



Monitoring System

Observe the screenshots and comments below!

Intruders from: **April 25th 2018** - persistent or earlier: black – recent: blue - new: red

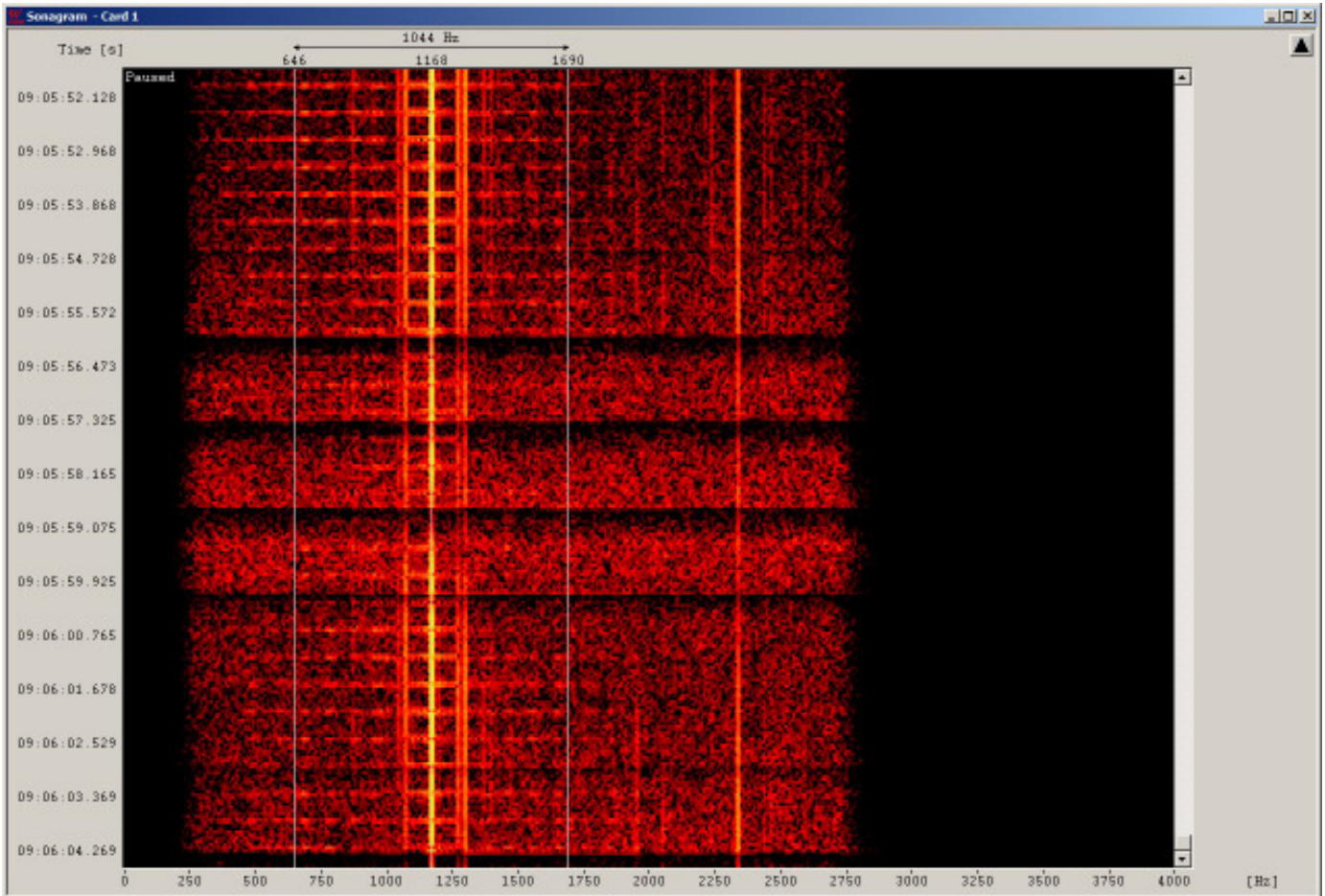
kHz	UTC	DATE	ITU	IDENT	MODE	BD	SH	DETAILS
3537.000	1830	23.04.18	E		USB			Spanish fishery
5350.000	2035	20.04.18	E		USB			Spanish fishery – splattering up
5350.000	1800	11.04.18	RUS		FMOP		90k	Russian coastal radar - screenshot
5355.000	1925	18.04.18	RUS		PSK2A	120	2600	AT3004D – Dnepropetrovsk - legal user!
5361.800	ady	25.04.18	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – DNK Navy Aarhus – legal!
7032.000	0700	21.04.18	RUS		PSK2A		3.5k	AT3004D – open channel - screenshot
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
7081.800	1910	16.04.18	EGY		PSK2A	2400	2400	unid burst system - Egypt
7120.000	2026	14.04.18	CYP		PSK4	75	5800	LINK11-CLEW – DSB – area of Cyprus
7120.000	1500	dly	SOM		A3E/BC			Radio Hargeisa - Somalia
7140.024	1510	dly	ERI		A3E		9k	Radio Eritrea + QRM by Radio Ethiopia
7146.000	1406	12.04.18	CHN		FMOP		10k	CHN OTH radar – 67 sps – 3.8 sec bursts
7181.555	1510	dly	ERI		A3E		9k	Radio Eritrea + QRM by Radio Ethiopia
13999.000	0757	24.04.18	RUS		PSK2/4	120	2600	AT3004D – Ryazan – splattering up
14113.400	1420	19.04.18	SYR		F1B	600	600	DPRK-FSK 600 – DPRK emba - Damaskus
14144.000	1036	25.04.18	RUS		PSK2A	120	2600	AT3004D - Moscow
14184.000	1003	22.04.18	CHN		FMOP		160k	CHN OTH wideband radar – 10 sps
14192.000	0830	10.04.18	RUS		F1B	50	200	RUS navy Kaliningrad
14221.000	2000	dly	KGZ		F1B	50	200	Kyrgyzstan – Bishkek – every evening
14260.000	0805	21.09.17	UKR		A3E			encrypted msgs – SZRU in Rivne
14289.000	0847	11.04.18	CHN		FMOP		10k	CHN OTH radar – 67 sps – 3.8 sec bursts
14306.000	0835	03.04.18	RUS		PSK2A	120	2600	AT3004D - Samara
14312.000	0960	24.04.18	CHN		FMOP		10k	CHN OTH radar – 50 sps – 5.0 sec bursts
14329.000	0954	08.04.18	CHN		FMOP		10k	CHN OTH radar – 67 sps – 3.8 sec bursts
14341.000	0920	17.04.18	CHN		FMOP		10k	CHN OTH radar – 67 sps – 3.8 sec bursts
18080.000	0750	11.04.18	TWN		A3E		9k	Sound of Hope TWN + CHN jammer
18107.000	vt	vd	RUS	RDL	F1B	50	200	Moscow – RUS navy – shared band!
21438.000	0948	15.11.17	RUS	RCV	A1A			RUS navy - Sevastopol
28085.000	ady	dly	POR		F1B	51	300	Enagal GPS buoys – Atlantic Ocean
28960.000	0850	18.11.17	IRN		FMOP		50k	Iranian radar bursts – 150 and 313 sps
29400.000	0940	18.11.17	IRN		FMOP		50k	Iranian radar bursts

