



Monitoring System

Observe the screenshots and comments below!

Intruders from: **September 19th 2017** - persistent or earlier: black – recent: blue - new: red

kHz	UTC	DATE	ITU	IDENT	MODE	BD	SH	DETAILS
3550.000	2000	daily	E	names	USB			Spanish fishery
5356.000	2020	19.09.17	E		USB			Spanis fishery with v.scrambler CRY 2001
7001.800	1600	18.09.17	TUR		PSK8A	2400	2400	Stanag-4285 – Istanbul - screenshot
7039.400	ady	dly	RUS	“M”	A1A			beacon “M” – “RTS” - Magadan - unclear
7091.543	ady	dly	KAZ	“V”	A1A			beacon “V” – Almaty
7104.800	0758	12.09.17	ROU		PSK8A	2400	2400	MIL-188-110A - Constanta - Romania
7112.000	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
7122.000	1435	12.09.17	RUS		PSK2A	120	2600	AT3004D - Moscow
7140.000	1510	dly	ERI		A3E		9k	Radio Eritrea + QRM by Radio Ethiopia
7162.000	1045	12.09.17	RUS		F1B	100	250	Moscow
7180.000	1510	dly	ERI		A3E		9k	Radio Eritrea + QRM by Radio Ethiopia
14026.000	0920	07.09.17	RUS		PSK2A	120	2600	AT3004D - Moscow
14060.000	0745	19.09.17	CHN		FMOP		160k	CHN wideband radar – screenshot
14108.000	1030	21.08.17	RUS	DJQU	A1A			RUS MIL – area of Moscow
14192.000	0745	13.08.17	RUS		F1B	50	200	RUS navy Kaliningrad
14201.800	ady	dly	CHN		PSK2	75	2200	PRC 16 x 75 Bd modem - Shanghai
14221.000	2050	dly	KGZ		F1B	50	200	Kyrgyzstan – Bishkek – every evening
14242.000	0820	19.09.17	RUS		PSK2A	120	2600	AT3004D - Moscow
14260.900	0840	14.09.17	RUS		OFDM	35.6	2760	OFDM 60 – PSK8B - 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
14340.000	0813	16.08.17	CHN		FMOP		10k	OTH radar bursts – 66.66 sps (foghorn)
14344.000	0848	10.09.17	CHN		FMOP		10k	OTH radar bursts – 66.66 sps (foghorn)
18080.000	0730	18.09.17	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
21166.000	0822	16.09.17	CHN		FMOP		10k	OTH radar bursts – 42 sps
21255.000	0828	16.09.17	CHN		FMOP		10k	OTH radar bursts – 50 sps
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
28960.000	0820	09.09.17	IRN		FMOP		50k	Iranian radar – screenshot
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, 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!

3535 USB – 3550 – 3560 – 5356 - 7000 - 10125 USB - Spanish fishery often

Illegal BCs: 7120 -> Radio Hargaysa Somalia ++ 7200 -> Radio Taiwan and Chinese jammer ++ 18080 ->

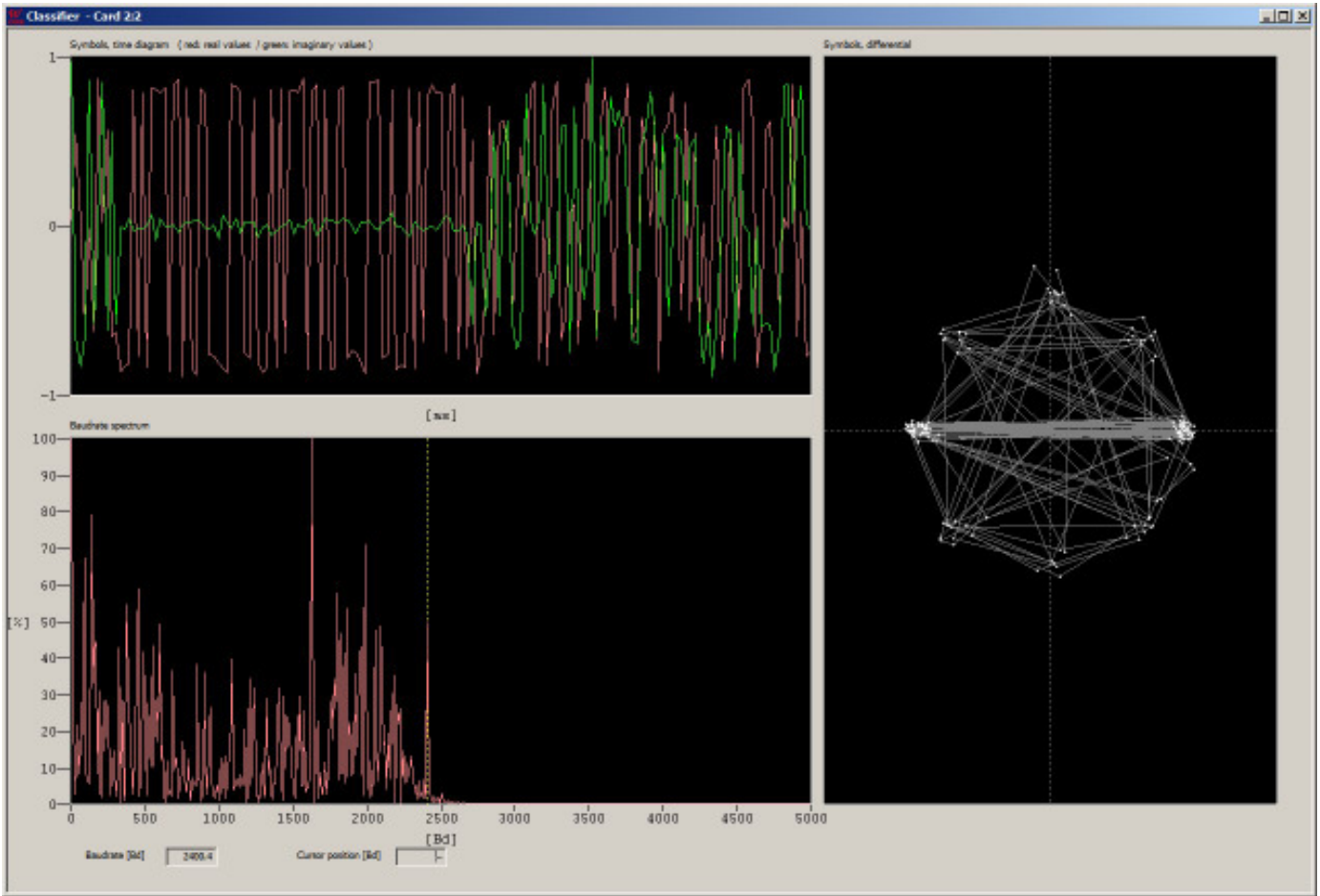
Sound of Hope (Taiwan) + CHN jammer ++ 7140 and 7180 -> Radio Eritrea + QRM by Radio Ethiopia

