

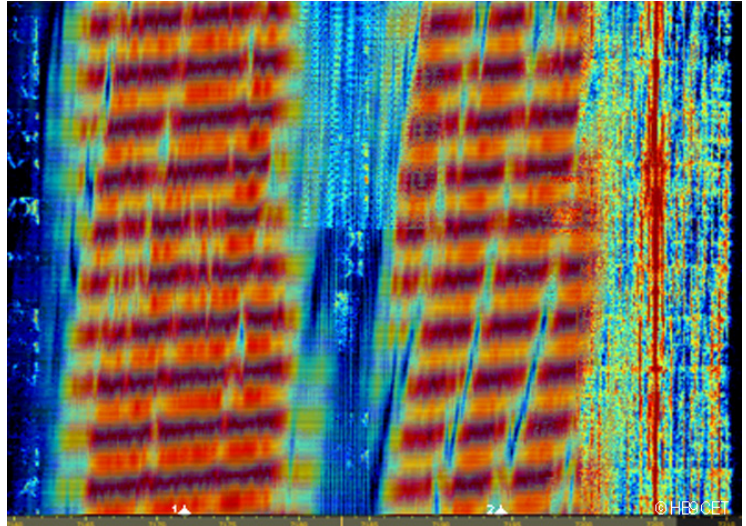


## USKA Monitoring Bericht Februar 2022

Trotz des aktuellen Konflikts in der Ukraine zeigte der Februar noch ein ähnliches Bild wie der Januar. Wiederum stammten die meisten Beeinträchtigungen von Überhorizont Radaren (OTHR), vor allem dem russischen Contayner. Mehrfach wurden gleich zwei (siehe Bild) ja gar bis zu vier Emissionen nebeneinander beobachtet.

Fast täglich war das britische Überhorizont Radar aus Zypern doch wesentlich häufiger wahrzunehmen und dies mit zumeist äusserst starkem Signal. Derzeit ist es praktisch täglich im 15m Band aktiv.

CIS-12 Emissionen wie auch diverse CIS FSK Sender waren subjektiv beurteilt kaum häufiger anzutreffen als früher (CIS = Commonwealth of Independent States). Das hat sich inzwischen allerdings geändert. Die Bandwacht des DARC meldete kürzlich: "Zitat: ...eine deutliche Zunahme so genannter Überhorizontradare (OTHR) und taktischer digitaler Übertragungsverfahren für Daten und Sprache.... Zitat Ende."



Zwei OTHR "Contayner" auf 40m nebeneinander, je  $\geq 12$  kHz breit



### 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 | **x** or **xxx** is used for unknown/not classified.

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

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
6999.0	1759	10	02	RUS		FMOP	40 sps	12k0E	OTHR; Contayner; partially in 40m band
7008.0	1523	15	02			F1B	75 Bd	250H	CIS
7012.0	1632 1109	08 14	02			J7D	12x120 Bd	2k70E	CIS 12 often
7046.0	0943 1641	17 21	02			F1B	50 Bd	200H	often
7050.0 LSB	1330	14	02			J3E-L		ca. 3k0E	RUS-UKR Radio War often
7054.0	1701	25	02			F1B			often
7055.0 LSB	0647	28	02			J3E-L		ca. 3k0E	RUS-UKR Radio War almost daily
7064.0	2251	21	02	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
7065.0	1321	14	02			J7D	12x120 Bd	2k70E	CIS 12
7070.0	1529	28	02			J7D	12x120 Bd	2k70E	CIS 12
7072.0	0943	09	02			J7D	12x120 Bd	2k70E	CIS 12



