



## Monitoring Report: July 2016

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m band informational only! - Primary but shared with other also primary allocated services									
3501.8	2110	14	07			PSK8	2400	~2k7	STANAG 4285
3503.5	2217	21	07			PSK8	2400	~2k7	MIL188-110A mod (Hybrid), preamble 4 tones, 450Hz spacing
3524.0	1923	14	07			F1B	75	250	often
3527.0	2049	05	07			F1B	50	200	almost daily
3532.0	2209	21	07			DQPSK	14x75	5k9	LINK 11 CLEW; often (STANAG 5511) DSB or ISB mode
3549.0 VFO USB	2053	19	07			PSK8	2400	~2k7	MIL188-110A (Hybrid), almost daily preamble 4 tones, 450Hz spacing
3553.8	2214	02	07			PSK8	2400	~2k7	Stanag 4285; PSK8 almost daily
3568.0	2304	29	07			F1B	75	200	
3569.0	2203	02	07			F1B	50	200	often
3570.5	2257	27	07			F1B	40.5 + 81	250	sometimes also short F1A
3578.0	1920	14	07			F1B	75	200	often
3584.5	2029	26	07			J7D	12x120	2k7	BPSK; CIS12
3608.0	2254	03	07			F1B	50	200	almost daily
3614.0	2055	05	07			J7D	12x120	2k7	BPSK; CIS12
3618.0	2052	05	07			J7D	12x120	2k7	BPSK; CIS12
3637.0	2206	02	07			PSK8	2400	~2k7	STANAG 4285 often
3644.5	2224	21	07			J7D	12x120	2k7	BPSK; CIS12
3662.5	1947	13	07			F1B	75	250	
3725.8	2045	26	07			PSK8	2400	~2k7	Stanag 4285; PSK8
3744.5	2137	12	07			PSK8	2400	~2k7	MIL188-110A (Hybrid), often 4 intro tones (preamble PSK4)
3767.0	2116	12	07			J7D	12x120	2k7	BPSK; CIS12 often
3772.0	2216	02	07			F1B	50	200	often
6998.0 VFO USB	2211	02	07			H3E-U Bursts		~3k6	"Buzzer" up to ≥7001.5kHz daily
7022.0	2151	15	07			J7D	12x120	2k7	BPSK; CIS12 often
7027.5	2209	06	07		V	A1A			Beacon V often
7034.0	2239	07	07			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
7036.0	2231	27	07			J7D	12x120	2k7 (3k3)	QPSK; CIS12/AT3104 Carrier at 7034 kHz
7039.2	2157	06	07	RUS	F	A1A			Beacon F Vladivostok
7050.0	1928	13	07			J3E-L			Patriotic slogans often
7055.0	2128	06	07			J3E-L			Patriotic music and slogans often
7062.0	2149	15	07			J7D	12x120	2k7	BPSK; CIS12
7068.0	2155	06	07			F1B	75	200	often
7070.0	2216	24	07		334	MFSK8	125	1750	MIL 188-141A often
7070.0	2223	24	07		244	MFSK8	125	1750	MIL 188-141A:To: 288; LQA
7070.0	2229	24	07		288	MFSK8	125	1750	MIL 188-141A: To: 244; LQA
7078.0	2157	24	07			J7D	12x120	2k7	BPSK; CIS12 often
7099.0	0804	15	07			J7D	12x120	2k7	CIS12; idling
7108.0	1519	27	07			F1B	100	250	
7120.0	1708	05	07	SOM		A3E		10k	Radio Hargaysa almost daily
7149.0	0753	21	07			A1A			letters only; 27 wpm
7152.833	2010	14				A1A			fast dots (appx 110ms ), long lasting
7162.0	0601	16	07			F1B	75	250	
7176.0	2152	05	07			J7D	12x120	2k7	BPSK; CIS12
7197.0	2148	06	07	TUR	357013	MFSK8	125	1750	MIL 188-141A



