



Monitoring Bericht Januar 2023

Wie schon seit Jahren störten uns Überhorizont Radare (OTHR) verschiedener Herkunft, vorwiegend aus China, Iran, Russland und Zypern. Sogar das australische Radar JORN erschien oft im 30m Band. Vor allem in den frühen Nachtstunden bemerkte man im 40m Band ab und zu Sprechfunk in USB in Brasilianisch. Spanische Fischer belegten täglich 21000 kHz in USB. Im 40m Band waren häufig digitale Signale aus China anzutreffen, vor allem das als CHN 30 (PRC 30) bekannte Modem und Kollegen meldeten auch CHN 16 (PRC 16) Signale. War das 10m Band offen, so hörte man auf diversen Frequenzen oft Taxifunk in russischer Sprache. Auffällig war ein FSK Signal mit 100Bd und 1000Hz Shift auf 7018.0 kHz (Bild auf Seite 2).

Peter Jost, HB9CET

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
7000.0	2154	30	01			J3E-U		ca 2k4	unid language
7014.0	1416 2145	04 23	01			J7D	12x120 Bd	2k70E	CIS12
7018.0	1819	16	01			F1B	100 Bd	1k0E	FSK 1000Hz (picture below)
7032.0	1309	06	01			J7D	12x120 Bd	2k70E	CIS12; additional carrier at 7032.0 kHz
7039.4	1825	07	01	RUS	M	A1A			Channel Marker; Magadan (very weak)
7054.0	1751 1307	01 05	01			F1B	50 Bd	200H	FSK almost daily
7109.0	2221	04	01			FMOP	40 sps	12k0E	OTHR; Contayner
7110.0	1757	01	01	ETH		A3E		ca 9k0E	BC: Radio Ethiopia almost daily
7119.0	1809	01	01			OTHR	50 sps	10k0E	Bursts
7135.0	2338	01	01			Radar	X	30k0	unid, slow sweeprate
7150.0	2344	01	01			FMOP	40 sps	12k0E	OTHR; Contayner
7152.0	1723	05	01			FMOP	40 sps	12k0E	OTHR; Contayner
7184.0	1728	29	01			FMOP	40	12k0E	OTHR; Contayner
7193.0	1421	04	01	RUS		F1B	50 Bd	250H	FSK
7193.0	1308	09	01	RUS	RDL	F1A		250H	CW-FSK, stopped 1310z
14026.0	0921	23	01			J7D	12x120 Bd	2k70E	CIS12; weak and fading
14198.5	1312	05	01			ARQ PSK	1200	1k20E	DPRK PSK ARQ system often
14237.0	0956	06	01			FMOP	40 sps	12k0E	OTHR; Contayner
14255.0	0847	10	01			OTHR	66.66 sps	10k0E	Bursts
14334.33	0906	30	01			F1B	50 Bd	250H	FSK; weak, fading often
18171.0	1028	06	01			FMOP	40 sps	12k0E	OTHR; Contayner; partially in 17m band
21000.0	1544 1021	02 03	01			J3E-U		ca 2k70E	Spanish, Fishermen almost daily
21045.0	0935	23	01			FMCW	50 sps	10k0E	OTHR, bursts
21125.0	1024	03	01			FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21165.0	1323	09	01			FMCW	50 sps	20k0E	OTHR; UK base Cyprus



USKA - Bandwacht

Member of IARU Monitoring System R1

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
21175.0	1016	03	01			FMOP	40 sps	12kOE	OTHR; Contayner
21175.0	1410	09	01			FMCW	25 sps	20kOE	OTHR; UK base Cyprus
21340.0	0923	02	01			OTHR	66.66 sps	10kOE	OTHR; bursts
21357.0	0948	02	01			FMCW	42 sps	10kOE	OTHR; bursts
21389.0	0919	02	01			OTHR	66.66 sps	10kOE	OTHR; bursts
21390.0	1257	06	01			FMCW	50 sps	20kOE	OTHR; UK base Cyprus
21421.0	1404	02	01			FMOP	40 sps	12kOE	OTHR; Contayner
21424.0	0940	02	01			FMOP	40 sps	12kOE	OTHR; Contayner
21430.0	1019	06	01			FMCW	50 sps	20kOE	OTHR; UK base Cyprus
21438.0	0924 0939	02 23	01	UKR	RCV	A1A		10H	RUS Navy - area of Sevastopol daily
21453.0	0931	23	01			FMCW	42 sps	10kOE	OTHR; bursts; partially in 15m band
28590.0	0913	06	01			FMCW	50 sps	20kOE	OTHR; UK base Cyprus
28600.0	1002	02	01	IRN			307 + 870 sps	ca 45k	OTHR; Bursts; long lasting, sweep rate alternating
28860.0	1234	06	01	IRN			150 + 313 sps	ca 50k	OTHR; Bursts; long lasting, sweep rate alternating often
29190.0	0927	06	01			FMCW	50 sps	20kOE	OTHR; UK base Cyprus

Errors and omissions excepted

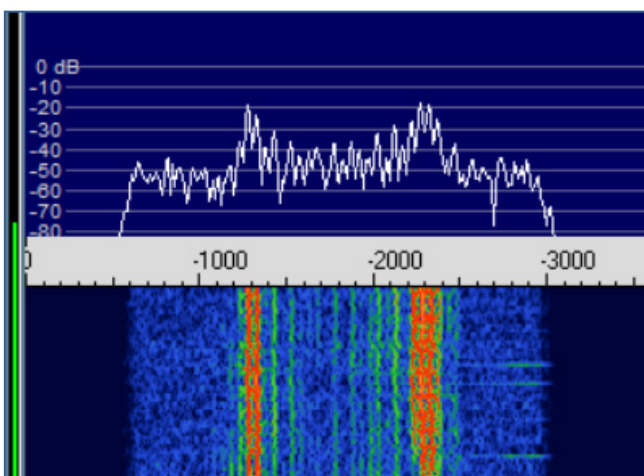
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USKA Monitoring System (Intruder watch)
<https://www.uska.ch>

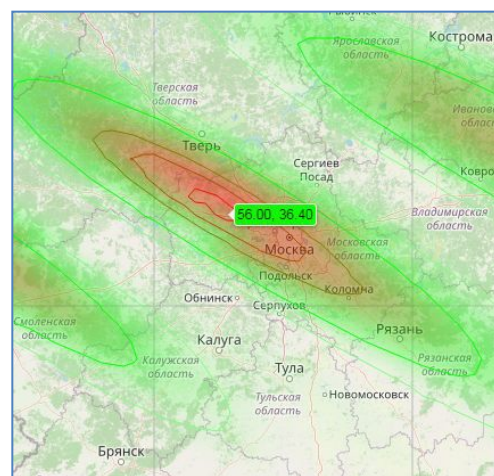
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<https://www.iaru-r1.org/spectrum/monitoring-system/>

FSK Signal

7018.0 kHz (CF): FSK 100Bd, 1000Hz Shift



Spectrum + Sonagram mit Software "Spectran", HB9CET



TDOA Ortung mit KIWI SDR; © DK2OM