



Monitoring System

Observe the screenshots and comments below!

Intruders from: **August 19th 2018** - persistent or earlier: black – recent: blue - new: red

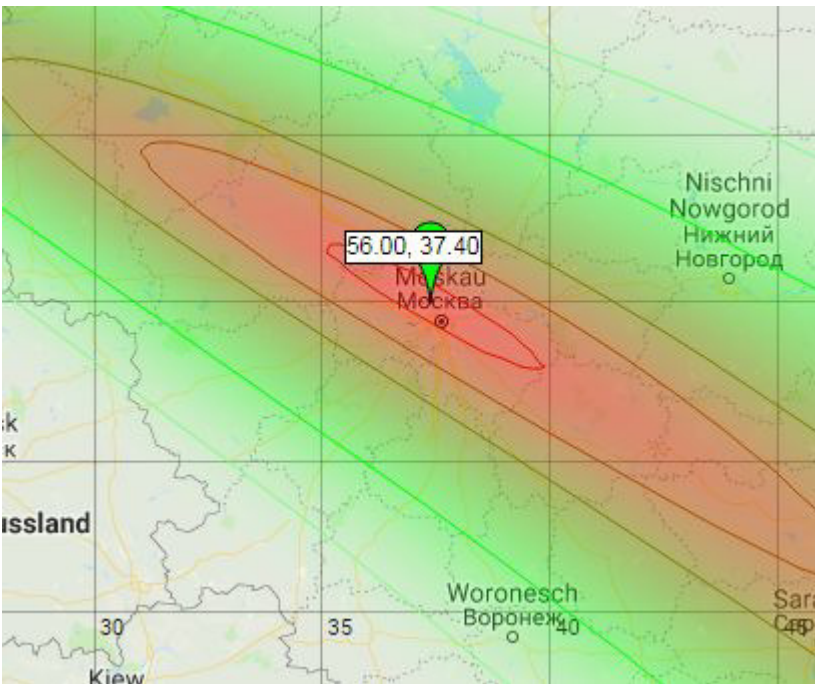
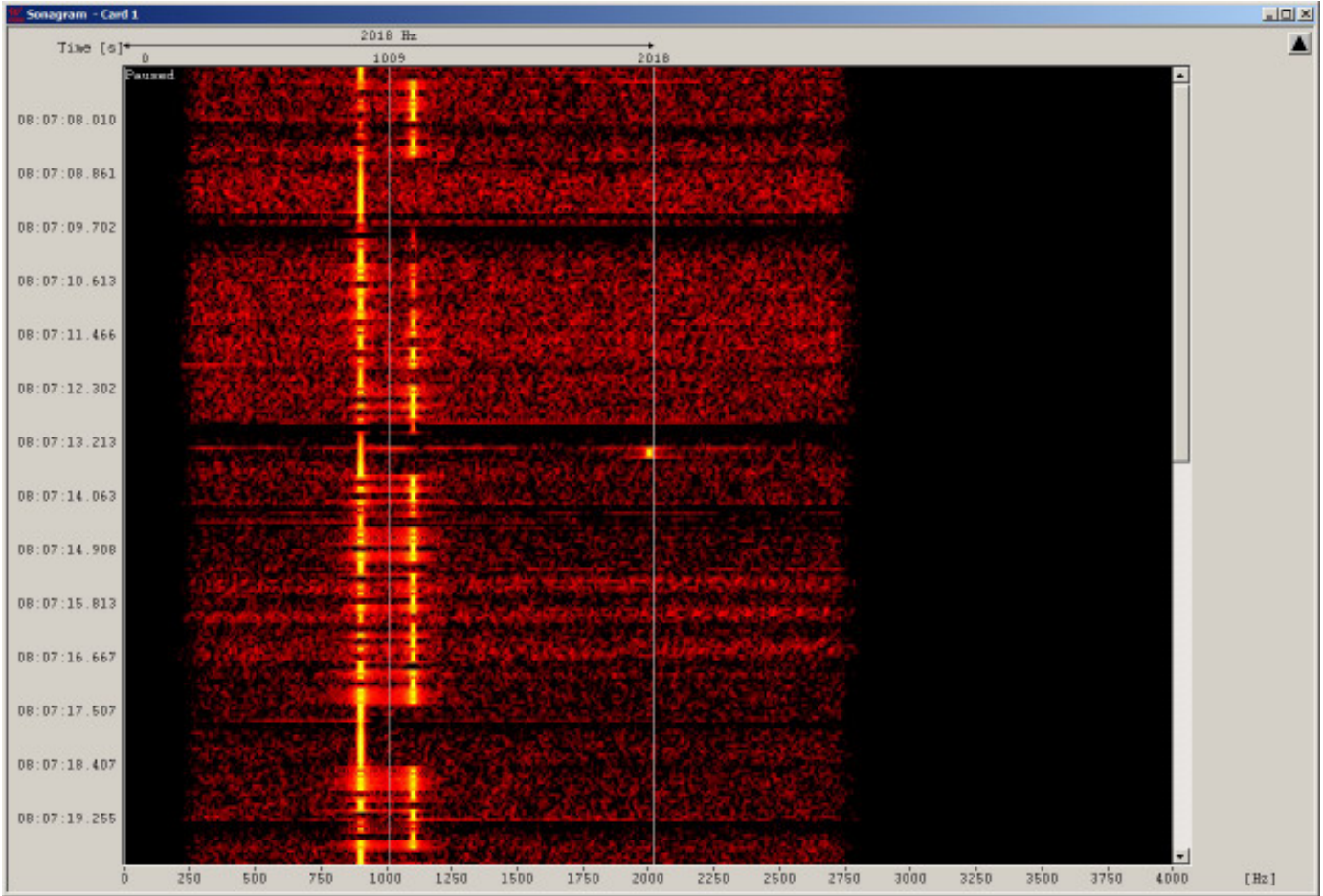
kHz	UTC	DATE	ITU	IDENT	MODE	BD	SH	DETAILS
3535.000	2010	15.08.18	E		USB			Spanish fishery
3585.000	1827	17.08.18	E		USB			Spanish fishery + scrambler CRY 2001
5351.500	1855	12.08.18	RUS		FMOP		50k	radar "Sunflower" – 43 sps - Makhachkala
7000.900	0800	15.08.18	RUS		OFDM	29.6	2750	OFDM 60 – PSK4B - Kaluga
7032.170	1630	16.08.18	RUS		unid			pulsing carrier - Sevastopol
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
7089.800	2030	29.07.18	TUR		PSK8A	2400	2400	LINK11-SLEW – west of Izmir
7120.000	1600	dly	SOM		A3E/BC			Radio Hargeisa – Somalia – active again
7122.000	ady	16.08.18	RUS		F1B	75	250	Moscow
7130.800	0712	19.08.18	I		PSK8A	2400	2400	Stanag-4285 – 600 bps long - Rome
7140.022	1510	dly	ERI		A3E		9k	Radio Eritrea without QRM
7162.000	1400	15.08.18	RUS		F1B	75	250	Moscow
7176.000	1706	18.08.18	RUS		F1B	75	250	Moscow
7182.000	ady	19.08.18	RUS	RDL	F1A		200	RUS navy - Kaliningrad - screenshot
7186.000	0630	09.08.18	RUS		PSK2A	120	2600	AT3004D – Severomorsk
14008.000	0940	06.08.18	RUS		F1B	50	250	Moscow
14026.000	0940	14.08.18	RUS		PSK2A	120	2600	AT3004D - Moscow
14108.000	0820	07.08.18	RUS		A1A			RUS MIL – area of Moscow
14116.000	0735	10.08.18	RUS		F1B	50	250	Moscow – DF screenshot