# USKA - Bandwacht

Member of IARU Monitoring System R1



kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
7197.0	2335	25	07	TUR	123456	MFSK8	125	1750	MIL 188-141A
7197.0	0016	26	07	TUR	342018	MFSK8	125	1750	MIL 188-141A
7197.0	0020	26	07	TUR	370013	MFSK8	125	1750	MIL 188-141A
7197.0	0032	26	07	TUR	ADANA	MFSK8	125	1750	MIL 188-141A
7197.0	0035	26	07	TUR	321013	MFSK8	125	1750	MIL 188-141A
14001.8	1237	11	07			PSK8	2400	~2k7	MIL188-110A (Hybrid), often 4 intro tones (preamble PSK4)
14024.0	0856	13	07			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
14026.0	0917	29	07			J7D	12x120	2k7	BPSK; CIS12
14049.0	0636	03	07			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
14081.06	1005	14	07			F1B	75	250	unclean signal
14090.0	0954	25	07			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
14112.0	0944	13	07			J7D	12x120	2k7	BPSK; CIS12
14116.0	1137	11	07			F1B	50	250	often
14116.0	0944	14	07			F1B	75	250	often
14118.0	0833	15	07			J7D		2k7	CIS12 idling (13 tones only)
14133.0	1345	19	07			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
14151.0	1018	14	07			F1B	75	250	
14160.0	1007	26	07			F1B	50	250	often
14161.4	0953	29	07			PSK		~2k4	Burst system; spacing 75 Hz, pre- amble 4x PSK4, spacing 600Hz
14192.0	0941 1257	02 27	07			F1B	50 100	500	almost daily
14200.0 VFO USB	0614	03	07			BPSK	16x75	2k2	Burst system; 16 tones, 2 Pilottones when idling short dots every 0.725s
14217.0	0931	24	07			OTHR		~13k	OTHR; occup. BW appx 30k
14221.0	2157	02	07			F1B	50	200	often
14248.5	0850	27	07			F1B	600	600	ARQ system
14273.0	0938	13	07			FMCW	10 sps	~10k	OTHR; only short period
14292.0	1139	11	07		BKP3	A1A			several stations
14295.1	1621	03	07	TDJ		A3E		~9k	3 <sup>rd</sup> from 4765 – Radio Tajikistan
14304.0	2109	12	07			J7D	12x120	2k7	BPSK; CIS12
14325.0	2247	17	07			PSK8		~ 2k7	Bursts, intro tone (appx 150ms)
14327.0	1047	26	07			A1A			letters and figures
14329.0	2301	17	07			PSK8		~ 2k7	Bursts, intro tone (appx 150ms)
14336.0	1543	28	07			A1A			letters and figures
14340.0	1627	03	07			J7D	12x120	2k7	BPSK; CIS12 often
14345.5	1034	15	07			J7D	12x120	2k7	BPSK; CIS12,
18075.0	0951	14	07			FMCW	25 sps	20k	OTHR
18080.0	0605	16	07	TWN	SOH	A3E		appx 9k	BC: Sound of Hope almost daily often jammed
18100.0	0813	15	07		C3	MFSK8	125	1750	MIL 188-141A often
18149.0 VFO USB	0803	21	07			OTHR	10 sps	160k	OTHR (up to 18309)
18150.0	0729	01	07			F1B	100	1000	2 <sup>nd</sup> of 9075 kHz (100Bd 500Hz)
18152.0	1231	25	07			A1A			letters and figures
21145.0	0834	21	07		A2	MFSK8	125	1750	MIL 188-141A
21145.0	0844	21	07		L601	MFSK8	125	1750	MIL 188-141A; To: CD
21295.0	0819	15	07			FMCW		10k	OTHR, intro tone; short bursts, various sweeprates; JORN
21353.5	1402	21	07			F1B	600	600	ARQ system
21438.0	0904	13	07		RCV	A1A			letters and figures almost daily
28061.5	1417	21	07			A1A			Dots only, duration 240ms, every 690ms; long lasting
28065.0	1042	20	07		AR	A1A			Fishery buoy



kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
28135.0	1215	11	07			F3E			Taxi
28960.0	1015	25	07			OTHR	150 + 315 sps	~ 30-40k	Burst system spattering > 80k <span style="float:right">often</span>
29500.0	1820	28	07			F1B	81.92	140	Datawell buoy