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

ZL1BAD previous IARU Region 3 Monitoring System Manager for 20 years passed away on Sept. 7th 2017.

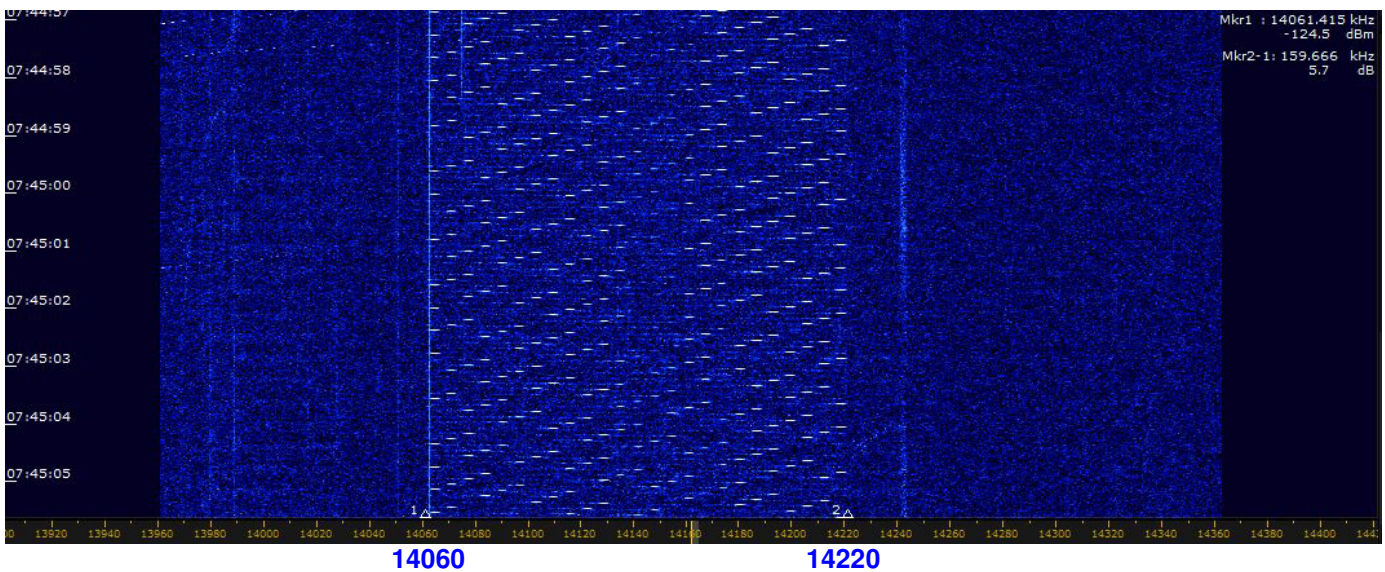
Stanag-4285 (PSK8A – 2400 Bd – 2400 Hz – 600 bps) from Turkey (Istanbul)
daily on 7001.8 kHz center

Screenshot: Wavecom W-Code (DK2OM) – showing phase plane



Chinese wideband OTH radar 14060 - 14220 kHz – 10 sps - on Sept. 9th at 0745 utc

Screenshot: DK2OM with Perseus



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

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