



Monitoring Report: June 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									
3519.5	2048	01	06			F1B	50	200	often
3524.0	2051	01	06			F1B	75	250	
3525.0	2054	01	06			DQPSK	14x75	5k9	LINK 11 CLEW; almost daily (STANAG 5511) ISB or DSB mode
3527.0	2158	28	06			F1B	50	200	
3532.0	2139	05	06			DQPSK	14x75	5k9	LINK 11 CLEW; often (STANAG 5511) ISB or DSB mode
3543.0	2155	29	06			J7D	12x120	2k7	BPSK; CIS12
3552.0 VFO USB	2059	01	06			8-PSK	2400	~2k7	Stanag 4285; 8-PSK daily frame format 600bps/long
3568.0	2154	09	06			F1B	75	250	often
3569.0	2122	14	06			F1B	50	200	often
3572.0	2156	09	06			F1B	75	250	
3572.5	2145	05	06			J7D	12x120	2k7	BPSK; CIS12
3578.0	2108	01	06			F1B	75	200	often
3580.0	2149	05	06			J7D	12x120	2k7	BPSK; CIS12
3582.5	2126	14	06			F1B	50	200	often
3584.5	2158	29	06			J7D	12x120	2k7	BPSK; CIS12
3595.0	2256	10	06			DQPSK	14x75	5k9k	LINK 11 CLEW often (STANAG 5511) ISB or DSB mode
3608.0	2106	01	06			F1B	50	200	often
3631.0 VFO USB	2101	01	06			8-PSK	2400	~2k7	MIL188-110A (Hybrid), preamble 4 tone PSK4 often
3635.0	2206	27	06			8-PSK	2400	~2k7	STANAG 4285; frame format 600bps/long
3638.0	2130	14	06			J7D	12x120	2k7	BPSK; CIS12
3772.0	2138	21	06			F1B	50	200	often
3774.0	2133	14	06			J7D	12x120	2k7	BPSK; CIS12
6998.0	1436	01	06			H3E-U Bursts		~3k6	"Buzzer" up to ≥7001.5kHz daily
7010.0	0714	15	06			J7D	12x120	2k7	BPSK; CIS12
7016.0	1402	01	06			F1B	75	250	
7020.0	1633	03	06			F1B	75	250	
7027.5	2304	17	06		V	A1A			Beacon V often
7030.0	2244	21	06			J7D	12x120	2k7	BPSK; CIS12
7032.0	0602	17	06			J7D	12x120	2k7	CIS12
7039.2	2239	17	06	RUS	F	A1A			Beacon F Vladivostok
7050.0	2213	28	06			J3E-L			Music and Voice (no ham) daily
7062.0	1641	03	06			F1B	75	200	
7068.0	2145	14	06			F1B	75	200	often
7089.8	1836	01	06			8-PSK	2400	~3k	LINK 11 SLEW often
7111.0 VFO LSB	2234	28	06			BPSK	30x70Bd	~2k5	Burst system; spacing 75 Hz. Preamble 4x PSK4 60Bd, spacing 600Hz; Pilotone at 450Hz
7119.0	2207	05	06			J7D	12x120	2k7	BPSK; CIS12
7120.0	1615	01	06	SOM		A3E		10k	Radio Hargaysa almost daily
7122.0	2036	09	06		V	A1A			Beacon V often
7174.0	0841	02	06			F1B	75	200	weak
7176.0	2056	28	06			F1B	75	250	
7176.0	2157	11	06			J7D	12x120	2k7	BPSK; CIS12
7179.0	0845	14	06			J7D	12x120	2k7	BPSK; CIS12



