



Monitoring System

Observe the screenshots, comments and credits below!

Intruders from: **June 23rd 2017** - persistent or earlier: black – recent: blue - new: red

kHz	UTC	DATE	ITU	IDENT	MODE	BD	SH	DETAILS
7001.000	0836	dly	POL		FSK8	125	1750	MIL-188-141A from 6998.5 – Polish MIL
7008.000	1530	17.04.17	RUS		F1B	75	250	Moscow
7039.200	ady	dly	RUS	“F”	A1A			beacon “K” – “RJS” - Vladivostok
7039.400	ady	dly	RUS	“M”	A1A			beacon “M” – “RTS” - Magadan - unclear
7091.543	ady	dly	KAZ	“V”	A1A			beacon “V” – Almaty
7105.000	2050	25.05.17	RUS		FMCW		13k	RUS OTH radar Contayner – 50 sps
7111.000	ady	dly	CHN		PSK4A	60	2400	LSB - PRC-30 (30 x 60 Bd) burst system
7120.000	1500	dly	SOM		A3E/BC			Radio Hargaysa - Somalia
7172.000	1904	17.05.17	RUS		PSK2A	120	2600	AT3004D – Penza
7179.000	1900	24.05.17	RUS		PSK2A	120	2600	AT3004D – RUS ship – area of Cyprus
13997.000	1852	31.05.17	RUS		FMCW		13k	RUS OTH radar Contayner – 50 sps
14008.000	1330	02.05.17	RUS		F1B	50	250	Moscow
14052.000	1324	04.05.17	RUS		PSK2A	120	2600	AT3004D – ship? – area of Gibraltar
14131.000	0856	23.06.17	CHN		FMOP		10k	OTH radar bursts – 66.66 sps (foghorn)
14180.000	1223	02.05.17	RUS	RDL	F1B	50	250	RUS navy Sevastopol
14184.000	0859	23.06.17	CHN		FMOP		10k	OTH radar bursts – 66.66 sps (foghorn)
14191.900	1844	24.05.17	RUS		F1B	50	400	RUS navy Kaliningrad
14199.000	1256	02.05.17	CHN		OFDM	44.4	2200	OFDM 39 – PSK4B – RF QRG!
14201.800	0915	23.06.17	CHN		PSK2	75	2200	PRC 16 x 75 Bd modem - Shanghai
14218.000	0954	26.05.17	RUS		PSK2A	120	6600	2 x AT3004d – DSB - Novosibirsk
14242.000	1240	19.05.17	RUS		PSK2A	120	2600	AT3004D - Moscow
14280.000	1005	16.11.16	UKR		A3E			encrypted msgs – SZRU in Rivne
14295.000	ady	dly	TJK		A3E		9k	3 rd from 4765 – Radio Tajikistan
18080.000	0800	21.06.17	TWN		A3E		9k	Sound of Hope Taiwan + CHN jammer
18107.000	vt	dly	RUS	RDL	F1B	50	200	Moscow – RUS navy – shared band!
21000.000	1220	08.04.17	B		USB			Brazilian pirates
21097.000	1227	11.06.17	CHN		FMCW		160k	wideband OTH radar – 21097 – 21257 kHz
21232.000	0712	21.06.17	CHN		FMOP		10k	OTH radar bursts – 66.66 sps (foghorn)
21438.000	1629	16.5.17	RUS	RCV	CW			RCV, RIP90 – RUS Navy Sevastopol
28085.000	ady	dly	POR		F1B	51	300	Enagal GPS buoys – Atlantic Ocean
28600.000	0830	06.06.17	IRN		FMOP		50k	Iranian radar bursts – 307 and 870 sps
28960.000	0730	21.06.17	IRN		FMOP		50k	Iranian radar – screenshots
29249.880	0940	05.06.17	E		F1B	81.9	140	Datawell buoy - Fuerteventura

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!

