



Monitoring System

Observe the screenshots and comments below!

Intruders from: **November 16th 2018** - persistent or earlier: black – recent: blue - new: red

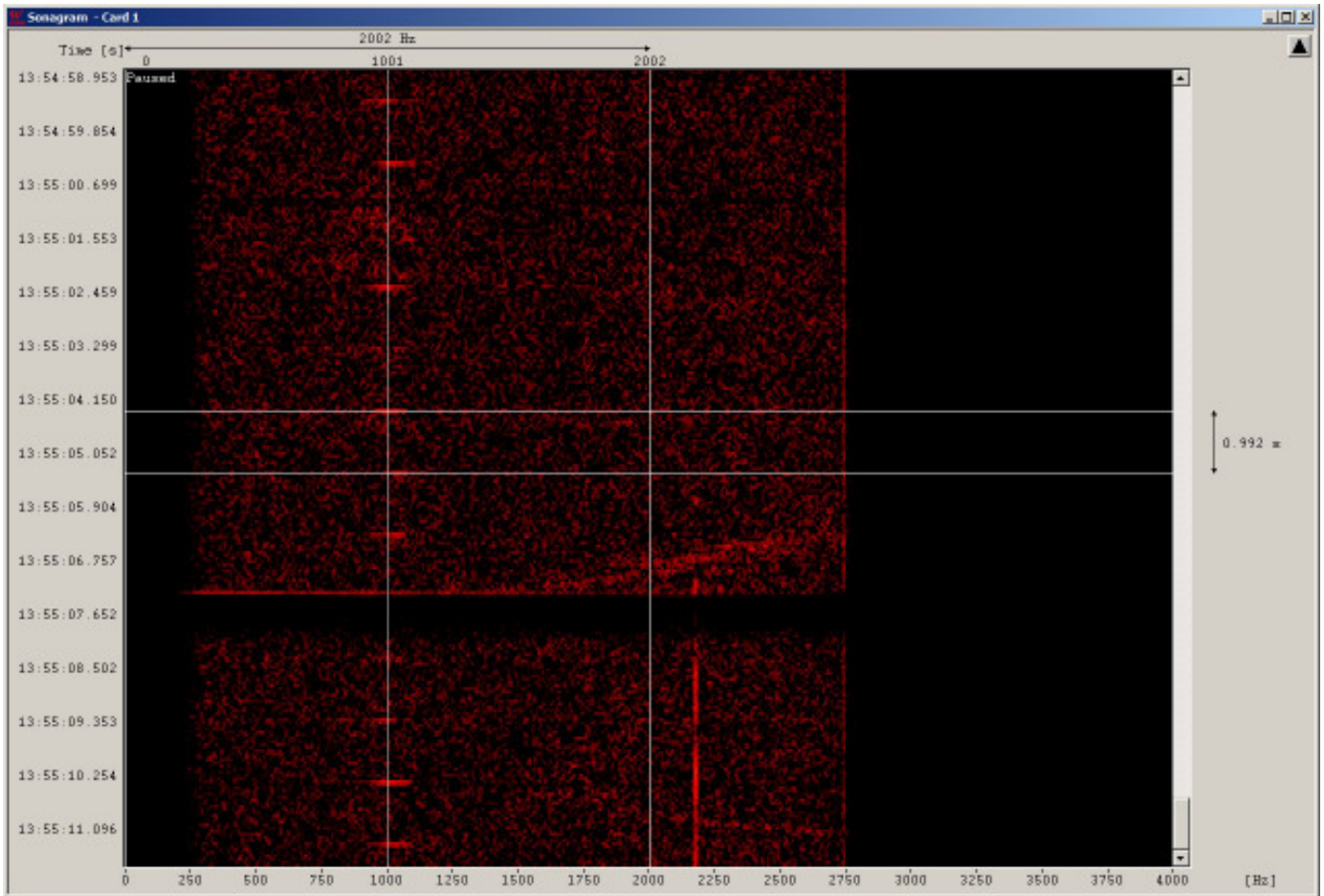
kHz	UTC	DATE	ITU	IDENT	MODE	BD	SH	DETAILS
3525.000	0750	09.11.18	F		PSK8A	2400	6000	LINK11-SLEW – DSB mode - screenshot
3585.000	1827	17.08.18	E		USB			Spanish fishery + scrambler CRY 2001
5355.000	2045	14.11.18	RUS		FMOP		50k	coastal radar – 43 sps - Makhachkala
5361.800	0800	07.10.18	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – Danish navy Aarhus – legal
7000.000	1410	23.10.18	RUS		PSK2A	120	2600	Moscow
7001.800	ady	03.11.18	POL		PSK8A	2400	2400	MIL-188-110B – bursts – Polish MIL
7030.000	0840	16.11.18	RUS		F1B	50	250	Moscow
7036.000	1605	08.11.18	RUS		F1B	50	250	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
7110.400	1902	25.10.18	ISR		PSK4/8	2400	2400	Israel navy hybrid modem
7120.000	1500	16.11.18	SOM		A3E		9k	Radio Hargeisa Somali Land
7140.024	1700	16.11.18	ERI		A3E/BC		9k	Radio Eritrea
7179.000	0950	15.11.18	RUS		F1B	75	200	disturbed by a German HAM with dashes
7180.022	1530	16.11.18	ERI		A3E/BC		9k	Radio Eritrea
7182.000	1420	18.09.18	RUS	RDL	F1A		200	RUS navy - Moscow
7193.000	1435	15.11.18	RUS	RDL	F1B	50	200	Kaliningrad
7200.000	1404	31.10.18	RUS		PSK2A	120	2600	RUS ship west of Estonia
10115.000	1355	16.11.18			A1A			mysterious pips - screenshot
14000.000	1445	23.10.18	RUS		PSK2A	120	5200	AT3004D – 2 nd from 7000.0 – 24 tones
14008.000	1106	31.10.18	RUS		F1B	50	500	Moscow
14026.000	0940	14.08.18	RUS		PSK2A	120	2600	AT3004D - Moscow
14160.000	0850	14.09.18	RUS		F1B	50	250	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
14300.000	0812	11.11.18	CHN		FMOP		40k	CHN OTH radar – 20 sps – NE China
14308.000	0825	09.11.18	RUS		F1B	50	500	50 Bd and 75 Bd – Moscow
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
28000.000	0950	12.11.18	RUS		F3E			RUS taxi
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:

