



## Monitoring Report April 2018

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
<b>80m band informational only! - Amateur co-primary, shared with other also primary allocated services!</b>									
3506.0	2229	27	04			J7D	12x120	2k7	BPSK; CIS12 (idling)
3527.0	2005	03	04			F1B	50	200	almost daily
3532.0	0654	05	04			DQPSK	14x75	5k9	LINK 11 CLEW; DSB Mode often
3544.0	2234		04			F1B	75	250	
3545.0	1930	01	04			J7D	12x120	2k7	BPSK; CIS12
3548.0	1504	03	04			F1B	50	250	jammed; almost daily
3549.0	1944	01	04			PSK8	2400	~ 2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing often
3552.0 VFO USB	1956	02	04			PSK8	2400	2k4	Stanag 4285 daily
3552.0	2015	03	04			F1B	50	250	almost daily
3557.0	2117	17	04			F1B	75	250	
3559.5	1437	15	04			J7D	12x120	2k7	BPSK; CIS12
3568.0	2156	26	04			F1B	75	250	
3581.0	1706	03	04			J7D	12x120	2k7	BPSK; CIS12
3582.0	2207	10	04			J7D	12x120	2k7	BPSK; CIS12
3586.0	2210	26	04			F1B	75	200	
3594.0 VFO USB	2218	26	04			PSK8	2400	2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing
3608.0	2018	03	04			F1B	50	200	often
3631.0 VFO USB	2204	15	04			PSK8	2400	2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing often
3682.0	2315	24	04			J7D	12x120	2k7	BPSK; CIS12
3699.0	2318	24	04			J7D	12x120	2k7	BPSK; CIS12
3738.0	2020	03	04			F1B	75	250	
3740.0	2207	15	04			J7D	12x120	2k7	BPSK; CIS12
3743.0 VFO USB	2114	10	04			PSK8	2400	~ 2k7	MIL 188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing often
3797.0	1601	03	04		RJV	A1A	15wpm		letters + figures in groups often
5361.8 VFO USB	1948	02	04	DNK		PSK8	2400	2k4	STANG 4285; reported as Danish Navy in Aarhus <b>legal !</b>
7000.0	2104	17	04			J3E-U		2k3	Portuguese or Brazilian
7000.8	0828	18	04			OFDM60	30Bd	~ 2k75	PSK-4 modulated, spacing 44.45Hz; pilot tone at appx. 3k3
7006.0 VFO USB	2151	15	04		var	F1B	100	170	CODAN Selcall's
7007.0	2140	15	04			J3E-U			unid language (sounds asian)
7008.5	0909	18	04			J7D	12x120	2k7	BPSK; CIS12
7011.0	1927	11	04			F1B	75	250	long lasting
7012.0	1442	10	04			OFDM112		~ 2k9k	DQPSK; spacing: 25.62Hz, pilottone
7013.0	0705	05	04			OFDM60	35.55	~ 2k9k	PSK-8 modulated, spacing 44.45Hz; pilot tone at appx. 3k3
7016.0	1242	09	04			F1B	50	250	
7020.0	1158	05	04			F1B	75	250	
7024.0	1620	10	04			F1B	75	250	
7024.0	0806	25	04			F1B	75	200	
7030.0	1454	03	04			F1B	75	250	often
7031.0	0832	16	04			J7D	12x120	2k7	BPSK; CIS12
7035.0	0801	13	04			J7D	12x120	2k7	BPSK; CIS12 (idling)



# USKA - Bandwacht

Member of IARU Monitoring System R1



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7061.0	0801	25	04			J7D	12x120	2k7	BPSK; CIS12
7068.0	1618	11	04			J7D	12x120	2k7	BPSK; CIS12 (idling)
7099.0	2155	15	04			FMOP	~ 55 sps	10k	OTHR; Burst system
7103.0 VFO USB	2137	15	04		var	F1B	100	170	CODAN Selcall's
7106.0 VFO USB	2212	16	04		var	F1B	100	170	CODAN Selcall
7112.0 VFO USB	2135	15	04		var	F1B	100	170	CODAN Selcall's
7114.0	1617	03	04			F1B	50	200	
7114.0	1622	25	04			J7D	12x120	2k7	BPSK; CIS12
7118.0 VFO USB	2208	16	04		var	F1B	100	170	CODAN Selcall
7120.0	1622	02	04	SOM		A3E			BC; Radio Hargaysa almost daily
7120.0	2223	14	04			DQPSK	14x75	5k9	LINK 11 CLEW; in DSB Mode
7121.0 VFO USB	2133	15	04		var	F1B	100	170	CODAN Selcall's
7124.0	0934	17	04			J7D	12x120	2k7	BPSK; CIS12
7139.0 VFO USB	2130	15	04		var	F1B	100	170	CODAN Selcall's
7140.0	1619	02	04	ERI		A3E		~8k	BC, massively jammed
7140.0	1619	02	04					20k	Jammer, white noise
7142.0 VFO USB	2126	15	04		var	F1B	100	170	CODAN Selcall's
7160.0	2116	15	04		A98	MFSK8	125	1750	ALE, MIL 188-141A; To:E55
7160.0	2117	15	04		E55	MFSK8	125	1750	ALE, MIL 188-141A; To:A98
7162.0	1452	03	04			F1B	75	250	
7162.0	2115	15	04			A1A			letters + figures
7169.0	0834	16	04			F1B	75	250	
7171.0	0710	05	04			J7D	12x120	2k7	BPSK; CIS12
7178.0	0932	16	04			J7D	12x120	2k7	BPSK; CIS12
7180.0	1620	02	04					~24k	Jammer, white noise often
7181.5	1620	02	04	ERI		A3E		~9k	BC, jammed almost daily
7197.0	2037	05	04	TUR	327018	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2041	05	04	TUR	334013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2056	05	04	TUR	306013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2116	05	04	TUR	366013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2210	05	04	TUR	123456	MFSK8	125	1750	ALE, MIL 188-141A often
7197.0	2215	05	04	TUR	337018	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2217	05	04	TUR	316013	MFSK8	125	1750	ALE, MIL 188-141A
7198.0	1451	10	04			J7D	12x120	2k7	BPSK; CIS12
7200.0	1845	17	04			J7D	12x120	2k7	BPSK; CIS12
13999.0	0809	24	04			J7D	12x120	2k7	BPSK; CIS12; partially in 20m band
14008.0	1022	17	04			F1B	50	167	only short sequences, every 15'
14026.0	1153	24	04			J7D	12x120	2k7	BPSK; CIS12
14044.0	0840	16	04			F1B	75	250	
14144.0	1057	25	04			J7D	12x120	2k7	BPSK; CIS12
14162.0	0838	10	04			J7D	12x120	2k7	BPSK; CIS12
14192.0	1319	05	04			F1B	50	200	often
14204.0	0949	16	04		WJDI	A1A	~ 19wpm		letters + figures (encrypted)
14220.5	0745	23	04			F1B	600	600	ARQ
14253.0	0842	16	04			F1B	75	250	often
14255.0	0753	23	04			J7D	12x120	2k7	BPSK; CIS12 often



kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
14261.0	0815		04			OFDM60	35.55	2k75	PSK-8 modulated, spacing 44.45Hz; pilot tone at appx. 3k3
14263.0	1415	05	04			F1B	75	250	
14265.0	1317	05	04			J7D	12x120	2k7	BPSK; CIS12 often
14306.0	0812	25	04			J7D	12x120	2k7	BPSK; CIS12
18080.0	0720	05	04			A3E		~15k	BC; Chinese almost daily Sound of Hope + PRC
18107.0	0945	12	04		RDL	F1B	36 + 50	200	CIS 36-50 often
18107.0	0946	12	04		RDL	F1A		200	CIS 36-50; cw, groups of five
21270.0	1215	06	04			FMCW	25 sps	20k	OTHR

Errors and omissions excepted

Digital transmissions: Frequency mostly center frequency; otherwise indicated.

**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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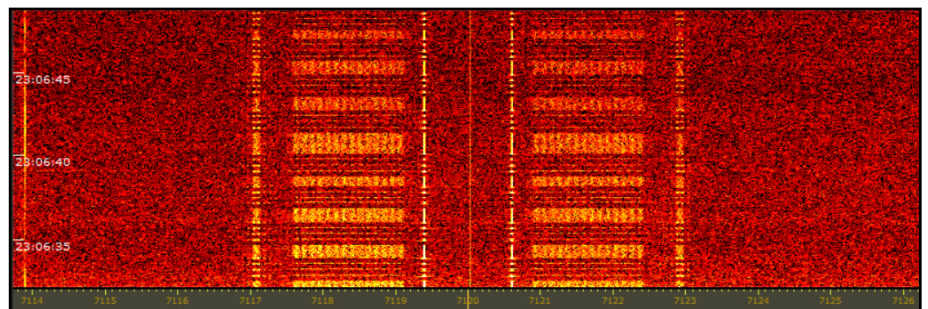
## Screenshots

### Sonagram of a LINK 11 CLEW

(CLEW: Conventional Link Eleven Waveform), also known as TADIL-A. Using 16 carriers, DQPSK modulated, tone spacing of 110Hz.

The Sonagram shows an emission in DSB (Dual Sideband) Mode.

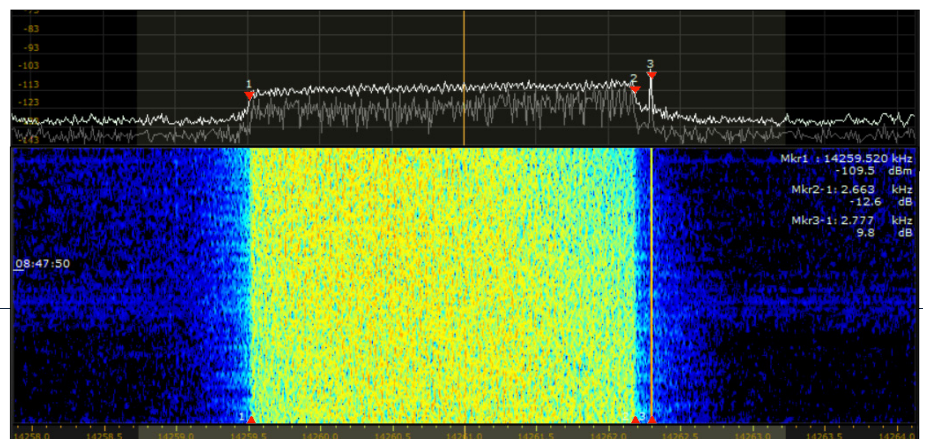
Found in 80m and 40m band, in single or mostly dual sideband mode.



### Spectrum of a CIS OFDM 60,

PSK-8 modulated, spacing 44.45Hz; pilot tone at appx. 3k3

Several times found in 20m and 40m band, in the PSK4 or PSK8 variant.



All Screenshots with Perseus SDR  
 Analysis with WAVECOM W-Code  
 Classifier; © HB9CET