Monitoring Report: September 2016

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m band informational only! - Primary but shared with other also primary allocated services									
3525.0 (Center)	2111	27	09			DQPSK	14x75	5k9	LINK 11 CLEW; almost daily (STANAG 5511): ISB Mode
3530.0	2150	07	09			J7D	12x120	2k7	BPSK; CIS12
3532.0 VFO USB	2117	27	09			DQPSK	14x75	5k9	LINK 11 CLEW; often (STANAG 5511) mode
3548.0	2147	02	09			F1B	50	200	almost daily
3549.0 VFO USB	2218	05	09			PSK8	2400	~2k7	MIL188-110A (Hybrid), preamble 4 tones, 450Hz spacing
3553.8	2151	02	09			G1D	2400	~2k4	Stanag 4285; PSK8almost daily frame format mostly 600bps/long
3586.0	2123	27	09			J7D	12x120	2k7	BPSK; CIS12
3658.0	2125	27	09		V	A1A			Beacon V
3662.5			09			F1B	75	250	
3699.0	2227	05	09			J7D	12x120	2k7	BPSK; CIS12
3712.0	2106	08	09			DQPSK	14x75	5k9	LINK 11 CLEW; (STANAG 5511) DSB mode
6998.0	2149	03	09			H3E-U Bursts		~3k6	"Buzzer" up to ≥7001.5kHz daily
7026.0	2118	20	09			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
7027.0	2140	02	09			J7D	12x120	2k7	BPSK; CIS12
7030.0	2129	06	09			J7D	12x120	2k7	CIS12
7070.0	2149	29	09		811199	MFSK8	125	1750	MIL 188-141A
7080.0	2021	08	09			F1B	50	200	
7089.5	2056	12	09			J7D	12x120	2k7	BPSK; CIS12
7091.565	2202	03	09	KAZ	V	A1A			Beacon V; with spurious daily
7112.0 VFO LSB	2132 109	26 27	09			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz. Preamble 4x PSK4 60Bd, spacing 600Hz; Pilottone at 450Hz
7117.0	1443	07	09		REA4	F1B	100	1000	ID in F1A (h+40)
7117.0	2146	07	09			F1B	75	200	
7120.0	1759	06	09	SOM		A3E		10k	Radio Hargaysa
7124.0	0639	06	09			J7D	12x120	2k7	BPSK; CIS12
7135.0	1916	15	09			F1B	50	200	
7137.0	2103	04	09			F1B	50	200	
7146.557	1615	30	09			A3E		10k	BC; unidentified
7151.0	2144	02	09			J7D	12x120	2k7	BPSK; CIS12
7171.8	2043	08	09			PSK8	2400	~2k7	MIL 188-141**B**; waveform BW2
7174.989	1557	30	09	ERI		A3E		10k	BC; Voice of the broad masses (jammed)
7175.0	1557	30	09	ETH **?**		Noise		>15k	Jammer
7186.0	2215	05	09			J7D	12x120	2k7	BPSK: CIS12; with carrier
7197.0	2048	29	09	TUR		MFSK8	125	1750	MIL 188-141A; many different ID's
7200.0	2208	07	09			F1B	50	200	
14000.0	1508	07	09			N0N			long lasting carrier (strong fading)
14008.0	1006	28	09			F1B	50	250	often
14052.0	1128	02	09			J7D	12x120	2k7	BPSK; CIS12
14114.0	1142	29	09			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
14115.0	1410	16	09			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
14135.0	1257	17	09			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k Contayner 29B6