USKA - Bandwacht

Member of IARU Monitoring System R1



kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
7186.0	2148	27	06			J7D	12x120	2k7	BPSK; CIS12
7187.0	1833	13	06			A1A			encrypted; letters and figures
7197.0	1956	04	06	TUR	334123	MFSK8	125	1750	MIL 188-141A
7197.0	1957	04	06	TUR	324013	MFSK8	125	1750	MIL 188-141A
7197.0	2216	27	06	TUR	318018	MFSK8	125	1750	MIL 188-141A
7197.0	2217	27	06	TUR	8411	MFSK8	125	1750	MIL 188-141A
7197.0	2220	27	06	TUR	329013	MFSK8	125	1750	MIL 188-141A
7197.0	2225	27	06	TUR	381013	MFSK8	125	1750	MIL 188-141A
7200.0	1417	01	06			A3E		~10k	BC, lower sideband down to 7195 asian style music and voice
7205.0	2153	27	06	F	RFI	A3E		~10k	BC, Radio France International, splattering down to ~7186 kHz! QTH reported as Issoudun F
14000.000	1825	13	06			N0N			long lasting carrier often
14005.8	2252	16	06			?		~3k	unident digital signal (strong fading)
14008.0	0807	06	06			F1B	50	250	often
14021.0	1000	02	06			DQPSK	8x75	2k4	CHN4+4; 2x4 tones, 300 Hz between each tone, 450 Hz between the two middle tones
14041.7	1651	05	06			OFDM	30	~2k7	weak and strong fading
14050.0	0954	02	06			F1B	50	250	
14056.0	1445	02	06			FMCW	50 sps	~13k	OTHR; occup. BW approx 30k
14056.0	0844	21	06			A1A			letters and figures; no ham
14081.6	0957	02	06			F1B	50	250	
14091.0	0854	14	06			J7D	12x120 QPSK	2k7	CIS12; short voice sequences in USB; 2 nd carrier at 14089.0
14104.0	0836	09	06			F1B	63	500	idling
14112.0	1506	07	06			FMCW	25 sps	~13k	OTHR; occup. BW approx 30k
14116.0	0845	02	06			F1B	50	250	
14116.0	0918	12	06			F1B	75	250	
14119.0	1141	13	06			FMCW	50 sps	~13k	OTHR; occup. BW approx 30k
14150.5	0939	17	06			F1B	50	250	often
14160.0	0935	17	06			F1B	50	200	often
14192.0	1409	01	06			F1B	50	500	often
14200.0 VFO USB	2044	04	06			BPSK	16x75	2k2	Burst system; 16 tones, 2 Pilottones
14220.0	0757	08	06			F1B	50	500	
14221.0	2017	04	06			F1B	50	200	
14233.0	0749	02	06			J7D	12x120	2k7	BPSK; CIS12
14242.0	1553	29	06			J7D	12x120	2k7	BPSK; CIS12
14257.875	0919	17	06			F1B	50	500	
14295.1	1629	03	06	TDJ		A3E		~9k	3 rd from 4765 – Radio Tajikistan
18081.7	1624	30	06			OFDM 73	30	2K7	Subcarriers QPSK modulated; tone spacing 37.48Hz, 1500Hz intro tone
18100.0	0857	02	06		E401	MFSK8	125	1750	MIL 188-141A
18100.0	0901	02	06		L601	MFSK8	125	1750	MIL 188-141A
18100.0	0905	02	06		B301	MFSK8	125	1750	MIL 188-141A; LQA
18150.0	0826	09	06			F1B	100	1000	2 nd harmonic
21145.0	1556	12	06		C3	MFSK8	125	1750	MIL 188-141A often
21145.0	1637	12	06		C4	MFSK8	125	1750	MIL 188-141A
21145.0	0922	02	06		E401	MFSK8	125	1750	MIL 188-141A; To: CD
21145.0	1626	28	06		GR2	MFSK8	125	1750	MIL 188-141A
21212.0	0920	12	06			FMCW		10	OTHR
21298.6	1556	13	06			F1B	600	600	ARQ system
21380.0	1105	19	06			unid		~6k	unidentified; intro beep



kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
21438.0	0853	02	06		RCV	A1A			letters and figures almost daily
28005.0	0706	17	06			F3E			Taxi
28165.0	0705	17	06			F3E			Taxi
28175.0	0705	17	06			F3E			Taxi
28185.0	0704	17	06			F3E			Taxi
28195.0	0703	17	06			F3E			Taxi
28200.0	0733	17	06			F3E			Taxi
28265.0	0707	17	06			F3E			Taxi
28870.0	0727	17	06			F3E			Taxi
28960.0	0818	14	06			OTHR	150 + 315 sps	~ 30-40k	Burst system often

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

Peter A. Jost / HB9CET
Vice-Coordinator IARU Monitoring System R1
Friedheimstrasse 34b
CH 8057 Zürich
E-Mail: guard@uska.ch

USKA Radio Monitoring
www.uska.ch/monitoring
Member of IARU Monitoring System
www.iaru.org/monitoring-system
www.iarums-r1.org/

STANAG 4285

The picture shows a STANAG 4285 signal, analyzed with a WAVECOM W-Code 8.8 Classifier, showing also the typical phase-plane.

STANAG 4285 is a NATO standard and is a single-tone waveform consisting of an 1800 Hz sub-carrier with PSK-8 modulation. The symbol rate is always 2400 Bd. The ACF (Auto Correlation Factor) is 106.67 milliseconds.

Sometimes found in several ham bands, almost daily on 80m during nighttime.