Errors and omissions excepted

**Digital transmissions: Frequency indications mostly center frequency; otherwise indicated**  
**ALE MIL 188-141A = is usually USB VFO!**

**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

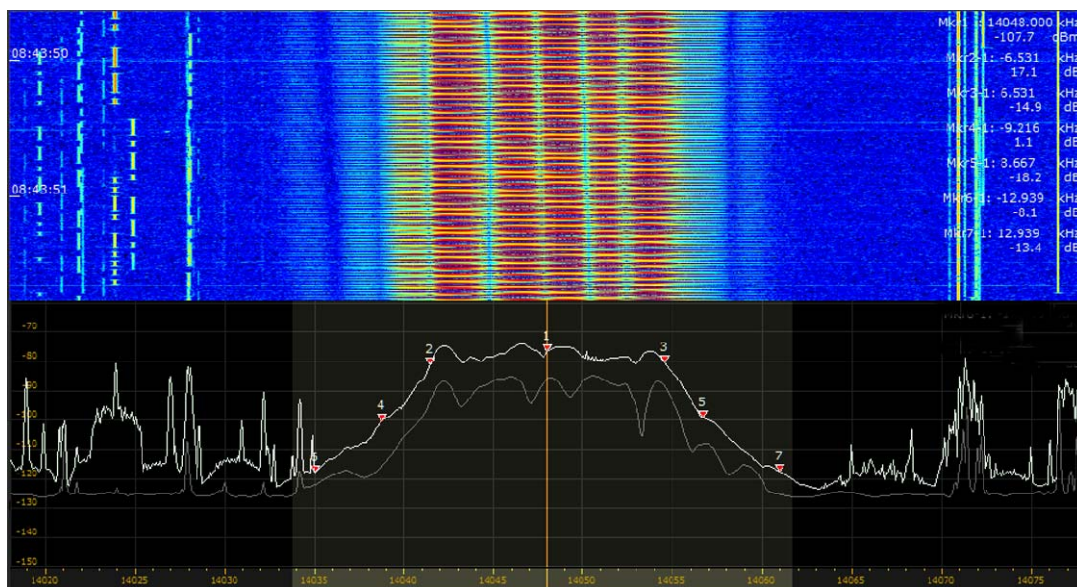
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## OTHR

Überhorizont Radare (OTHR) sind seit Jahren praktisch täglich in unseren Bändern anzutreffen. Oft findet man ein Radar mit einer Bandbreite von ca 13 kHz, das aber bis gegen 30 kHz hinweg noch wahrnehmbar ist (Bild). Es arbeitet in FMCW (frequency modulated continuous wave), meistens mit 50 sps, ab und zu auch 25 sps (sweeps/s). Gemäss diverser Quellen (u.a. IHS Jane's Defence Weekly vom 15.12.2013)

soll es sich hier um ein System aus Russland handeln, bekannt unter der Bezeichnung "Contayner 29B6". Und offenbar seien weitere Anlagen geplant, hiess es schon verschiedentlich. Da kommt keine Freude auf, beeinträchtigen uns solche Radarsysteme generell doch ganz beträchtlich, vereinzelt sogar über 160kHz hinweg.



Screenshot mit Perseus SDR: OTHR "Spektrum + Sonagram"  
- Marker 2 <-> 3: ca. 13 kHz      Marker 6 <-> 7: ca 26 kHz