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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
7110.0	1734 1633	03 08	02	ETH		A3E		ca 9kOE	BC: Radio Ethiopia <span style="float: right;">daily</span>
7123.0	1329	03	02			FMOP	66.66 sps	10kOE	OTHR; short Bursts
7134.0	2113	26	02			F1B		200H	
7138.0	1735	08	02	RUS		FMOP	40 sps	12kOE	OTHR; Contayner
7156.0	2116	26	02	RUS		FMOP	40 sps	12kOE	OTHR; Contayner
7159.0 USB	0917	15	02			G7D DQPSK	75 Bd	ca 2k5OE	LINK11 CLEW SSB mode; 16 tones <span style="float: right;">often</span>
7193.0	0923 0900	15 28	02		RDL	F1B	50 Bd	200H	FSK <span style="float: right;">often</span>
7194.0	1733	25	02			FMOP	40 sps	12kOE	OTHR; Contayner
13999.0	1432	28	02	RUS		FMOP	40 sps	12kOE	OTHR; Contayner; partially in 20m band
14002.0	1249	21	02			F1B		850H	
14033.0	0947	02	02			OTHR	10 sps	40kOE	OTHR
14034.0	0959	04	02			OTHR	10 sps	40kOE	OTHR
14054.0	0937	03	02			FMCW	66.66 sps	10kOE	OTHR; Bursts
14059.0	0950	15	02			FMCW	50 sps	10kOE	OTHR; Bursts
14090.0	1042	25	02	RUS		FMOP	40 sps	12kOE	OTHR; Contayner
14098.5	0737	23	02			F1B/ARQ	600 Bd	600H	DPRK 600/600 ARQ system <span style="float: right;">often</span>
14101.9	0916	01	02			W7D		cs. 2k6	OFDM60;
14114.0	0858	25	02	RUS		FMOP	40 sps	12kOE	OTHR; Contayner
14116.0	0929	17	02			F1B		250H	
14184.0	1004	08	02			FMxx	10 sps	160k0	Wideband OTHR
14185.0	1335	28	02	RUS		FMOP	40 sps	12kOE	OTHR; Contayner
14188.0	0735	23	02	RUS		FMOP	40 sps	12kOE	OTHR; Contayner
14193.0	1613	24	02	RUS		FMOP	40 sps	12kOE	OTHR; Contayner
14221.0	0952	01	02			FMCW	50 sps	10kOE	OTHR; Bursts
14231.0	0947	01	02			FMCW	50 sps	10kOE	OTHR; Bursts
14239.0	0842	11	02			FMxx	10 sps	40kOE	OTHR
14253.0	0930	04	02			FMxxx	10 sps	40kOE	OTHR
14257.0	0828	01	02			FMxx	10 sps	40kOE	OTHR
14278.0	0958	28	02			FMCW	66.66 sps	10kOE	OTHR; Bursts
14280.0	1010 1011	08 23	02			A3E		ca 7k	SZRU; Female voice: encrypted msgs (figures); Russian language <span style="float: right;">often</span>
14297.0	0937	03	02			FMCW	66.66	10kOE	OTHR; Bursts
14308.0	0745	23	02			F1B		500H	
14313.0	0959	23	02			OTHR	48 sps	10k0	OTHR
14315.0	0940	15	02			FMCW	50 sps	10kOE	OTHR; Bursts
14324.0	0954	03	02			OTHR	48 sps	10k0	OTHR
14333.0	0943	15	02			FMCW	66.66 sps	10kOE	OTHR; Bursts
14339.0	0917	24	02			OTHR	83 sps	10kOE	OTHR; Bursts
14342.0	0954	28	02			FMCW	66.66 sps	10kOE	OTHR; Bursts
18079.0	0958	28	02			OTHR	41 sps	10kOE	OTHR; Bursts
18083.0	0827	28	02			FMCW	50 sps	10kOE	OTHR; Bursts
18150.0	0902	23	02			FMCW	66.66 sps	10kOE	OTHR; Bursts
18169.0	1053	14	02	RUS		FMOP	40 sps	12kOE	OTHR; Contayner; partially in 17m band
18172.0	0805	23	02	RUS		FMOP	40 sps	12kOE	OTHR; Contayner; partially in 17m band
18175.0	0904	25	02	G		FMCW	50 sps	20kOE	OTHR; UK base Cyprus; partially in 17m band



