



Monitoring System

Observe the screenshots and comments below!

Intruders from: **February 18th 2019** - persistent or earlier: black – recent: blue - new: red

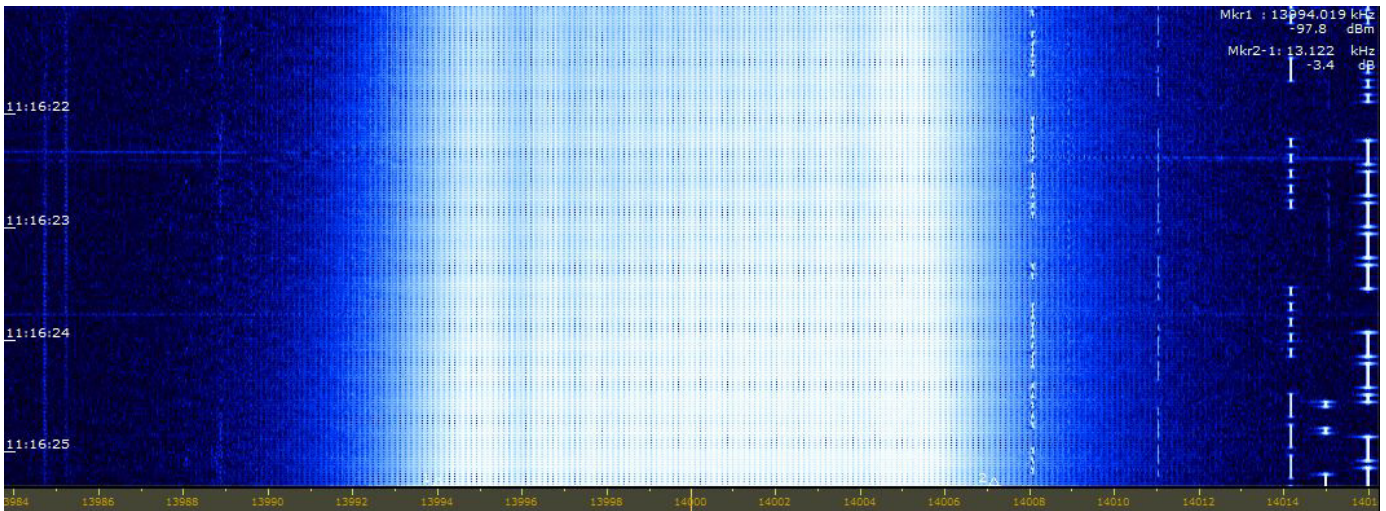
kHz	UTC	DATE	ITU	IDENT	MODE	BD	SH	DETAILS
5350.000	1800	18.02.19	RUS		FMOP		50k	coastal radar – 43 sps - Makhachkala
5352.000	1330	25.01.19	RUS		PSK2A	120	2600	Kaliningrad - legal
5361.800	1510	17.12.18	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – legal
7000.000	1515	dly	INS		LSB			Indonesian pirates - splattering up
7001.000	0815	04.02.19	MRC		LSB			Moroccan fishery
7010.000	1040	04.02.19	RUS		PSK2A	120	2600	AT3004D - Moscow
7022.000	1343	14.02.19	RUS		PSK4B	120	2600	AT3104D – Moscow
7030.000	0715	10.01.19	F		USB			French fishery chatting
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
7050.500	0850	05.02.19	RUS		PSK2A	120	2600	AT3004D – area of St. Peterburg
7051.000	0920	16.01.19	RUS		F1B	50	500	Moscow
7098.000	0838	12.02.19	RUS		F1B	75	250	Moscow
7140.024	1630	dly	ERI		A3E/BC		9k	Radio Eritrea
7180.022	1630	dly	ERI		A3E/BC		9k	Radio Eritrea
7193.000	0806	09.02.19	RUS	RDL	F1B	50	200	Kaliningrad
7201.000	1509	15.02.19	RUS		PSK2A	120	2600	AT3004D - Moscow
10153.000	1446	15.02.19	RUS		FMOP		14k	OTH radar Contayner – 40 sps – Penza
14000.000	0810	09.02.19			USB			pirates – southwest from DL
14026.000	0914	13.12.18	RUS		PSK2A	120	2600	AT3004D - Moscow
14116.000	0907	15.02.19	RUS		F1B	50	250	Moscow
14117.000	1130	08.02.19	RUS		FMOP		12k	OTH radar Contayner – screenshots
14192.000	1620	08.02.19	RUS		F1B	50	200	RUS navy Kaliningrad - often
14221.000	vt	dly	KGZ		F1B	50	200	Kyrgyzstan – Bishkek – mostly idling
14240.000	0919	01.02.19	RUS		F1B	100	250	very unclean – idling - Ufa
14295.194	ady	dly	TJK		A3E		9k	3 rd from Radio Tajik on 4765 kHz
14308.000	0905	25.01.19	RUS		F1B	750	500	Moscow
14337.000	0920	06.01.19	CHN		FMOP		10k	CHN OTH radar – 50 sps – 2.4 and 4.9 sec
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
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

