



Monitoring System

Observe the screenshots and comments below!

Intruders from: **June 22nd 2018** - persistent or earlier: black – recent: blue - new: red

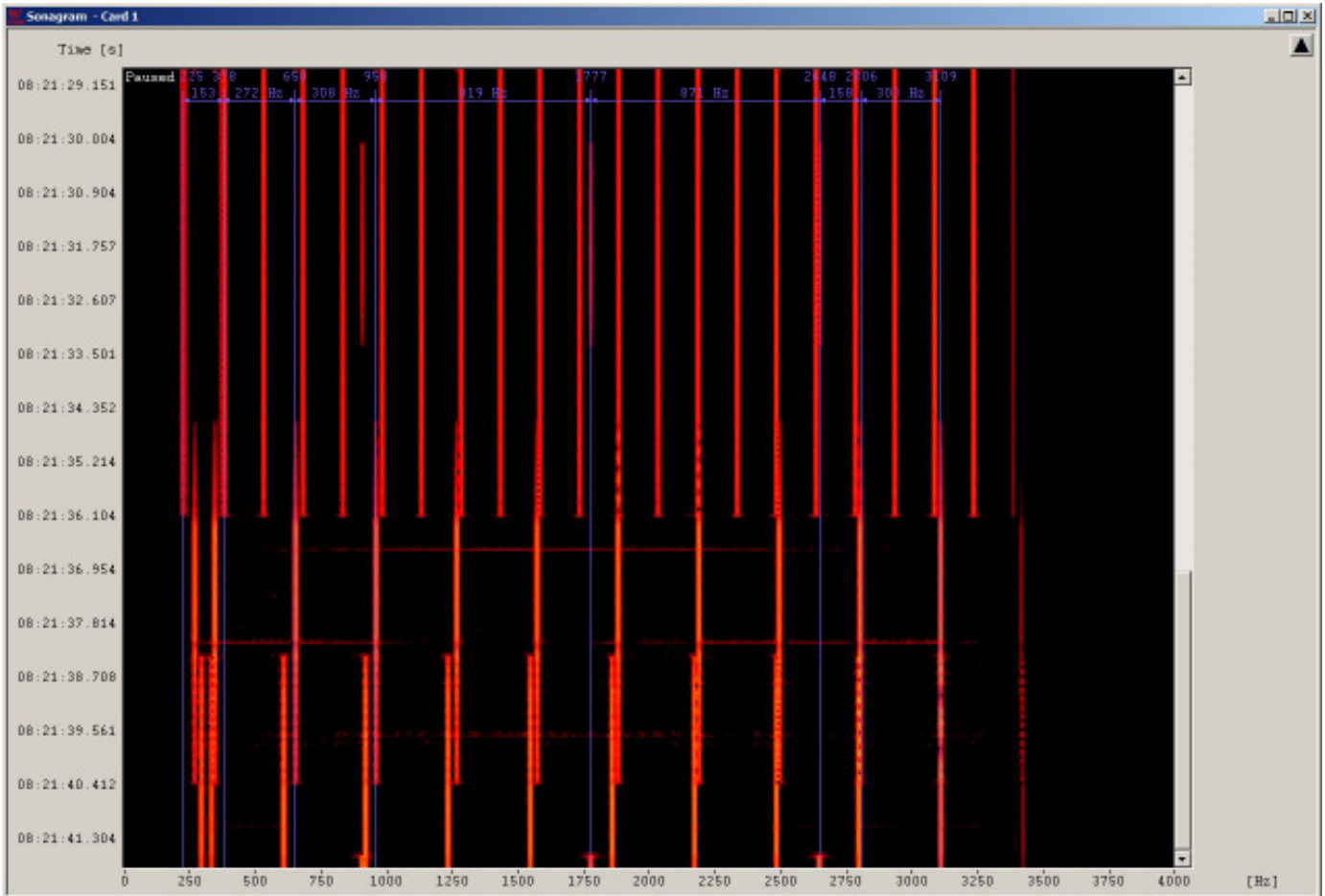
kHz	UTC	DATE	ITU	IDENT	MODE	BD	SH	DETAILS
3517.300	2000	11.05.18	E	names	LSB			Galician fishery – ship noise
3560.000	1950	12.06.18	E		USB			Spanish fishery
5355.650	1927	12.06.18	BSea		PSK4	75	2310	Link11-CLEW – ship – Black Sea - legal
5361.800	0640	05.06.18	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – DNK Navy Aarhus – legal!
7020.000	1909	20.06.18	RUS		F1B	75	250	Kaliningrad
7032.172	1438	19.06.18	RUS		N0N?			broken signal ? - Sevastopol
7038.800	0700	31.05.18	RUS	“P”	A1A			beacon „P“ – „RMP“ Kaliningrad
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
7078.000	0827	15.06.18	RUS		PSK2A	120	2600	AT3004D – Kaliningrad
7120.000	1500	dly	SOM		A3E/BC			Radio Hargeisa – Somalia – now off
7122.000	1900	19.06.18	RUS		F1B	50	250	AT3004D - Kaliningrad
7140.000	0900	11.06.18	RUS		PSK2A	120	2600	AT3004D – St. Peterburg
7180.023	1510	dly	ERI		A3E		9k	Radio Eritrea
7200.000	0830	28.05.18	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
13998.000	1302	09-06.18	RUS		MFSK	65.8	2620	MFSK- 16 - area of Moscow - screenshot
14008.000	0840	14.06.18	RUS		F1B	50	250	Moscow
14108.000	1006	21.06.18	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps
14109.400	0750	12.05.18	RUS		F1B	600	600	DPRK-FSK 600 – DPRK emba - Moscow
14133.000	0851	17.06.18	CHN		FMOP		160k	CHN OTH radar – 14133 – 14293 kHz
14192.000	1320	21.05.18	RUS		F1B	50	200	RUS navy Kaliningrad - daily
14221.000	2012	29.05.18	KGZ		F1B	41.5	200	Kyrgyzstan – Bishkek – every evening
14242.000	1700	21.06.18	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps
14257.000	0948	12.06.18	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps
14258.400	0738	22.06.18	RUS		F1B	50	250	Moscow
14260.000	0805	21.09.17	UKR		A3E			encrypted msgs – SZRU in Rivne
18080.000	0630	22.06.18	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	0840	19.05.18	RUS	RCV	A1A			RUS navy – Sevastopol – RCV – RIP90
28005.000	1940	07.06.18	B		A3E			Brazilian CBers – 28005 – 28325 kHz
28335.000	1734	13.06.18	E		A3E			Spanish pirates on AM and FM
28850.000	0630	18.06.18	IRN		AM-puls		55k	Iran radar – 306 and 870 sps - screenshot

