USKA Monitoring Report April 2021

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 | **vd** = various dates | **vt** = various times | **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
3510.0 **RF USB**	2201	29	04			?		ca 3k0E	unid Chirp sound, long lasting, daily
3527.0	2206	29	04			F1B		200H	
7000.0	0105	30	04			N0N		10H	long lasting carrier
7012.0	1112	30	04			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK; idling
7054.0	1657	30	04			F1B		200H	weak, strong fading
7064.0	1651	30	04			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK, pilot at 3300Hz weak (strong via rx in JA)
7074.995	1623	28	04			A1A			mostly only dashes (as a 0) almost daily
7096.0	0829	28	04			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK, pilot at 3300Hz
7111.0	2219	05	04			FMOP	40 sps	12k0E	OTHR; Contayner
7114.0	1606	28	04	RUS		J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK
7114.0	2144	29	04	RUS	RDL	F1A		200H	
7114.0	2149	29	04	RUS	RDL	F1B		200H	ID in F1A
7115.0	0101	30	04			A1A		10H	letters and figures
7118.0	1612	28	04	RUS		J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK
7134.0	1753	05	04			F1B		200H	
7137.0	2221	05	04			FMOP	41sps	10k0E	OTHR; bursts; Foghorn
7137.0	2321	30	04			F1B		200H	
7140.0	1813 1607	05 28	04	ERI	VOBM 1	A3E		ca 9k0E	BC: Voice of the broad Masses 1 often
7142.0	1333	05	04			F1B	50	250H	somtimes F1A FSK-CW; often
7159.0 **RF VFO USB**	2207	05	04			G7D	75 Bd	ca 2k50E	LINK11 CLEW SSB mode
7170.0	0729	27	04			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK, pilot at 3300Hz
7176.0	1712	30	04			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK, pilot at 3300Hz
7180.0	1714	30	04	ERI	VOBM 2	A3E		ca. 9k0E	BC: Voice of the broad Masses 2, often
7186.0	0826	28	04			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK, pilot at 3300Hz with carrier at 7184 kHz
7198.0	0739	22	04			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK, pilottone; with carrier at 7196 kHz; actually idling
7198.0	1504	29	04			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK
14000.0	1435	03	04			A3E		ca. 9k0E	Intermodulation 13710 + 13855 kHz: (probably China Radio International
14008.0	0821	08	04	RUS		F1B		250H	often
14046.5	0724	06	04			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK; idling and traffic
14105.0	0934	01	04			FMOP	66.66 sps	10k0E	OTHR; Bursts "Foghorn"
14142.0	1501	23	04			FMOP	40 sps	12k0E	OTHR; Contayner
14158.0	1554	28	04			FMOP	40 sps	12k0E	OTHR; Contayner
14165.0	0917	28	04			Radar	10 sps	160k0E	Wideband OTHR; long lasting

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
14167.0	1151	30	04			FMOP	66.66 sps	10k0E	OTHR; Bursts "Foghorn"
14198.0	0732	27	04			Radar	10 sps	160k0E	Wideband OTHR; long lasting
14239.0	0820	30	04			Radar	10 sps	160k0E	Wideband OTHR
14244.0	0929	01	04			FMOP	66.66 sps	10k0E	OTHR; Bursts "Foghorn"
14253.07	1511	23	04			F1B	75 Bd	250H	long lasting
14292.0	1155	30	04			FMOP	66.66 sps	10k0E	OTHR; Bursts "Foghorn"
14302.0	0923	22	04			FMOP	66.66 sps	10k0E	OTHR; Bursts "Foghorn"
14306.0	0802	30	04			FMOP	40 sps	12k0E	OTHR; Contayner; long lasting
14341.0	0737	06	04			FMOP	66.66 sps	10k0E	OTHR; Bursts "Foghorn"
18063.0	1531 1119	04 30	29			FMOP	40 sps	12k0E	OTHR; Contayner; partially in 17m band
18107.0	0824	22	04	RUS	RDL	F1B	36/50	200H	CIS 36-50 often
21110.0	1323	30	04			FMCW	25 sps	ca 20k0E	OTHR (UK-base Cyprus)
21118.6	0941	30	04			F1B/ARQ	600 Bd	600H	FSK ARQ system
21135.0	0809	27	04			FMCW	25 sps	ca 20k0E	OTHR (UK-base Cyprus)
21270.0	0937	01	04			FMCW	25 sps	ca 20k0E	OTHR (UK-base Cyprus), strong S9+
21438.0	0941 0929	01 25	04	RUS	RCV	A1A		10H	TDoA: Area of Sevastopol daily

Errors and omissions excepted

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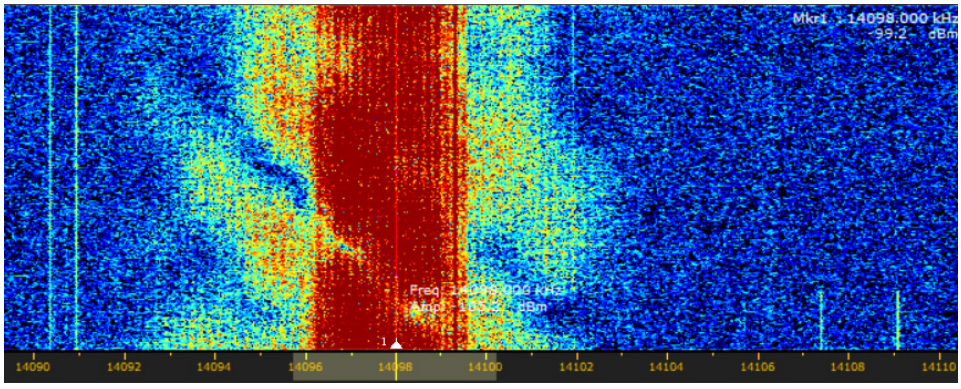
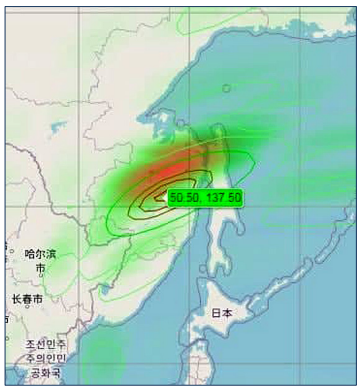
CIS-12; at 14098 kHz (CF)
12x120Bd, BPSK or QPSK modulated, tone spacing 200Hz, pilottone at 3300Hz; BW ca 2k70E



Screenshot mit Perseus SDR)
Schwach in der Schweiz, stark via remote rx in JA (© HB9CET)



TDoA mit KIWI rx; Region Komsomolsk am Amur (© DK2OM)