military
 screenshot: DK2OM with Wavecom W61

soundfile: http://www.iarums-r1.org/iarums/sound/mfsk_12.wav



Measurements and screenshots: DK2OM with Wavecom W40/61, Perseus or Multipsk

credits: Wavecom – Buelach - Switzerland
 SSB-Electronic – Iserlohn - Germany
 BAZ – Special Antennas - Germany

compiled and published by DK2OM