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

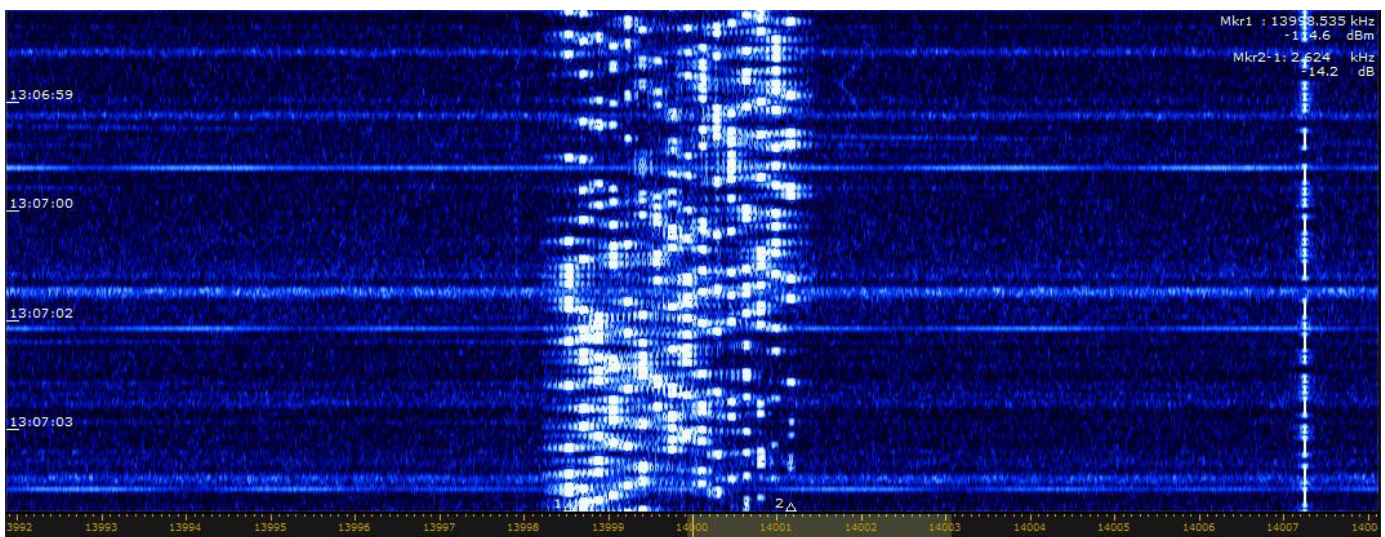
Notice board:

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 ++
Radio Taiwan and Chinese BC jammer ++ 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



14000.0

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

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