Monitoring Report: August 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									
3503.5	2236	06	08		XSS	MFSK8	125	1750	MIL 188-141A
3525.0	2303	15	08			F1B	50	200	
3527.0	2221	14	08			F1B	50	200	almost daily
3532.0 USB	2215	14	08			DQPSK	14x75	5k9	LINK 11 CLEW; often (STANAG 5511) mode
3549.0 USB	2349	09	08			PSK8	2400	~2k7	MIL188-110A (Hybrid), preamble 4 tones, 450Hz spacing
3552.0	2235	03	08			J7D		2k7	CIS12 idling
3553.8	2149	01	08			G1D	2400	~2k4	Stanag 4285; PSK8 almost daily frame format mostly 600bps/long
3568.0	2352	09	08			F1B	75	200	
3569.0	2238	03	08			F1B	50	200	
3572.0	2255	15	08			F1B	75	250	
3578.0	2259	15	08			F1B	75	250	
3590.0	2357	09	08			J7D	12x120	2k7	BPSK; CIS12
3608.0	2224	14	08			F1B	50	200	almost daily
3610.0	2232	03	08			DQPSK	14x75	5k9	LINK 11 CLEW; (STANAG 5511) DSB mode
3610.0	2241	03	08			F1B	40.5	250	
3633.6	2359	09	08			PSK8	2400	~2k7	MIL188-110A (Hybrid), often preamble 4 tone PSK4
3637.0	2151	01	08			PSK8	2400	~2k7	STANAG 4285; often frame format 600bps/long
3788.0	2155	01	08			J7D	12x120	2k7	BPSK; CIS12
6998.0	2213	01	08			H3E-U Bursts		~3k6	"Buzzer" up to ≥7001.5kHz; daily
7008.0 LSB	1103	31	08			J7D	12x120	2k7	BPSK; CIS12 (screenshot below)
7008.0 USB	1103	31	08			J7D	12x120	2k7	BPSK; CIS12 (screenshot below)
7022.0	1042	16	08			J7D	12x120	2k7	BPSK; CIS12 often
7039.2	2115	06	08	RUS	F	A1A			Beacon F Vladivostok
7039.3	2120	06	08	RUS	K	A1A			Beacon K Petropavlovsk
7039.4	2117	06	08	RUS	M	A1A			Beacon M Magadan
7058.0	2247	03	08			F1B	75	200	often
7067.0	2339	09	08			F1B	75	240	
7110.0	2226	03	08			J7D	12x120	2k7	BPSK; CIS12
7120.0	1512	16	08	SOM		A3E		10k	Radio Hargaysa often
7149.5	1517	16	08			J7D	12x120	2k7	BPSK; CIS12
7186.0	2251	03	08			J7D	12x120	2k7	BPSK: CIS12
7200.0	2331	09	08			A3E		~10k	BC, lower sideband down to 7195 asian style music and voice
14008.0	1137	10	08			F1B	50	250	often
14048.0	0834	01	08			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
14090.0	0647	31	08			OTHR		10k	OTHR
14111.0	0947	16	08			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
14116.0	0819	19	08			F1B	75	250	often
14120.0	1239	09	08			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
14136.0	1448	07	08			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
14150.0	1510	16	08			FMOP	10 sps	~10k	OTHR; only short period

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
14190.0	1000	16	08			?	67 sps	10k	OTHR; Bursts: BD 3.9s BRI 17s
14192.0	0831	01	08			F1B	50	200	
14192.0	1011	18	08			F1B	50	500	
14201.8	1527	04	08			BPSK	16x75	2k2	Burst system; 16 tones, 2 Pilottones when idling short dots every 0.725s
14221.0	2244	03	08			F1B	50	200	often
14240.0 USB	1013	18	08			J7D	12x120	2k7	BPSK; CIS12 with carrier and Pilottone at 3300Hz
14275.0	1547	05	08			FMOP	10 sps	~10k	OTHR; only short period
14303.5	2207	01	08			J7D	12x120	2k7	BPSK; CIS12
14340.0	0826	01	08			J7D	12x120	2k7	BPSK; CIS12 often
14341.0	0917	16	08			A3E		appx 3k	unident language; long lasting
18069.0	0911	16	08			FMCW	50 sps	20k	OTHR
18075.0	0956	09	08			FMCW	50 sps	20k	OTHR
18150.0	0809	19	08			F1B	100	1000	2nd of 9075 kHz (100Bd 500Hz)
21145.0	0851	09	08		A2	MFSK8	125	1750	MIL 188-141A; LQA
21145.0	0855	09	08		C3	MFSK8	125	1750	MIL 188-141A
21145.0	0914	09	08		F301	MFSK8	125	1750	MIL 188-141A; LQA
21353.5	1501	16	08			F1B	600	600	ARQ system
21438.0	1659	10	08		RCV	A1A			letters and figures almost daily
28320.1	0943	09	08		SRT	A1A			Fishery buoy
28330.03	0946	09	08		MOR	A1A			Fishery buoy
29500.0	1308	09	08			F1B	81.92	140	Datawell buoy

Errors and omissions excepted

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

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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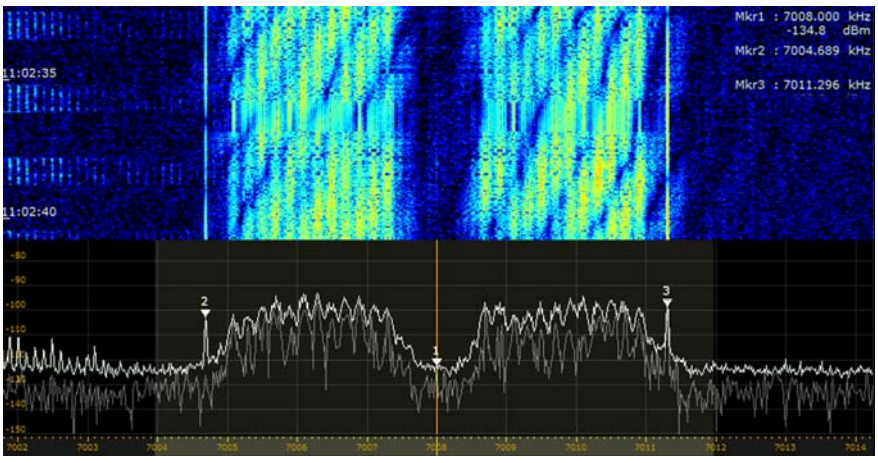

2x CIS 12 / AT3004D 12 tone modem

at Center 7008.0 kHz (Marker 1)

12 x 120 Bd BPSK modulated
200 Hz spacing between tones

Unmodulated pilottones at 3300Hz
(Marker 2 and 3)

(Together occupying appx. 6.6 kHz !)

Screenshot with Perseus SDR
(Spectrum + Sonagram merged)