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:

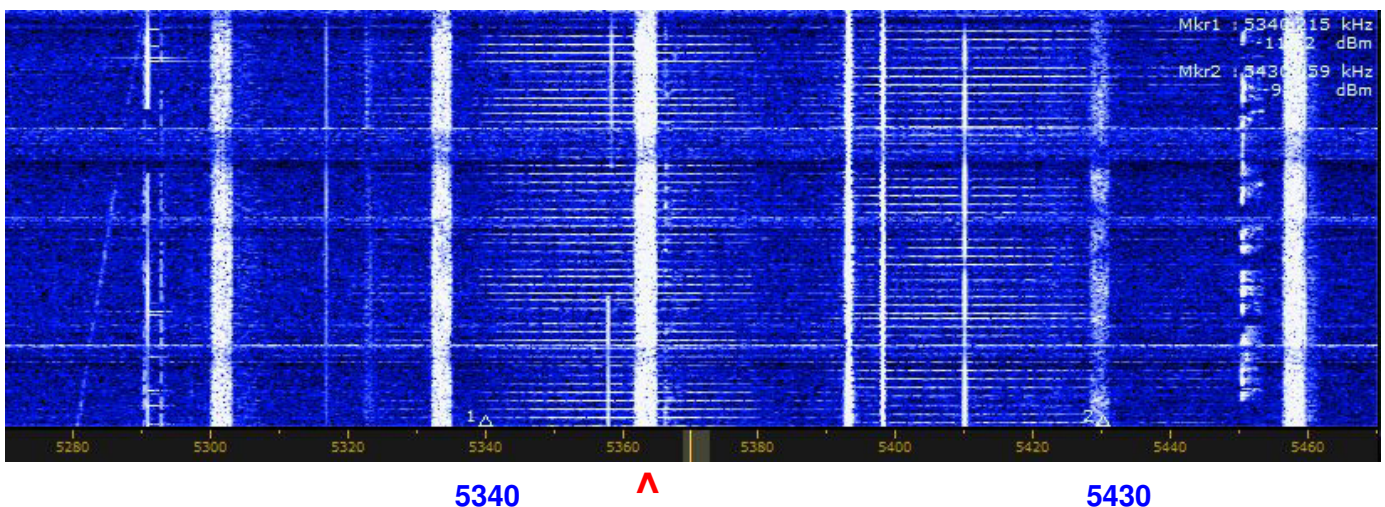
Please note: All digital mode frequencies are center frequencies. Exceptions are mentioned!
USB: 3500 - 3535 – 3550 – 3555 - 3560 – 5350 – 5360 - 7000 - 10125 - Spanish fishery very often
Illegal BCs: 7120 -> Radio Hargaysa Somalia ++ 7200 -> Radio Taiwan and Chinese jammer ++ 18080 ->
Sound of Hope (Taiwan) + CHN jammer ++ 7140 and 7180 -> Radio Eritrea + QRM by Radio Ethiopia
28000 – 29700 kHz – crowded of CIS taxis in FM – daily (not audible at this time)

**AT3004D – open channel - on 7032 kHz – 3.5 kHz wide - at 0900 utc on April 18th – location Sevastopol - Crimea, RUS
Screenshot: DK2OM with Wavecom W-Code**



**Russian coastal radar “Sunflower” – FMOP – 43 sps – covering 90 kHz (5340 – 5430 kHz)
daily since March 3rd – location Makhachkala – Caspian Sea**

Screenshot: DK2OM with Perseus on March 9th 2018 at 1835 utc



red marker = Stanag-4285 on 5361.8 kHz from Denmark (primary user)

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