



Monitoring System

Observe the screenshots and comments below!

Intruders from: **October 18th 2018** - persistent or earlier: black – recent: blue - new: red

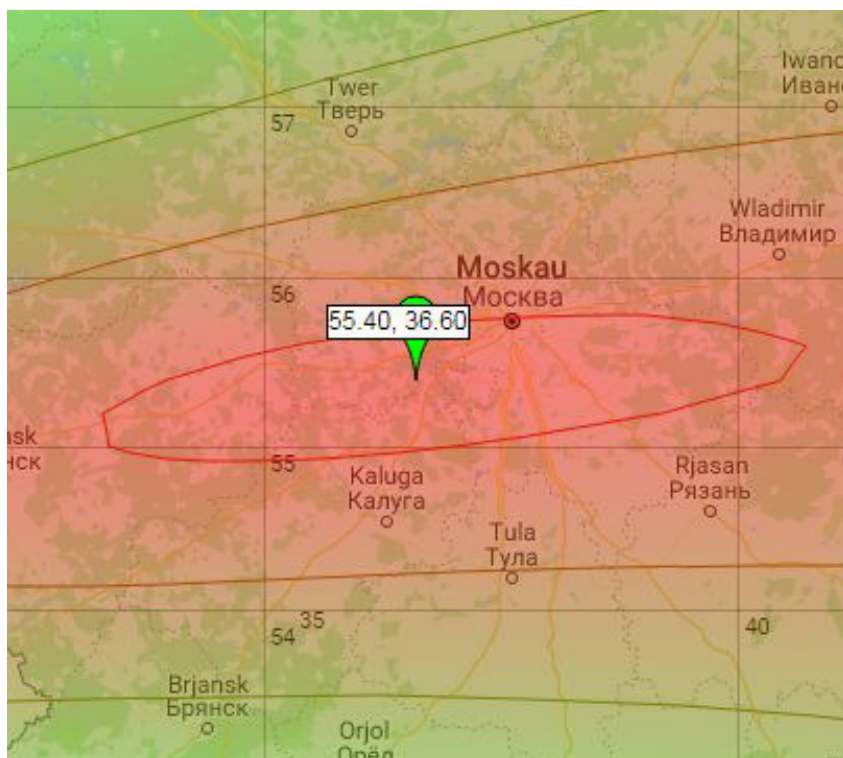
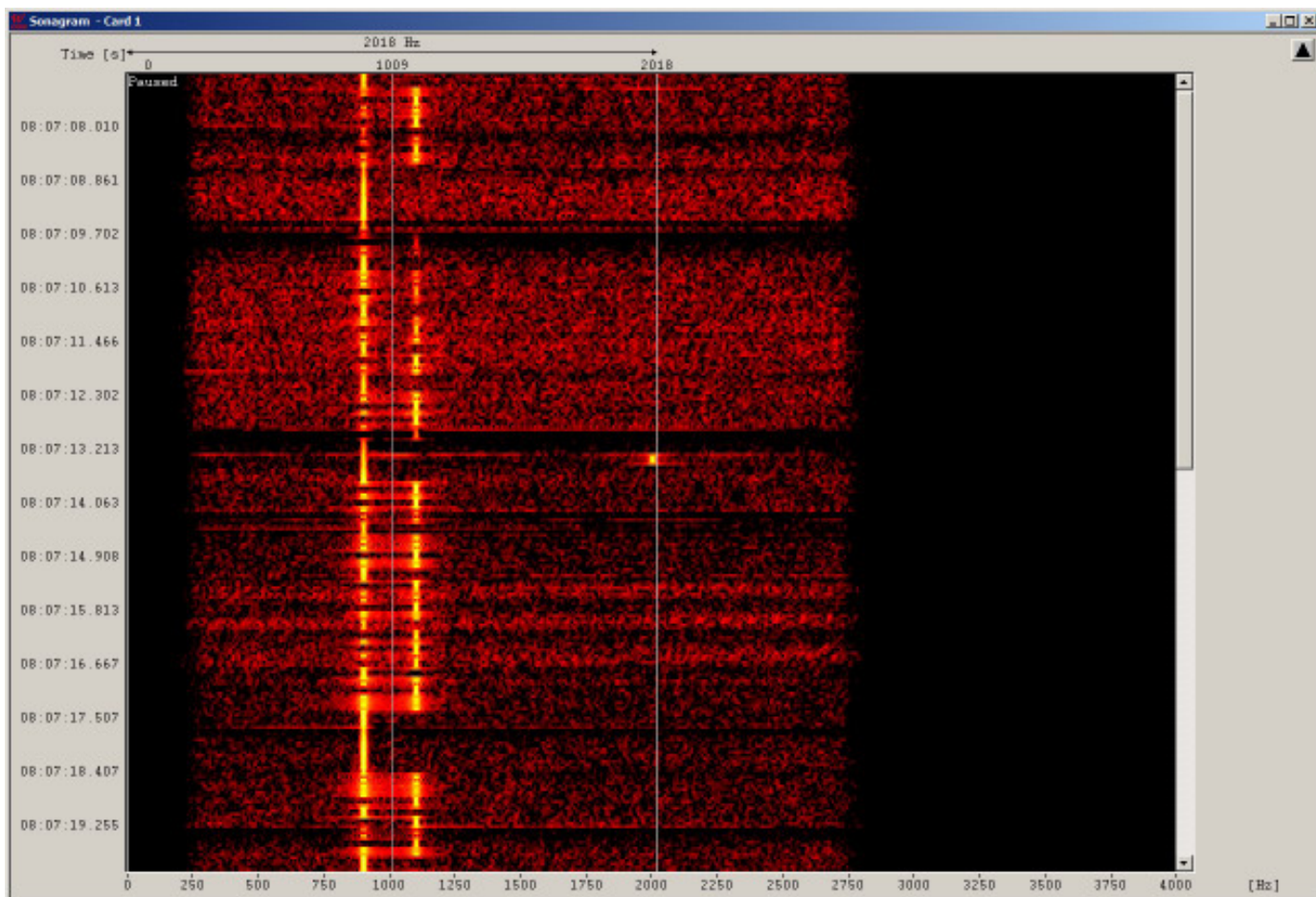
kHz	UTC	DATE	ITU	IDENT	MODE	BD	SH	DETAILS
3569.800	1945	30.08.18	RUS		OFDM	29.6	2750	OFDM 60 – PSK4B – Moscow – legal
3585.000	1827	17.08.18	E		USB			Spanish fishery + scrambler CRY 2001
5361.800	0800	07.10.18	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – Danish navy Aarhus – legal
5362.000	1600	03.09.18	RUS		PSK2A	120	2600	AT3004D – Kaliningrad – shared band
7001.800	ady	18.10.18	POL		PSK8A	2400	2400	MIL-188-110B – bursts – Polish MIL
7039.200	ady	dly	RUS	“F”	A1A			beacon „F“ - „RJS“ - Vladivostok
7039.300	ady	dly	RUS	“K”	A1A			beacon “K” – “RCC” – Petropav. Kam.
7039.400	ady	dly	RUS	“M”	A1A			beacon “M” – “RTS” - Magadan
7110.000	1239	13.10.18	SYR		F1B	50	200	RUS ship – east of Cyprus
7111.000	0800	17.10.18	RUS		F1B	75	250	Moscow
7112.000	1610	12.09.18	CHN		LSB	60	2350	“PRC-30” – 30 tones – 450 Hz pilot tone
7114.000	0607	15.10.18	RUS		F1B	50	200	Kaliningrad
7137.000	2002	14.10.18	RUS		F1B	50	200	Kaliningrad
7150.000	0635	18.10.18	ISR		PSK4/8	75	2400	Israel navy hybrid modem
7162.000	1345	10.09.18	RUS		F1B	75	250	Moscow – DF screenshot
7176.000	1515	27.09.18	RUS		F1B	75	250	Moscow
7179.000	1550	09.10.18	RUS		PSK2A	120	2600	AT3004D – Sevastopol
7182.000	1420	18.09.18	RUS	RDL	F1A		200	RUS navy - Moscow - screenshot
7195.000	2055	24.09.18	RUS		F1B	75	200	Sevastopol
14000.000	1415	04.10.18	FEa		USB			Far East pirates
14008.000	1211	12.09.18	RUS		F1B	50	500	Moscow
14026.000	0940	14.08.18	RUS		PSK2A	120	2600	AT3004D - Moscow
14108.000	0820	22.08.18	RUS		A1A			RUS MIL – area of Moscow
14160.000	0850	14.09.18	RUS		F1B	50	250	Moscow
14185.000	1015	18.10.18	CHN		FMOP		160k	CHN wideband OTH radar – 10 sps
14192.000	vt	dly	RUS		F1B	50	200	RUS navy Kaliningrad - daily
14211.000	0810	12.10.18	CHN		FMOP		10k	Chinese OTH radar “foghorn” – 66.7 sps
14221.000	vt	dly	KGZ		F1B	50	200	Kyrgyzstan – Bishkek – mostly idling
14340.000	1243	12.10.18	CHN		FMOP		10k	OTH radar – 66.66 sps – 3.8 sec bursts
18080.000	0750	18.09.18	TWN		A3E		9k	Sound of Hope TWN + CHN BC jammer
18107.000	vt	vd	RUS	RDL	F1B	50	200	Moscow – RUS navy – shared band!
21438.000	0836	07.10.18	RUS	RCV	A1A			navy Sevastopol – RCV – RKZ - RJV
28860.000	0700	24.08.18	IRN		AM-puls			Iran radar – 150 and 313 sps