14171.000	0718	13.08.18	RUS		PSK2A	120	2600	AT3004D - Moscow
14192.000	vt	dly	RUS		F1B	50	200	RUS navy Kaliningrad - daily
14221.000	vt	dly	KGZ		F1B	50	200	Kyrgyzstan – Bishkek – mostly idling
14262.000	1244	16.08.18	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps
14292.000	1245	16.08.18	RUS	6WOL	A1A			CW encrypted - Jekaterinburg
18080.000	0720	19.08.18	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	0945	06.08.18	RUS	RCV	A1A			navy Sevastopol – RCV – RKZ - RJV
28195.000	1230	03.08.18	RUS		F3E			RUS taxi – north of Moscow
28850.000	0630	18.06.18	IRN		AM-puls		55k	Iran radar – 306 and 870 sps
28860.000	0715	19.08.18	IRN		AM-puls			Iran radar – 150 and 313 sps
29499.974	0846	03.07.18	G		F1B	81.9	140	Datawell-buoy "Waverider" - Gibraltar

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, FMCW
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
10140.0 – USB – Moroccan fishery – daily, all day
Many fishnet buoys between 28000 and 28500 kHz from southwest! (carrier + CW-ident)

7182.0 kHz (Center) - 0821 utc - F1A – shift 200 Hz - (CW msgs on 7182.1 kHz) – ident “RDL”
Russian navy Kaliningrad – daily, all day
Screenshot: DK2OM with Wavecom W-Code – sonagram showing the F1A



Russian MIL F1B on 14116.0 kHz
50 Bd - 250 Hz shift -
location Moscow
DF: DK2OM with SDR Kiwi TDoA
direction finder
at 1005 utc on August 10th

<https://sdr.hu/>

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

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