Monitoring Report June 2020

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
80m band informational only! - Amateur co-primary, shared with other also primary allocated services!									
3525.0	1631	30	06			B7D	14x75	6K00E	DQPSK: LINK 11 CLEW;DSB mode
3527.0	2254	02	06			F1B	50	200	almost daily
5361.8 USB	2119	10		DNK		G1D PSK8	2400	3k00E	STANAG 4285; DNK NAVY often (Legal!)
7001.0	0826	17	06			xxx		2k75E	Pilottone at 3300Hz; probably OFDM
7008.0	0952	17	06			F1B	75	250	CIS
7008.5	0859	10	06			FMOP	40 sps	12k0E	OTHR: Contayner
7020.0	1751	13	06			F1B	50	250	
7051.0	2241	02	06			F1B	50	200	almost daily
7055.0	0904	10	06			J3E-L		2k70E	Russian-Ukraininen Radio war daily mutual insults, hate-raps, music
7100.0	2037	17	06			J3E-L		2k70E	Russian-Ukraininen Radio war mutual insults, hate-raps. A big shame!
7111.0 LSB	2158	23	06			OFDM30 PSK-4	30x60Bd	ca 2k50E	CHN-30 (PRC30); Burst system; tone spacing 75 Hz; Preamble 4x PSK4 60Bd, spacing 600Hz; Pilottone
7140.0	1724	04	06	ERI	VOBM	A3E		ca 9k	BC: Voice of the broad Masses 1 daily
7164.0	2153	26	06			J7D	12x120Bd	2k70E	CIS12
7197.0	2047	04	06	TUR	322013 various	MFSK8	125	1750	ALE, MIL 188-141A; daily TUR Emergency Network
7198.4	2054	04	06			A1A			CW encrypted
14008.0	0835	10	06			F1B	50	250	often
14083.0	0837	08	06			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
14107.0	1146	09	06			FMOP	40 sps	12k0E	OTHR; Contayner often
14110.0	1732	10	06			FMOP	40 sps	12k0E	OTHR; Contayner
14120.0	1952	16	06			FMOP	40 sps	12k0E	OTHR; Contayner
14125.0	1230	09	06			J3E-U		ca 2k1	Russian; Long lasting, maybe Radio-War!
14140.0	1424	24	06			FMOP	40 sps	12k0E	OTHR; Contayner
14153.0	1350	17	06			FMOP	40 sps	12k0E	OTHR; Contayner
14160.0	1301	29	06			F1B	75	250	CIS
14162.0	1505	23	06			FMOP	40 sps	12k0E	OTHR; Contayner
14164.0	1624	08	06			FMOP	40 sps	12k0E	OTHR; Contayner
14180.0	1526	26	06			FMOP	40 sps	12k0E	OTHR; Contayner
14184.0	0820 0904	10 29	06			FMOP	40 sps	12k0E	OTHR; Contayner often
14189.0	1432	24	06			FMOP	40 sps	12k0E	OTHR; Contayner
14190.0	2100	13	06			FMOP	40 sps	12k0E	OTHR; Contayner
14191.0	1152	17	06			FMOP	40 sps	12k0E	OTHR; Contayner
14202.0	0831	08	06			FMOP	40 sps	12k0E	OTHR; Contayner
14221.0	2034	04	06			F1B	50	200	CIS often
14327.0	1341	17	06			FMOP	40 sps	12k0E	OTHR; Contayner
14337.0	0921	24	06			FMOP	40 sps	12k0E	OTHR; Contayner
14346.0	1457	17	06			FMOP	40 sps	12k0E	OTHR; Contayner
14348.0	1512	17	06			FMOP	40 sps	12k0E	OTHR; Contayner, partially in 20m band
18124.0	1146	17	06			FMOP	40 sps	12k0E	OTHR; Contayner
18169.0	0925	24	06			FMCW	50 sps	20k0E	OTHR; UK base Cyprus; partially in 17m Band
21380.0	0814	17	06			FMCW	50 sps	20k0E	OTHR; TDoA: UK base Cyprus often
21438.0	0932	02	06		RCV	A1A			TDoA: Area of Sevastopol daily

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
28860.0	0857	15	06	IRN		XXX	150 + 313 sps	ca 40k	OTHR, Bursts; long lasting, sweep rate alternating almost daily
29620.0	0838	26	06			FMCW	25 sps	20k0E	OTHR; TDoA: UK Base Cyprus

Errors and omissions excepted

Digital transmissions: Frequency mostly center frequency (CF); otherwise indicated (LSB or USB).