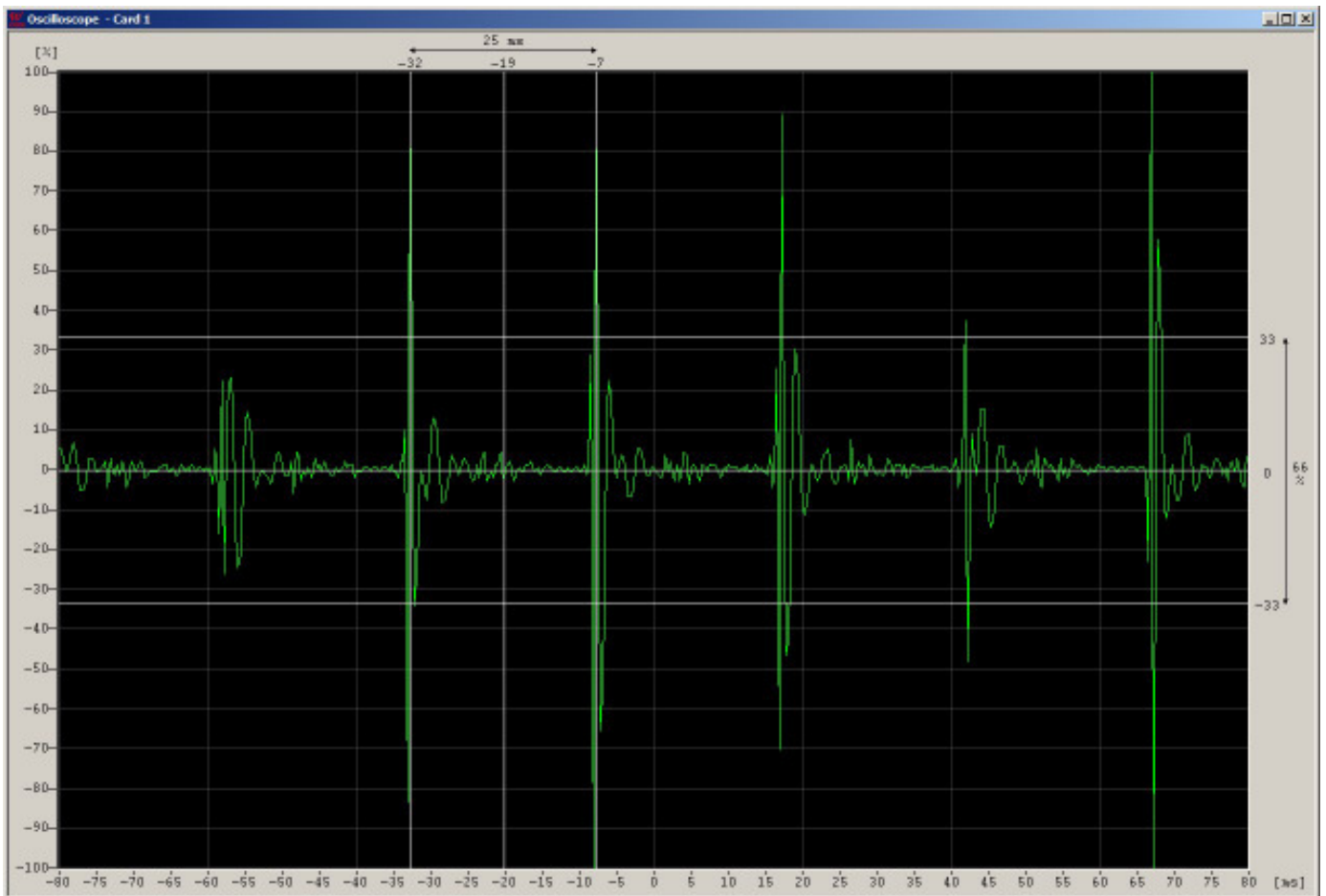
Notice board:

Please note: All digital mode frequencies are center frequencies. Exceptions are mentioned!
 USB: 3500 - 3516 – 7000 – 7035 - 7070 - 10125 - Spanish fishery – LSB: 7001.0 Moroccan fishery
 Illegal BCs: 7120 -> Radio Hargaisa Somalia ++ 7140 and 7180 -> Radio Eritrea
 ++ 18080 -> Sound of Hope (Taiwan) + CHN jammer
 Many fishnet buoys between 28000 and 28500 kHz from southwest (carrier + CW-ident) or GPS

Russian OTH radar Contayner – 14000 kHz - FMOP - 40 sps – 12 kHz wide – north of Penza
Feb. 1st 2019 utc at 1200 utc - screenshot: DK2OM with Perseus



Russian OTH radar Contayner – 14000 kHz - FMOP - 40 sps – measurement of the sweeprate (PRF)
by the W-Code Oscilloscope – 1000 msec : 25 msec = 40 sweeps/sec



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