



IARU Monitoring System Region 1 Monthly Newsletter 4 - April 2021

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News and Info's

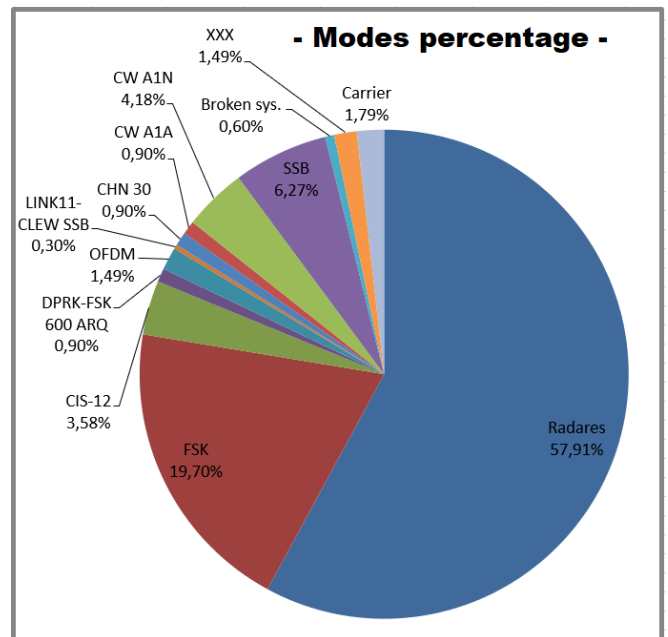
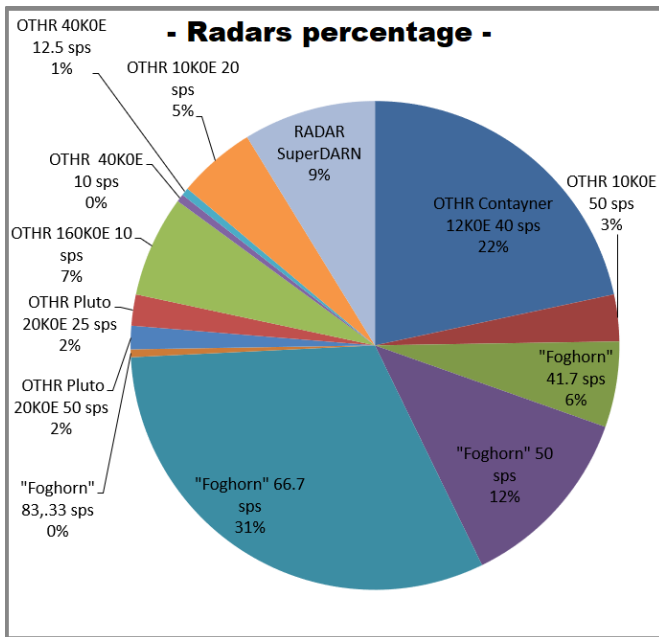
Compared to the months before, there were hardly any changes in Intruder activities in April either. Loosely based on the skit "Dinner for one" one can say "The same trouble-makers as every month", the OTHR by far the most troublesome! Back on the scene was SuperDarn (Super Dual Auroral Radar Network), a network of international scientific radar's.

What is always surprising is how strongly intruders from the Far East can be heard here, sometimes even during the day in the 40m band (e.g. the 160 kHz wideband radar or also some other radars, like the "Foghorn" (nickname) or similar.

The graphs created by Gaspar, EA6AMM (based on his own observations) also for April represent the situation very well and they say more than a thousand words (Percentage of different modes and percentage of different types of OTHR).

Silent Key VU2UR: We just received the sad news that Arasu Manohar, VU2UR passed away recently. From 1999-2009 Arasu was IARUMS Coordinator R3 and he reported from India until 2019. Farwell Arasu.

7



Detailed reports of national coordinators

Abbreviations used (as per IARUMS definitions; please do not use "own, home brew" abbreviations)

aka = also known as | **BC** = Broadcast | **BD** = Baud, (or also Burst duration) | **BRI** = Burst repetition interval
BW = Bandwidth | **ca** = approximate | **CHN** = PRC = People's Republic of China | **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 | **Radar** = if mode unknown
SH = Shift (Hz) | **sps** = sweeps per second | **TDoA** = Time difference of arrival | **ui** = **unid** = unidentified
vd = various dates | **vt** = various times.

CF: Frequencies of digital signals are usually **Center Frequencies (CF)**, unless otherwise specified!