Abbreviations:

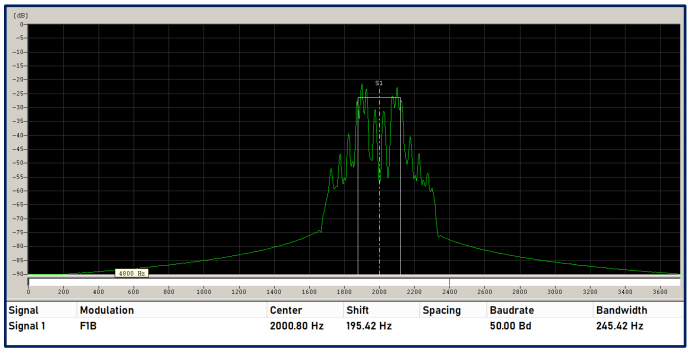
aka = also known as **| BC** = Broadcast | **BD** = Baud, or also Burst duration | **BRI** = Burst repetition interval | **BW** = Bandwidth **| ca** = approximate | **CF** = Center frequency | **DF** = Direction finding (radio location) see also TDoA | **FMCW** = frequency modulated continuous wave | **FMOP** = frequency modulated on pulse | **OTHR** = over the horizon radar | **PRC** = **CHN** People´s Republic of China | **RF** = Radio frequency = VFO | **SH** = Shift (Hz) |**sps** = sweeps per second | **TDoA** Time difference of arrival | **ui** = unid = unidentified | **vd** = various dates | **vt** = various times.

Peter A. Jost / HB9CET
Coordinator a.I. IARU Monitoring System R1
Head of USKA Bandwacht
Friedheimstrasse 34b
CH 8057 Zürich
E-Mail: guard (at) uska.ch

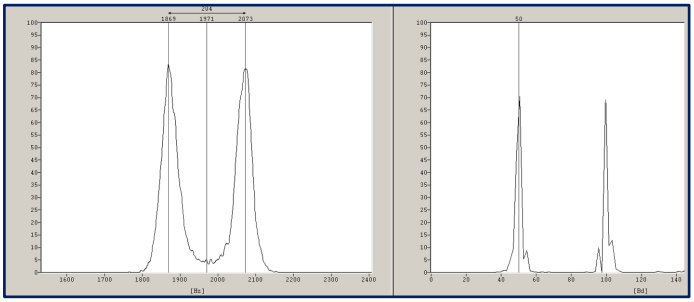
USKA Monitoring System
https://www.uska.ch
Member of IARU Monitoring System R1
https://www.iaru-r1.org/spectrum/monitoring-system/
https://www.iaru.org/spectrum/monitoring-system/
hb9cet (at) iaru-r1.org

Analysen

1. Fernschreiber F1B auf 14221 kHz: 50 Bd, Shift 200Hz:

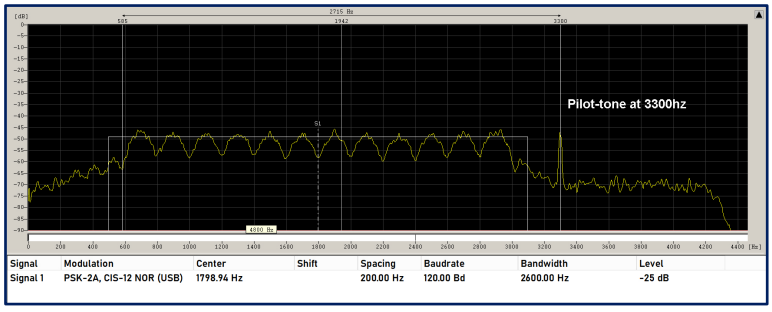


Automatische Analyse mit W-Code Classifier

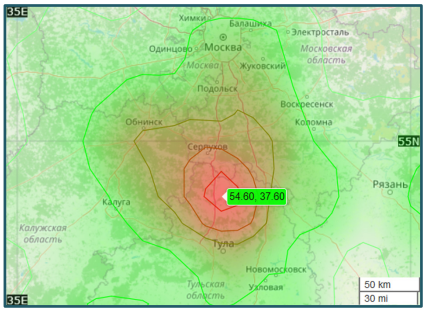


Analyse im "FSK analysis mode": 50 Bd 200Hz Shift

2. CIS12 Modem auf 14083 kHz 12x120Bd BPSK, tone spacing 200Hz, Pilotton bei 3300Hz



Automatische Analyse mit W-Code Classifier



TDoA Ortung im KIWI SDR Netzwerk

Besten Dank an Wavecom Elektronik AG für die wichtige und äusserst wertvolle Unterstützung mit der W-Code Software.