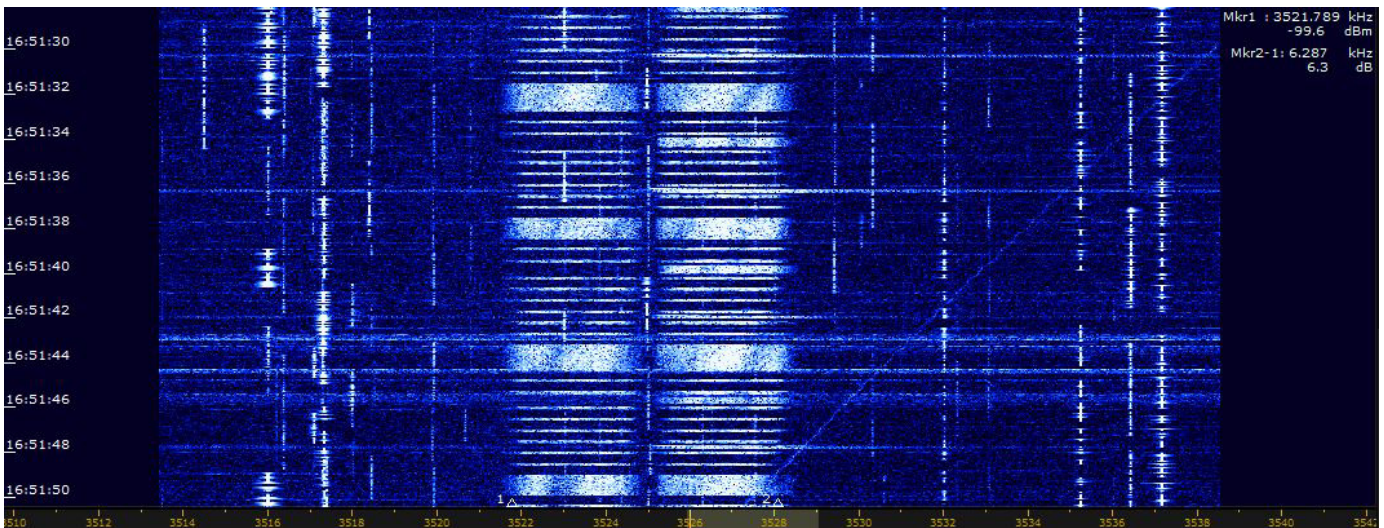
Please note: All digital mode frequencies are center frequencies. Exceptions are mentioned!
USB: 3500 - 3535 – 3550 – 3555 - 3560 – 3585 - 5350 – 5360 - 7000 – 7050 - 10125 - Spanish fishery
Illegal BCs: 7120 -> Radio Hargaysa Somalia ++ 7180 -> Radio Eritrea ++ 7200 -> Myanmar Radio
18080 -> Sound of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

10115.0 kHz – A1A – mysterious “pips” at 1354 utc on Nov. 16th 2018 – USA?
screenshot: DK2OM with Wavecom W-Code – sonagram showings pips every second



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3525.0 – center - LINK11-SLEW on DSB mode – PSK8A – 2400 Bd – 6000 Hz wide
area of Marseille – Nov. 8th at 1651 utc – legal, shared band!



3525.0

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

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