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14171.0	1216	29	09			J7D	12x120	2k7	BPSK; CIS12
14180.0	1330	06	09		RDL	F1A		200	Letters and figures often
14180.0	1335	06	09			F1B	36+50	200	CIS 36-50 almost daily
14192.0	1337	12	09			F1B	50	200	
14201.8	1129	02	09			BPSK	16x75	2k2	Burst system; 16 tones, 2 Pilottones when idling short dots every 0.725s
14204.0	0944	09	09			OFDM60	35.55	~2k7	PSK-8B modulated, tone spacing 44.44Hz; pilottone at 3k3
14239.0	1031	09	09			FMOP	10 sps	~10k	OTHR; only short period
14241.5	1351	28	09			PSK-8	2000	~2k0	ev. RFSM2400 ?
14242.0	1117	02	09			J7D	12x120	2k7	BPSK; CIS12
14261.0	0742	08	09			OFDM60	35.55	~2k9	DPSK-8B modulated, tone spacing 44.44Hz; pilottone at 3k3
14272.0	1019	07	09			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
14281.0	1056	22	09			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
14340.0	1006	28	09			J7D	12x120	2k7	BPSK; CIS12 often
18085.0	1103	22	09			FMCW	50 sps	20k	OTHR
18095.0	1512	07	09			FMCW		20k	OTHR
18107.0	0831 0835	08	09		RDL	F1B	36 50	200	CIS 36-50
18107.0	0836	08	09			F1A		200	letters and figures
18149.0	0936	21	09			FMOP ?	12.5sps	30k	OTHR
18150.0	0823	19	09			F1B	100	1000	2nd of 9075 kHz (100Bd 500Hz)
21353.5	1412	16	09			F1B	600	600	ARQ system
28306.0	1943	12	09			H3E-U			Unident; roger beeps (no ham)

Errors and omissions excepted

Digital transmissions: Frequency indications mostly center frequency; otherwise indicated
ALE MIL 188-141A = is usually VFO USB !

BC = Broadcast // **BD** = Baud, or also Burst duration // **BRI** = Burst repetition interval // **SH** = Shift or Spacing (Hz)
BW = Bandwidth // **OTHR** = over the horizon radar // **FMCW** = frequency modulated continuous wave //
FMOP = frequency modulated on pulse // **sps** = sweeps per second // **vd** = various dates // **vt** = various times

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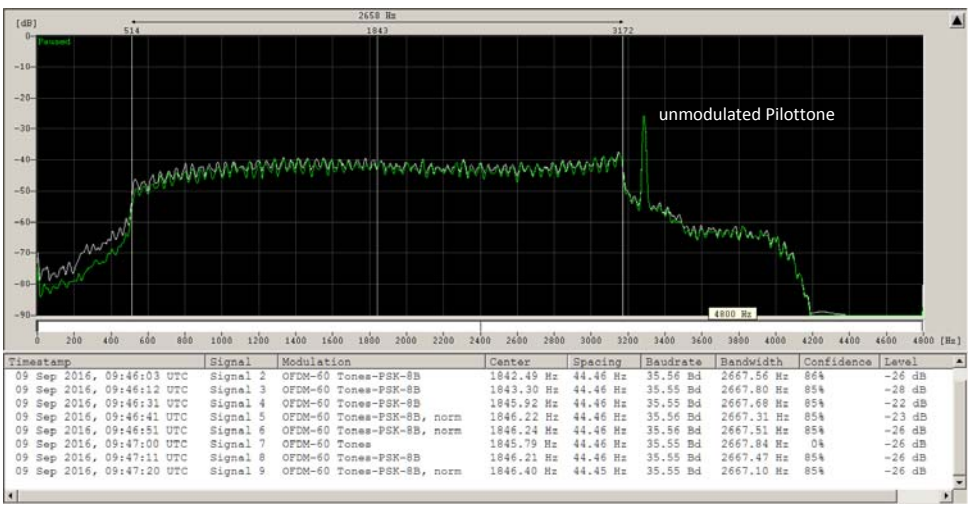

OFDM-60
Orthogonal Frequency-Division Multiplexing

60 Tones	DPSK8 modulated
Tone spacing	44.45 Hz
Baud rate	35.55 Bd
Pilot tone at	3'300Hz
Bandwidth	2k8 (incl Pilot)

Screenshot:
real time analysis with
WAVECOM W-Code Classifier

at 14204 kHz with Perseus SDR