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 / RTTY, PSK
 ALE = MIL-188-141A /// NWAf = North West Africa /// con = continuous /// ITU = ITU-abbreviation /// BD = Baud
 /// SH = shift (Hz) or signal spread /// DETAILS = observed details /// unid (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 = Commonwealth of Independent States (earlier UDSSR) /// NAf = North Africa
 /// NEu = Northern Europe /// PRC = People’s Republic of China /// 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 /// EU = Europe /// SPS = sweeps/sec = PRF -> OTH radar
 OTHR = OTH radar -> FMCW = frequency modulated continuous wave -> FMOP = freq. mod. on pulse

Notice board:

Please note: All digital mode frequencies are center frequencies. Exceptions are mentioned!
 USB: 3500 - 3535 – 3550 – 3555 - 3560 – 3585 - 5350 – 5360 - 7000 – 7050 - 10125 - Spanish fishery
 Illegal BCs: 7120 -> Radio Hargaysa Somalia ++ 7180 -> Radio Eritrea ++ 7200 -> Myanmar Radio
 18080 -> Sound of Hope (Taiwan) + CHN jammer
 Many fishnet buoys between 28000 and 28500 kHz from southwest (carrier + CW-ident)

7182.0 kHz (Center) - shift 200 Hz - (CW msgs on 7182.1 kHz) – ident “RDL”
Russian navy Moscow - screenshot: DK2OM with Wavecom W-Code – sonagram showing the F1A



Russian MIL F1B on 7162.0 kHz
location Moscow
DF: DK2OM with SDR Kiwi TDoA
direction finder
at 1340 utc on Sept. 10th

<https://sdr.hu/>

Measurements and screenshots: DK2OM with W-Code (Wavecom), W-PCI (Wavecom) or Perseus

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