



Monitoring System

Observe the screenshots and comments below!

Intruders from: **October 16th 2017** - persistent or earlier: black – recent: blue - new: red

kHz	UTC	DATE	ITU	IDENT	MODE	BD	SH	DETAILS
3550.000	1900	daily	E	names	USB			Spanish fishery
7001.000	1952	12.10.17	CHN		FMOP		10k	Chinese OTH radar bursts – 50 sps
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
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	0703	16.10.17	RUS		F1B	75	250	Moscow
7180.000	1510	dly	ERI		A3E		9k	Radio Eritrea + QRM by Radio Ethiopia
14000.000	1500	05.10.17	FEa		USB			Far East pirates - daily
14026.000	0715	27.09.17	RUS		PSK2A	120	2600	AT3004D - Moscow
14108.000	1030	21.08.17	RUS	DJQU	A1A			RUS MIL – area of Moscow
14121.300	0900	04.10.17	CHN		PSK4B	75	2250	PRC4+4 – 8 x 75 Bd – traffic and idle
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	0816	11.10.17	RUS		PSK2A	120	2600	AT3004D - Moscow
14260.000	0805	21.09.17	UKR		A3E			encrypted msgs – SZRU in Rivne
14260.900	0740	03.10.17	RUS		OFDM	35.6	2760	OFDM 60 – PSK4B - Moscow
14295.000	ady	dly	TJK		A3E		9k	3 rd from 4765 – Radio Tajikistan
18080.000	0715	16.10.17	TWN		A3E		9k	Sound of Hope Taiwan + CHN jammer
18107.000	vt	vd	RUS	RDL	F1B	50	200	Moscow – RUS navy – shared band!
21000.000	1910	30.09.17	B		USB			Brazilian pirates – Rio with North-Brazil
21238.000	0939	21.09.17	CHN		FMOP		160k	Chinese wideband OTHR – screenshot
21325.000	0930	12.10.17	CHN		FMOP		10k	OTH radar bursts – 66.66 sps - foghorn
21334.000	0918	16.10.17	CHN		FMOP		10k	OTH radar bursts – 42 sps
21369.000	0918	16.10.17	CHN		FMOP		10k	OTH radar bursts – 42 sps
28015.000	1440	11.10.17	IRN		FMOP		50k	Iranian radar bursts – 307 sps
28050.000	1442	11.10.17	IRN		FMOP		50k	Iranian radar bursts – 307 sps
28085.000	ady	dly	POR		F1B	51	300	Enagal GPS buoys – Atlantic Ocean
28960.000	0945	13.10.17	IRN		FMOP		50k	Iranian 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, 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: 3535 – 3550 – 3560 – 5356 - 7000 - 10125 - Spanish fishery often

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

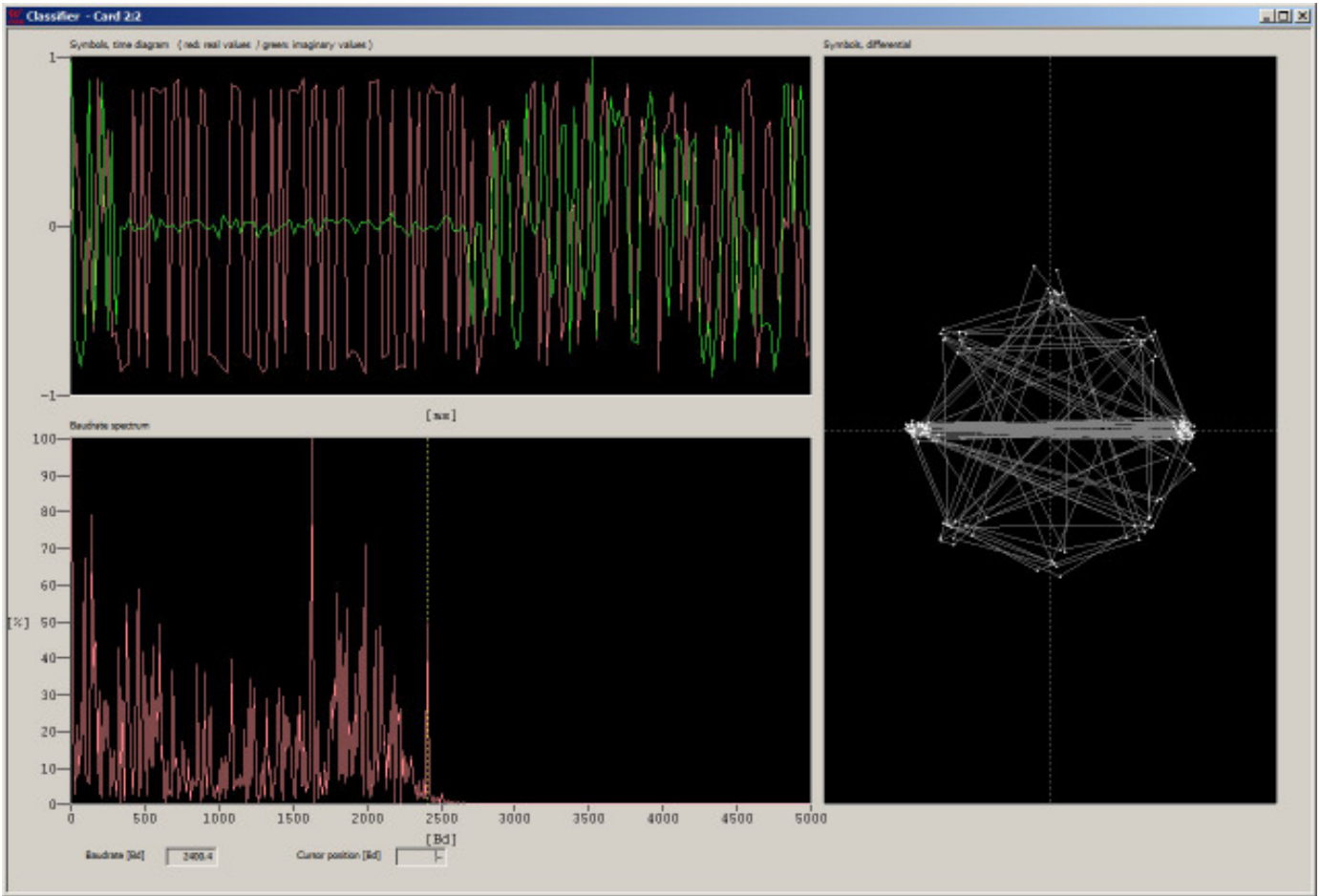
Sound of Hope (Taiwan) + CHN jammer ++ 7140 and 7180 -> Radio Eritrea + QRM by Radio Ethiopia

