



Monitoring Report September 2019

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m, 60m and 30m band informational only!									
3525.0 USB	2223	19	09			G1D PSK-8	2400	2k7	LINK 11 SLEW
3525.0	2206	24	09			DQPSK	14x75	ca. 6k1	LINK 11 DSB often
3527.0	2136	25	09			F1B	50	200	daily
3527.0	2137	25	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
3532.0	2127	16	09			DQPSK	14x75	ca. 6k1	LINK 11 DSB often
3548.0	2119	16	09			F1B	50	200	
3549.0 USB	2116	16	09			G1D PSK8	2400	2k7	MIL 188-110A (D2) mod (Hybrid) preamble 4 tones, PSK4 75Bd 450Hz spacing often
3570.0	2112	21	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
3580.0 USB	2122	16	09			G1D PSK8	2400	2k7	Stanag 4285 almost daily
3588.0	2141	25	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
3601.0	1958	23	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
3610.0	2000	23	09			DQPSK	14x75	ca. 6k1	LINK 11 DSB often
3631.0 USB	2004	23	09			G1D PSK8	2400	2k7	MIL 188-110A (D2) mod (Hybrid) preamble 4 tones, PSK4 75Bd 450Hz spacing
3697.0 USB	2211	24	09			G1D PSK8	2400	2k7	MIL 188-110A D2 mod (Hybrid); preamble 4 tones, PSK4 75Bd 450Hz spacing
3715.0	2114	21	09			G1D PSK8	2400	2k7	Stanag 4285 almost daily
3732.8	2002	23	09			G1D PSK8	2400	2k7	MIL 188-110A (D2) mod (Hybrid); preamble 4 tones, PSK4 75Bd 450Hz spacing
3732.8	2002	23	09			G1D PSK8	2400	2k7	MIL 188-110A (D2) mod (Hybrid); preamble 4 tones, PSK4 75Bd 450Hz spacing
3741.5	2118	21	09			F1B	50	200	often
3774.0	2216	24	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
5359.0 USB	2228	20	09			G1D PSK8	2400	2k7	LINK 11 SLEW legal !
5365.0	2146	27	09			P0N	43 sps	40k	OTHR (weak in HB9, strong in JA) 5345-5385 kHz
7000.0	0753	25	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
7016.0	0947	02	09			F1B	75	250	often
7020.0	2147	25	09			F1B	xx	200	
7022.0	1551	25	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D; idling
7030.0	1519	16	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D often
7032.0	0842	24	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
7035.0	1929	17	09			F1B	75	250	
7039.4	2239	24	09		M	A1A			Magadan (very weak) daily
7044.0	1312	26	09			F1B	50	250	
7051.0	1343	18	09			J7D	12x120	2k7	BPSK; CIS12 aka AT3004D
7080.0	1952	23	09			F1B	50	200	



USKA - Bandwacht

Member of IARU Monitoring System R1



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7122.0	1632	24	09			F1B	75	200	
7137.0	1934	17	09			F1B	50	200	
7140.0	1541	25	09	ERI	VOBM	A3E		ca. 9k	BC often
7170.0	1514	16	09			F1B	75	200	often
7178.0	1033	30	09			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D often
7179.3	1033	30	09			A1A			Jammer: long lasting dash's over the pilot tone of CIS12; stupid and illegal !
7179.0	1209	25	09			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D often
7180.0	1731	02	09	ERI	VOBM	A3E		ca. 9k	BC almost daily
7197.0	1706	24	09	TUR	375013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	1717	24	09	TUR	334013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	1844	24	09	TUR	316013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	1904	24	09	TUR	337013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	1957	24	09	TUR	306013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2001	24	09	TUR	367013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2019	24	09	TUR	331013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2044	24	09	TUR	314013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2058	24	09	TUR	347013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2105	24	09	TUR	317013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2141	24	09	TUR	348013	MFSK8	125	1750	ALE, MIL 188-141A
7197.0	2145	24	09	TUR	302013	MFSK8	125	1750	ALE, MIL 188-141A
10114.745	0734	20	09			F1B	100	1000	very disturbing, but legal !
14007.75	1001	18	09			A1A			Jammer, fast dots only.
14008.0	1001	18	09			F1B	50	500	often
14062.0	0850	27	09			FMOP	67 sps	10k	OTHR; Bursts; BD 3.8s "Foghorn"
14113.495	0706	26	09			F1B	600	600	ARQ
14132.0	1326	23	09			FMOP	xx	appx 10k	OTHR; few short bursts only
14132.0	0818	26	09			FMOP	40 sps	appx 12k	OTHR, Contayner 29B6
14137.0	0801	26	09			FMOP	xx	appx 10k	OTHR; only short emission
14140.0	1034	23	09			FMOP	xx	appx 10k	OTHR; few short bursts only
14144.0	0859	27	09			FMOP	xx	appx 10k	OTHR; few short bursts only
14165.0	0858	18	09			FMOP	67 sps	10k	OTHR; Bursts; BD 3.8s "Foghorn"
14169.0	0929	16	09			F1B	50	200	often
14171.0	1517	25	09			J7D	12x120	2k7	PSK-4; CIS12 aka AT3104D
14172.0	1009	23	09			FMOP	xx	appx 10k	OTHR; few short bursts only
14175.0	1136	26	09			FMOP	40 sps	appx 12k	OTHR, Contayner 29B6
14177.0	0855	18	09			FMOP	67 sps	10k	OTHR; Bursts; BD 3.8s "Foghorn"
14181.0	1041	26	09			FMOP	xx	appx 10k	OTHR; few short bursts only
14190.0	1138	26	09			FMOP	40 sps	appx 12k	OTHR, Contayner 29B6
14221.0	0554	26	09			F1B	50	200	often
14242.0	0745	19	09			J7D	12x120	2k7	CIS12 idling
14259.0 USB	0854	02	09			OFDM60	30	ca. 2.75k	PSK-4; spacing 44.45Hz; pilottone
14271.0	0940	23	09			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D often
14272.0	0920	27	09			F1B	50	500	
14299.0	0752	20	09			FMOP	xx	10k	OTHR
14300.0 USB	0716	26	09			OFDM60	29.63	ca. 2.79k	PSK4; spacing 44.45Hz; pilottone
14309.0	0826	26	09			FMOP	67 sps	10k	OTHR; Bursts; BD 3.8s "Foghorn"
14310.0	0940	16	09			FMOP	67 sps	10k	OTHR; Bursts; BD 3.8s "Foghorn"
14318.435	0612	26	09			F1B	600	600	ARQ



