



Monitoring Report November 2019

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
7000.0	1605	05	11			J3E-U		2k1	unident language (sounds asian)
7000.0 USB	1529	06	11			G7D	2400	3K00E	Stanag 4285
7000.0 USB	1622 1927	20 22	11			G1D PSK8	2400	2k7	MIL 188-141B Appendix C BW1 and BW2
7008.0	1044	06	11			F1B	75	250	
7009.0 LSB	1506	20	11	CHN		OFDM30 PSK-4	30x60Bd	~2k5	CHN-30; Burst system; tone spacing 75 Hz; Preamble 4x PSK4 60Bd, spacing 600Hz; Pilottone
7010.0	1625	20	11			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
7013.0	1558	20	11			MFSK8	125	1750	ALE, MIL 188-141A
7018.0	1531	20	11			MFSK8	125	1750	ALE, MIL 188-141A
7023.0	1532	06	11			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
7051.0	2216	19	11			F1B	50	200	
7054.0	1825	14	11			F1B	50	200	often
7055.0	0934	13	11			J3E-L		ca 2k7	Music and political statements daily
7055.0	1524	20	11			J3E-L		ca 2k7	Music and political statements
7087.0	0837	06	11			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
7108.0 LSB	2208	20	11	CHN		OFDM30 PSK-4	30x60Bd	ca. 2k5	CHN-30; Burst system; tone spacing 75 Hz; Preamble 4x PSK4 60Bd, spacing 600Hz; Pilottone
7111.0 LSB	1433	07	11	CHN		OFDM30 PSK-4	30x60Bd	ca. 2k5	CHN-30; Burst system; tone spacing 75 Hz; Preamble 4x PSK4 60Bd, spacing 600Hz; Pilottone often
7122.0	0733	21	11 15		RDL	F1B F1A	50	200	almost daily
7129.0	0831	12	11			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
7134.0	1600	08	11			F1B	XX	200	
7140.0	1557	06	11	ERI	VOBM	A3E		~ 9k	BC often
7142.0	1212	08	11			F1B	75	250	
7146.0	2334	02	11			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
7150.0	2342	02	11		1028	MFSK8	125	1750	ALE, MIL 188-141A; To: 7246
7159.0	1413	04	11			B7D	14x75	6K00E	DQPSK: LINK 11 CLEW, DSB mode TDoA: Aera of North Scotland often
7159.0	1437	07	11			G7D	14x75	3K00E	DQPSK: LINK 11 CLEW, SSB Mode
7159.0	1119	13	11			F1B	75	200	
7178.0	0925	13	11			J7D	12x120	2k7	PSK-2; CIS12 ka AT3004D
7180.0	1559	06	11	ERI	VOBM	A3E		~ 9k	BC almost daily
7186.0	1017	23	11			J7D	12x120	2k7	PSK2; CIS12 aka AT3004D; Carrier at 7184; Pilottone at 3300Hz
7188.0	1027 0930	12 19	11			F1B F1A	43.8x	250	in F1A: QRJ ?
7192.9	1214	04	11			A1A			Dots only: Jammer, stupid and illegal!
7193.0	0917	04	11	RUS	RDL	F1B	50	200	TDoA: Kaliningrad almost daily
7193.1	0819	14	11	RUS	RDL	F1A	17 wpm	200	Numbers and letters; encrypted
7196.0	0926	18	11			F1B	75	200	
7197.0	1539	08	11	TUR	various ID's	MFSK8	125	1750	ALE, MIL 188-141A; Network daily
7198.0	0731	21	11			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D



kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
10105.0	2354	26	11			FMxx	12.5 sps	40k	OTHR; (80ms) TDoA: Aera of Cyprus
14113.45	1256	25	11			F1B	600	600	ARQ often
14201.0	0838	12	11			FMOP	10 sps	40k	OTHR; long lasting
14223.5	1131	05	11			G1D	2400	ca. 2k7	PSK8; MIL 188-141B Appendix C,
14228.0	0910	03	11			FMxx	41	10k	OTHR (24300µs)
14264.0	0841	07	11			FMOP	10 sps	10k	OTHR
14336.0	0932	18	11			FMOP	xx	10k	OTHR; Bursts
18164.0	1016	14	11			FMCW	25 sps	20k	OTHR
28198.0	1012	01	11	IRN		XXX	226+ 333 sps	appx 50k	OTHR, Bursts sweep rate alternating
28860.0	0957	19	11	IRN		XXX	150 + 313 sps	appx 45k	OTHR, Bursts; long lasting, sweep rate alternating often

Errors and omissions excepted

Digital transmissions: Frequency mostly center frequency; otherwise indicated (LSB or 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

DF = Direction finding (radio location) // **TDoA** Time difference of arrival // **aka** = also known as // **ca** = approximate

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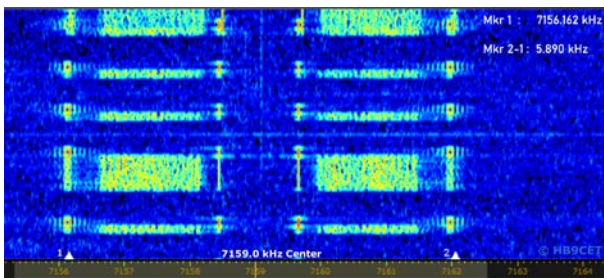
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LINK 11 CLEW DSB Mode

Center: 7159.0 kHz

Modulation: 16 Töne DQPSK 75 Baud, Abstand 110Hz.

Mode: CLEW (Conventional Link Eleven Waveform)

DSB = Dual Sideband

Zeitweise auch in SSB (Single Sideband)

Dieses LINK11 ist seit Anfangs November regelmässig auf dieser QRG aktiv. Zeitweise war es weg, kam aber wieder zurück.



OTHR - Überhorizont Radar auf 30m

Center: 10105 kHz

Bandbreite 40 kHz

Sweeprate 80 ms = 12.5 sweeps/s

TDoA Ortungen zeigten in die Region von Zypern

Dieser 40 kHz breite Mode war neu für uns. Es ist zu hoffen, dieses OTHR taucht nicht häufig in den Amateurbändern auf.

Analysen mit W-Code 10.0 von Wavecom Elektronik AG; TDoA mit Kiwi SDR, Screenshots mit Perseus SDR