28000 – 29700 kHz – crowded of CIS taxis in FM – daily – under Sporadic E conditions audible here

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

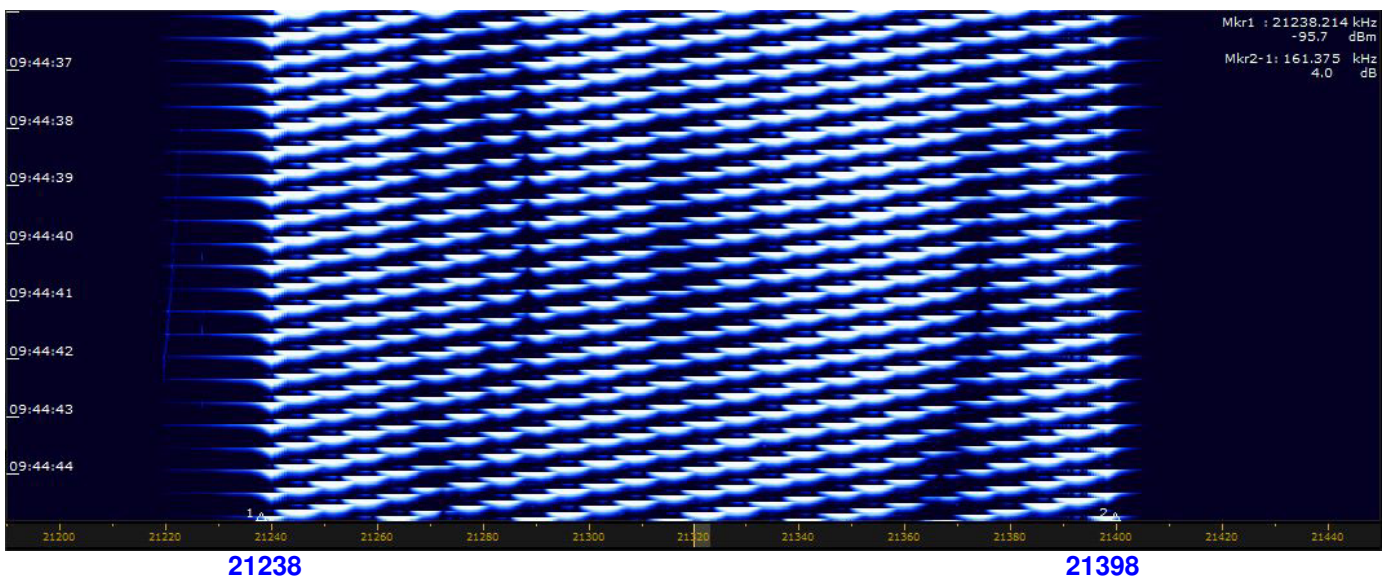
Stanag-4285 (PSK8A – 2400 Bd – 2400 Hz – 600 bps) from Turkey (Istanbul)
on 7001.8 kHz center (18.09.2017)

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



Chinese wideband OTH radar 21238 - 21398 kHz – FMOP - 10 sps - on Sept. 21st at 0939 utc

Screenshot: DK2OM with Perseus



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

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