7000 USB - 3590 USB – 10125 USB - Spanish fishery often

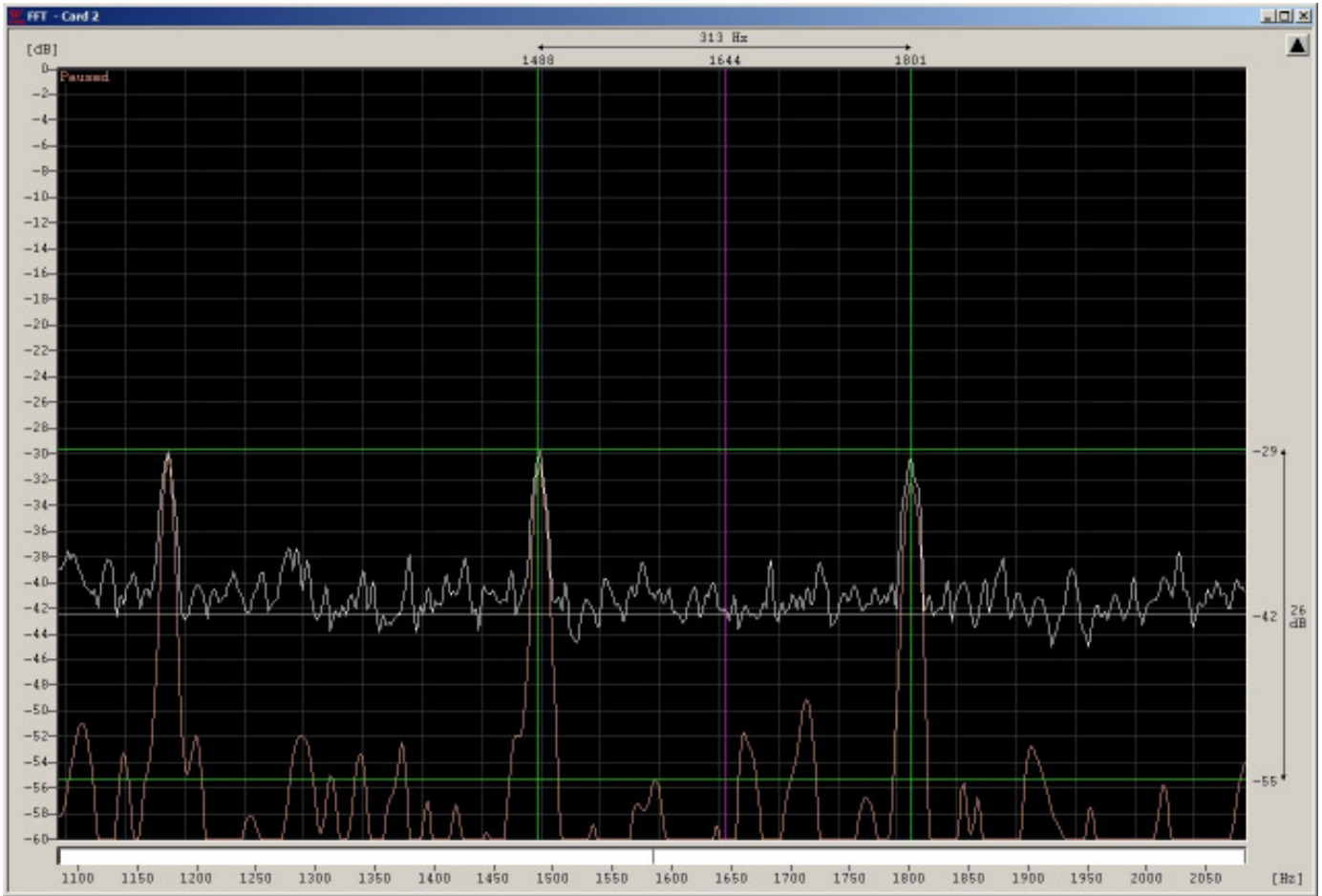
Illegal BCs: 7120 -> Radio Hargaysa Somalia ++ 7200 -> Radio Taiwan and Chinese jammer ++ 18080 -> Sound of Hope (Taiwan) + CHN jammer

28000 – 29700 kHz – crowded of CIS taxis in FM – daily – Sporadic E now!

28000 – 29700 – Datawell buoys “Waverider” - 81.9 Bd - 140 Hz shift ++ Enagal GPS buoys 51 Bd – 300 Hz shift bursts

Radar Iran on 28960 kHz– mode: FMOP – alternating blocks of 150 and 313 sweeps/sec about 50 kHz wide – 2 different tones audible on SSB

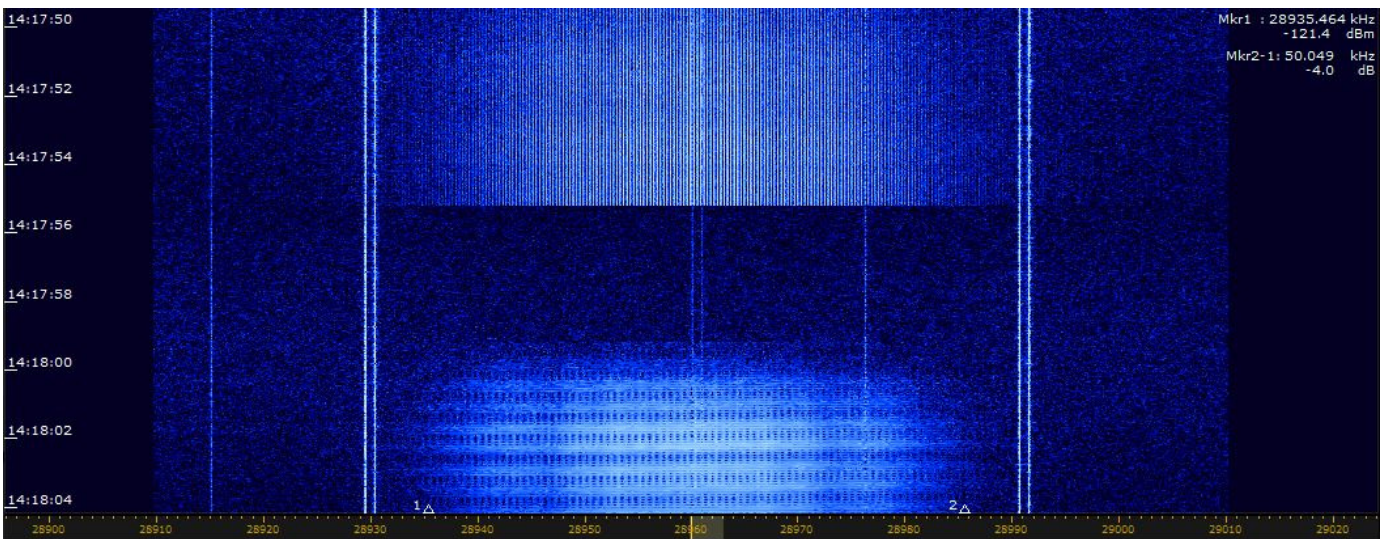
Screenshot: Wavcom W-Code (DK2OM) – showing the measurement by the FFT-option you can see the sweeprate of 313 sweeps/sec – May 31st 20176 at 0700 UTC



←----- 313 Hz ----->

Iran radar on 28960 kHz on May 31st at 0700 utc

Screenshot: DK2OM with Perseus showing the blocks and the gap



28960

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

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