



Monitoring Report January 2020

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
3509.0	2147	20	01			F1B	75	200	
3510.0 USB	2142	20	01			xx		ca. 3k	unid mysterious chirps ca 450Hz spacing often
3527.0	2214	02	01			F1B	50	200	
3548.0	2216	02	01			F1B	50	200	
3581.8	2218	02	01			G1D	2400	3K00E	STANAG 4285
5361.8	2322	07	01	DNK		G1D	2400	3K00E	STANAG 4285 legal !
6999.8	1305	13	01			G1D PSK8	2400	2k70E	MIL 188-141B (D2)
7000.0	2301	05	01			J3E-U		ca 2k1	Spanish; South - American accent Conversation over >30'
7000.0	1642	07	01			J3E-U		ca 2k1	unident language (Balkans ?)
7000.000	2246	13	01			NON			Long lasting carrier
7008.0	1419	23	01			F1B	75	250	often
7010.0	1001	08	01			G7D	2400	2k7	ALE, MIL 188-110B
7010.0	1012	08	01			PSK-2A	1200	ca 2k20E	CIS Makhovik (aka T-230)
7013.0	2231	28	01			MFSK8	125	2k7	ALE, MIL 188-141A
7014.0	1323	29	01			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
7015.0	0823	02	01			F1B	50	200	CIS 50-50
7022.0	2353	19	01			G1D	2400	2K70E	MIL 188-xxx 1800Hz single tone modem
7027.0	1909	02	01			F1B	XX	200	
7029.0	2247	23	01			FMOP	66.66 sps	10k0E	OTHR; short bursts only; BD ca 3.8 s
7031.0	1746	02	01		1746	MFSK8	125	2k00E	ALE, MIL 188-141A
7051.0	2322	27	01			F1B	50	200	almost daily
7055.0	1427	23	01			J3E-L		ca 2k90E	Political statements, sounds russian
7060.0	1034	27	01			J3E-L		ca 2k90E	Music / rap's; hate statements
7079.5	1735	02	01			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D often
7086.2	0952	14	01			G1D	2400	2k7	short bursts only BD ca 0.5s
7088.0	2317	27	01			F1B	75	200	often
7089.0	1541	24	01			J7D	12x120	2k70E	PSK-2; CIS12 aka AT3004D
7089.8	0914	14	01			G1D PSK-8	2400	2k70E	LINK 11 SLEW
7095.0	1916	24	01			G1D PSK-8A	2400	3k00E	MIL 188-141B, App. C; aka STANAG 4539 - Waveforms BW2 to BW4
7100.0	1234	15	01			FMOP	40 sps	ca 12k	OTHR; Contayner 29B6
7106.0	1514	30	01			FMOP	50	10k0E	OTHR; bursts, BD appx 10s
7113.0	2236	23	01			FMOP	66.66 sps	10k0E	OTHR; short bursts only; BD ca 3.8s
7118.0	1711	14	01			J7D	12x120	2k70E	PSK-2; CIS12 aka AT3004D
7122.0	0942	14	01		RDL	F1A		200	often
7122.0	1416	23	01			F1B	75	250	often
7140.0	1612	03	01	ERI	VOBM	A3E		~ 9k	BC (Voice of the broad Masses) daily
7144.0	0809	02	01			J7D	12x120	2k70E	PSK-2; CIS12 aka AT3004D
7147.0	1430	23	01			F1B	X	200	short sequence, also short F1A
7150.0	1637	08	01		0228	MFSK8	125	1750	ALE, MIL 188-141A
7171.0	1334	29	01			J7D	12x120	2k70E	PSK-2; CIS12 aka AT3004D
7179.0	1211	08	01			J7D	12x120	2k70E	PSK-2; CIS12 aka AT3004D often
7185.0	1349	08	01			FMOP	10	ca 10k	OTHR; short sequences only
7187.0	1321	03	01			FMOP	10	ca 10k	OTHR; short sequences only



kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
7190.0 LSB	2151	20	01			PSK-2	30x60Bd	ca. 2k0E	PRC 30; Burst system; tone spacing 75 Hz; Preamble 4x PSK2 60Bd, spacing 600Hz; Pilot tone at 450Hz
7191.0	1457	23	01			FMOP	40 sps	ca 12k	OTHR; Contayner 29B6
7192.5	2248	04	01			FMOP	10	ca 10k	OTHR; short sequences only
7193.0	1021	07	01	RUS	RDL	F1B	50	200	TDoA: Area Kaliningrad almost daily
7193.0	1321	08	01	RUS		F1B	36 + 50	250	CIS 36-50 TDoA: Kaliningrad
7193.1	1011 0934	09 14	01	RUS		A1A			Jammer, dashes and dots: stupid and illegal
7195.0	2237	04	01			FMOP	40 sps	ca 12k	OTHR; Contayner 29B6
7197.0	vt	02	01	TUR	various	MFSK8	125	1750	ALE, MIL 188-141A; Network
7197.0	2135	02	01	TUR	123466	MFSK8	125	1750	ALE, MIL 188-141A; Network
7197.0	1532	13	01			FMOP	10	ca 10k	OTHR; short sequences only
7199.0	0915	29	01			F1B	75	200	
14093.0	1033	28	01			FMOP	40 sps	12k	OTHR; Contayner 29B6; long lasting
14099.0	1246	10	01			FMOP	40 sps	12k	OTHR; Contayner 29B6; long lasting
14119.0	0701	07	01			FMOP	50 sps	10k	OTHR, long lasting
14224.0	0717	07	01			FMOP	66.66 sps	10k	OTHR; Bursts, BD ca 7.6s (Foghorn)
14259.0	1002	20	01			FMOP	50 sps	10k	OTHR; Bursts: BD 5s
14260.0	0807	15	01			FMOP	50 sps	10k	OTHR; long lasting
14280.0	1015	08	01			A3E		2k1	Female voice: russian: figures only
14312.0	0943	20	01			FMOP	50 sps	10k	OTHR; Bursts: BD 5s, BRI18s
14323.3	1239	13	01			F1B	600	600	ARQ; strong QSB often
14340.0	1227	23	01			FMOP	40 sps	12k	OTHR; Contayner 29B6; long lasting

Errors and omissions excepted

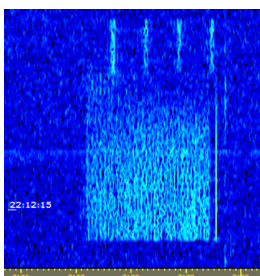
Analysis with W-Code 10.0 from Wavecom Elektronik AG; TDoA with Kiwi SDR; rx: Perseus SDR

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

aka = also known as | **BC** = Broadcast | **BD** = Baud, or also Burst duration | **BRI** = Burst repetition interval | **BW** = Bandwidth
ca = approximate | **DF** = Direction finding (radio location) | **FMCW** = frequency modulated continuous wave | **FMOP** = frequency modulated on pulse | **OTHR** = over the horizon radar | **PRC** = CHN People's Republic of China | **SH** = Shift (Hz) |
sps = sweeps per second | **PRC** = People's Republic of China | **TDoA** Time difference of arrival | **vd** = various dates
vt = various times.

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Seit einiger Zeit oft anzutreffen, vor allem im 40m Band

CHN 30 (aka PRC 30) Datalink Modem

Burst System, LSB mode
 30 Töne, PSK-2 60Bd moduliert, spacing 75 Hz
 Preamble 4x PSK-2 60Bd, spacing 600Hz; Pilot Ton bei 450Hz

Screenshot mit Perseus SDR