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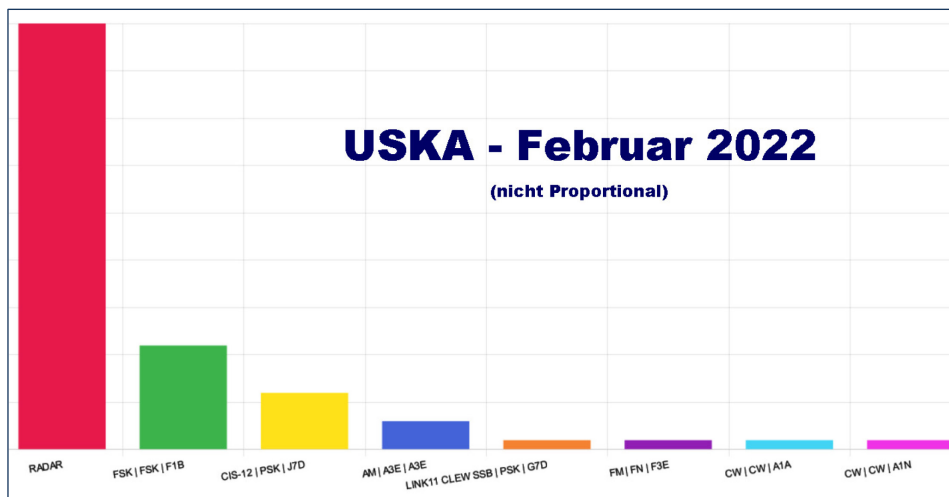
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
21100.0	0915	28	02	G		FMCW	50 sps	20kOE	OTHR; UK-base Cyprus
21109.0	1000	01	02	RUS		FMOP	40 sps	12kOE	OTHR; Contayner
21179.0	1044	02	02			OTHR	48 sps	10kOE	OTHR; Bursts
21191.0	0835	28	02			FMCW	50 sps	10kOE	OTHR; Bursts
21277.0	1003	02	02			OTHR	66.66 sps	10kOE	OTHR; Bursts, long lasting
21325.0	1003 1020	04 22	02	G		FMCW	50 sps	20kOE	OTHR; UK base Cyprus
21345.0	1009	02	02	G		FMCW	50 sps	20kOE	OTHR; UK base Cyprus
21350.0	1118	03	02	G		FMCW	50 sps	20kOE	OTHR; UK-base Cyprus
21355.0	0907	10	02	G		FMCW	50 sps	20kOE	OTHR; UK-base Cyprus
21365.0	1309	14	02	G		FMCW	50 sps	20kOE	OTHR; UK-base Cyprus
21375.0	1038	04	02	G		FMCW	50 sps	20kOE	OTHR; UK base Cyprus
21415.0	0830	28	02			FMCW	50 sps	10kOE	OTHR; Bursts
21420.0	0937	01	02	G		FMCW	50 sps	20kOE	OTHR; UK-base Cyprus
21430.0	0803	18	02	G		FMCW	50 sps	20kOE	OTHR; UK-base Cyprus
21438.0	1002 0917	01 28	02	RUS	RCV	A1A		10H	TDoA: Area of Sevastopol daily
28150.0	0839	28	02	IRN		?	307 + 870 sps	ca 45k	OTHR, Bursts; long lasting, sweep rate alternating
28209.0	1105	20	02	IRN		?	150 + 313 sps	ca 45k	OTHR, Bursts; long lasting, sweep rate alternating
28345.0	1100	14	02	G		FMCW	50 sps	20kOE	OTHR; UK-base Cyprus
28615.0	1006	03	02			F3E			Taxi; female voice
28825.0	0952	11	02	G		FMCW	25 sps	20kOE	OTHR; UK-base Cyprus
28860.0	1008 0850	02 28	02	IRN		?	150 + 313 sps	ca 45k	OTHR, Bursts; long lasting, sweep-rate alternating often

Errors and omissions excepted

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**USKA Monitoring System (Intruder watch)**  
<https://www.uska.ch>

Member of IARU Monitoring System R1  
<https://www.iaru-r1.org/spectrum/monitoring-system/>



Graphik der Beobachtungen im Februar 2022