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14320.0	0604	26	09			xxx	67 sps	10k	OTHR; Bursts
14341.8	1224	25	09			OFDM	appx 37	3k0	spacing 46.85Hz
18070.0	1037	26	09			FMCW	50 sps	20k	OTHR UK base Cyprus
18080.0	0752	19	09			A3E		ca. 9k	BC: Chinese daily
18090.0	0856	21	09			FMCW	50 sps	20k	OTHR UK base Cyprus
18107.0	1007	02	09	RUS	RDL	F1B	36/50	200	CIS 36-50; almost daily TDoA: area of Moscow
18140.0	1001	23	09			FMOP	67sps	10k	OTHR; Bursts, BD 3.8s "Foghorn"
28000.0	1116	30	09	IRN		xxx	307+ 870 sps	appx 50k	OTHR, Bursts, alternating sweep rates
28050.0	1124	30	09				25 sps	20k	OTHR
28350.0	1128	30	09				50 sps	20k	OTHR
28860.0	1058	30	09	IRN		xxx	150 + 313 sps	appx 45k	OTHR, Bursts, alternating sweep rates daily

Errors and omissions excepted

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

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
DF = Direction finding (radio location) // **TDoA** Time difference of arrival // **aka** = also known as // **appx** = approximate

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Und immer wieder Überhorizont-Radare (OTHR)

Fast täglich und auf verschiedenen Bändern anzutreffen ist ein Burst Radar, dessen Ursprung in China vermutet wird. In der Bandwacht ist es bekannt unter dem Nickname «*Foghorn*», da es ähnlich wie ein Nebelhorn klingt. Wechselt oft nach nur wenigen Bursts die Frequenz, deshalb mit TDoA des KIWI SDR kaum zu orten.

Mode: FMOP (frequency modulated on pulse)
Sweep Rate: 67 sps
BD: 3.8s, also 7.6s
BRI: 9.2s, also 11.2s
BW: ca. 10 kHz

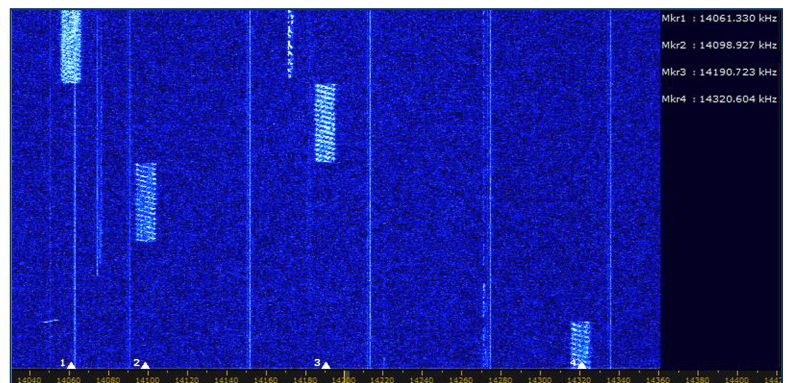


Bild (© DK2OM): gleich 4x «Foghorn» ►

Screenshot mit Perseus SDR; Analysen mit W-Code 10.0 (Wavecom Elektronik AG Bülach)