



Monitoring System

Observe the screenshots and comments below!

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

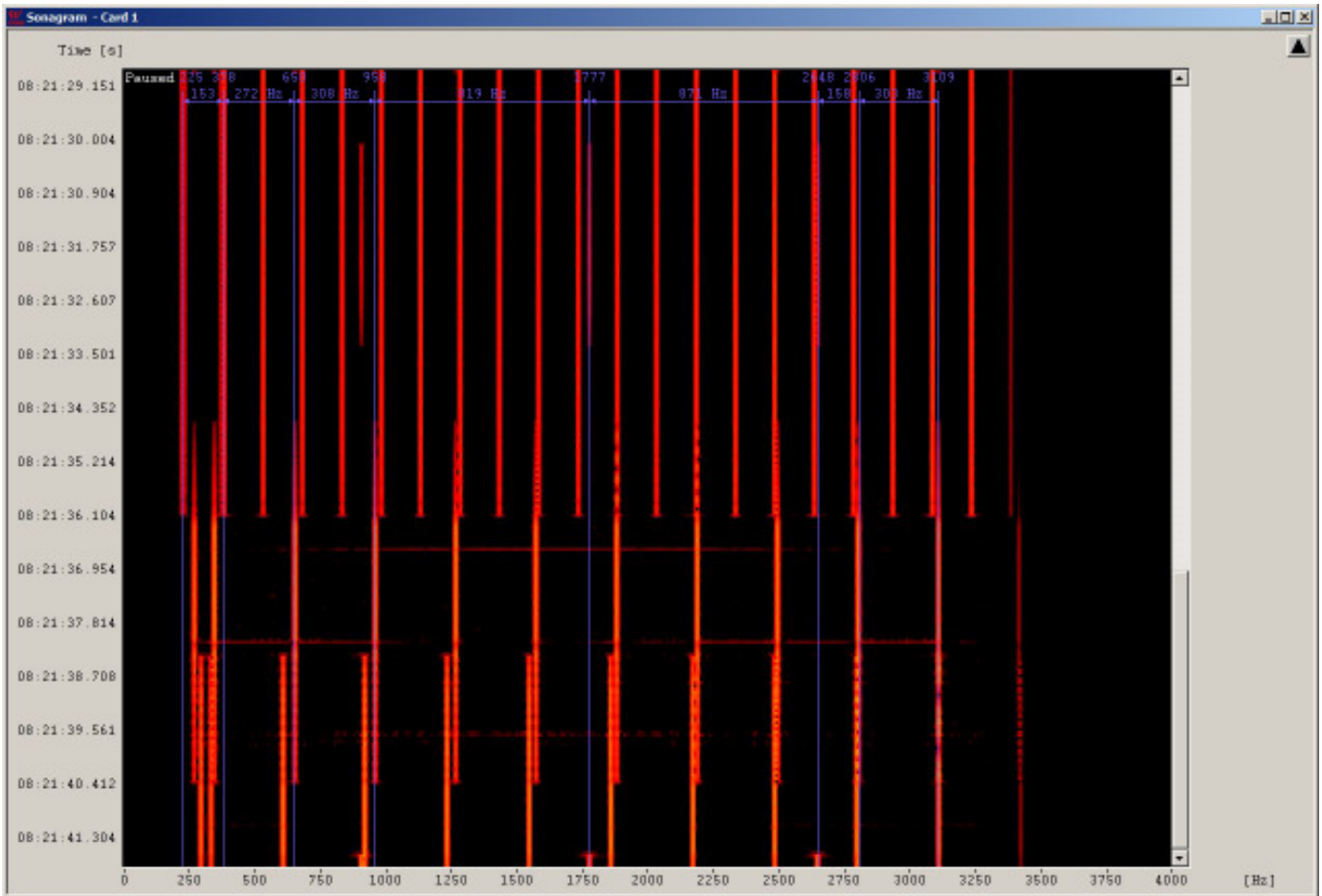
kHz	UTC	DATE	ITU	IDENT	MODE	BD	SH	DETAILS
3586.600	2040	16.07.18	E		USB			Spanish fishery
5351.500	1840	13.07.18	RUS		FMOP		50k	radar "Sunflower" – 43 sps - Makhachkala
5361.800	0640	05.06.18	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – DNK Navy Aarhus – legal!
7001.000	2002	10.07.18	Af		USB			fishermen – NW Africa
7016.000	1420	11.07.18	RUS		F1B	100	250	very unclean - Moscow
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
7057.000	0711	13.07.18	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
7120.000	1500	07.07.18	SOM		A3E/BC			Radio Hargeisa – Somalia – active again
7140.000	0923	14.07.18	RUS		PSK2A	120	2600	AT3004D – Kaliningrad
7180.023	1510	dly	ERI		A3E		9k	Radio Eritrea without QRM
7186.000	0830	14.07.18	RUS		PSK2A	120	2600	AT3004D – Severomorsk
7200.000	0830	28.05.18	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
7200.000	1704	12.07.18	RUS		PSK2A	120	2600	RF 7198.0 kHz - AT3004D - Kaliningrad
10121.600	1930	14.07.18	AF		USB			unid pirates – NW Africa?
10140.000	1221	13.07.18	MRC		USB			Moroccan fishery
13998.000	1302	09-06.18	RUS		MFSK	65.8	2620	MFSK- 16 - area of Moscow - screenshot
14008.000	0845	12.07.18	RUS		F1B	50	250	Moscow
14050.000	0800	18.07.18	RUS		F1B	75	200	Moscow
14116.000	0820	18.07.18	RUS		F1B	75	250	Moscow
14171.000	0820	16.07.18	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
14234.000	0812	17.07.18	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps
18080.000	0630	18.07.18	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	0845	12.07.18	RUS	RCV	A1A			navy – Sevastopol – RCV – RKZ - RJV
21446.000	0821	15.07.18	CHN		FMOP		10k	Chinese OTH radar – 66 sps - foghorn
28175.000	0640	29.06.18	RUS		F3E			RUS taxi
28850.000	0630	18.06.18	IRN		AM-puls		55k	Iran radar – 306 and 870 sps - screenshot
28860.000	1230	18.07.18	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

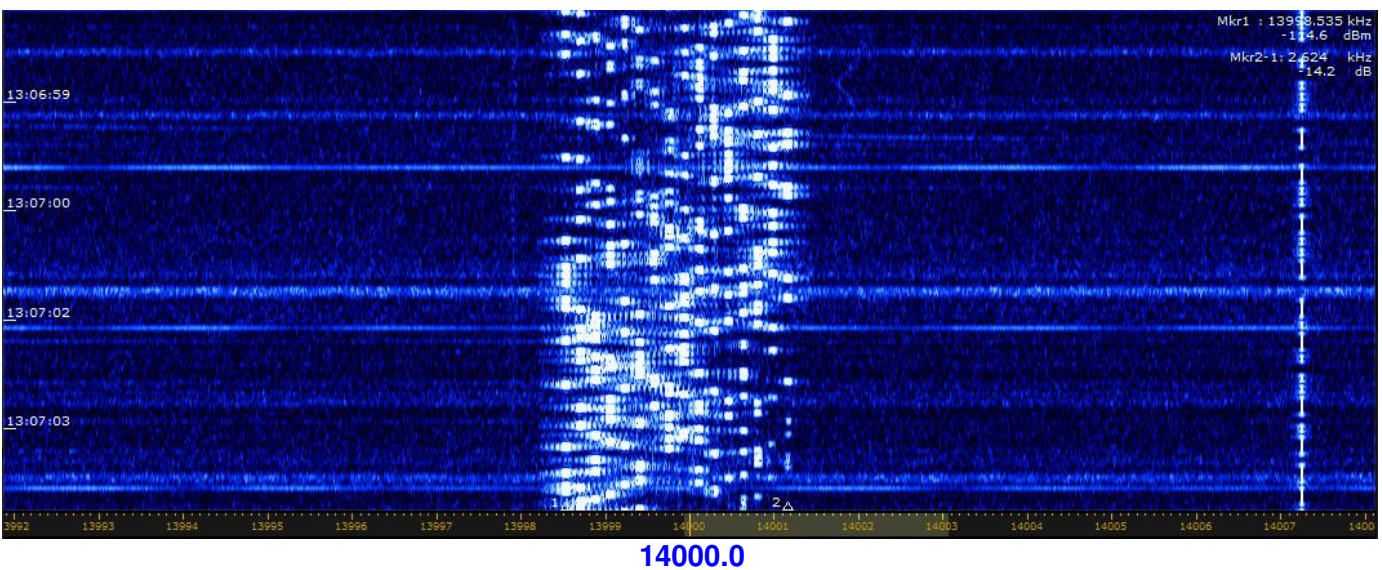
Notice board:

Please note: All digital mode frequencies are center frequencies. Exceptions are mentioned!
USB: 3500 - 3535 – 3550 – 3555 - 3560 – 5350 – 5360 - 7000 - 10125 - Spanish fishery very often
Illegal BCs: 7120 -> Radio Hargaysa Somalia ++ 7180 -> Radio Eritrea ++ 7200 -> Myanmar Radio
18080 -> Sound of Hope (Taiwan) + CHN jammer
28000 – 29700 kHz – CIS taxis in FM – daily ++ 28000 USB pirate meeting point
Many fishnet buoys between 28000 and 28500 kHz from southwest! (carrier + CW-ident)

Iran radar on 28850 kHz center – AM-pulse - 55 kHz wide – on June 9th at 0821 utc
Screenshot: DK2OM with Wavecom W-Code – sonagram showing
different sweeprates – 2 or 3 systems visible at the same time



Russian MIL modem MFSK-16 (16 tones) – 13998.0 kHz RF (USB) - 65.8 Bd - 2620 Hz shift
location area of Moscow
Screenshot: DK2OM with Perseus on June 09th 2018 at 1302 utc



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