DARC; Credits to Monitors: DK2OM Wolf, DF5JL Tom, DK2HM Hans-Martin, DL3RTL Daniel, DB3TA Alex									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
1814.0 CF	vt	dly	04	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – shared band
3510.0 RF	1700	dly	04	RUS		chirps		3k	mysterious chirps – 60 km east of Bryansk – shared band
3510.6	1914	30	04			A3E			CIS pirates – unstable carriers
3517.2	vt	vd	04	E		LSB			Spanish fishery – ship traffic - often
3555.0	1903	02	04	E		USB			Spanish fishery
3581.8	ady	dly	04	TUR		PSK8A	2400	2400	Stanag-4285 – Ankara – shared band!
3756.8 RF	1800	dly	04	RUS		USB			RUS MIL – channel marker – 4 tones - Tuapse – East Black Sea (nw of Sochi) – night QRG
5350.0	1950	19	04	E		USB			Spanish fishery back again - splattering up
5361.8 RF	ady	dly	04	DNK		PSK8A	2400	2400	Stanag-4285 – assigned to Danish Navy – Frederikshavn - primary user!
7000.0	1844	16	04	RUS		FMOP	40	12k	OTHR Contayner
7007.0	1658	23	04	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7009.0	1744	19	04	CHN		FMOP	41.5	10k	Chinese OTH radar – 7004 – 7014 kHz -6.1 sec bursts
7014.0	1720	09	04	CHN		FMOP	68.2	10k	Chinese OTH radar – 7009 – 7019 kHz - 3.8 sec bursts
7017.9	1205	03	04			PSK		2k8	CIS-12
7021.8	1735	26	04			PSK		2k5	CIS-12
7027.0	1901	14	04	CHN		FMOP	66.1	10k	Chinese OTH radar – 7022 – 7032 kHz – 3.8 sec bursts
7035.0	1942	19	04	CHN		FMOP	50	10k	OTHR 5.1s bursts
7039.0	1849	04	04	RUS	"C"	A1A			cluster beacon "C" – Moscow – "RIW"
7039.2	1845	04	04	RUS	"F"	A1A			Cluster beacon "F" - Vladivostok RUS Navy - "RJS"
7044.0	1743	27	04	CHN		FMOP	65.5	10k	Chinese OTH radar – 7039 – 7049 kHz - 3.8 sec bursts
7044.0	1658	23	04	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7050.0	1602	02	04	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7052.0	1705	19	04	CHN		FMOP	66.4	10k	Chinese OTH radar – 7047 – 7057 kHz – 3.8 sec bursts
7055.0	vt	dly	04	UKR		J3E-L		2k9	UKR-RUS radio war
7057.0	0541	02	04	RUS				1k	unid. 21 subcarrier
7057.0	0930	03	04					1k6	unid. 21 subcarrier
7060.0	0615	11	04	UKR		JE3-L		2k9	russian voices. no call
7064.0	2048	12	04	RUS		FMOP	40	12k	OTHR Contayner
7065.0	1930	16	04	RUS		FMOP	40	12k	OTHR Contayner
7088.0	1604	02	04	CHN		FMOP	50	10k	OTHR 5.1s bursts
7088.0	2026	08	04	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7096.0	1935	09	04	RUS		FMOP	40	12k	OTH radar Contayner - W of Saransk – 7090 – 7102 kHz
7102.0	2044	19	04	CHN		FMOP	41.67	10k	OTHR 6.12s bursts
7105.0	1707	22	04	CHN		FMOP	65.8	10k	Chinese OTH radar – 7100 – 7110 kHz – 3.8 sec bursts
7114.0	2015	13	04	RUS	RDL	F1B	50	200	ident on F1A "RDL" – St. Peterburg
7114.0	1640	28	04	RUS		PSK2A	120	2600	CIS-12 - Kaliningrad
7117.0	2047	14	04	CHN		FMOP	66.1	10	Chinese OTH radar – 7112 – 7122 kHz – 3.8 sec bursts

DARC; Credits to Monitors: DK2OM Wolf, DF5JL Tom, DK2HM Hans-Martin, DL3RTL Daniel, DB3TA Alex									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7119.0	1753	01	04	CHN		FMOP	67.3	10k	Chinese OTH radar – 7114 – 7124 kHz - 3.8 sec bursts
7123.0	1956	19	04	CHN		FMOP	50	10k	OTHR 5.1s bursts
7123.0	2055	19	04	RUS		FMOP	40	12k	OTHR Contayner
7126.0	1930	21	04	RUS		FMOP	40	12k	OTHR Contayner
7126.0	2027	08	04	CHN		FMOP	50	10k	OTHR 5.1s bursts
7130.0	1703	23	04	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7131.0	1721	23	04	CHN		FMOP	67.6	10k	Chinese OTH radar – 7126 – 7136 kHz - 3.8 sec bursts
7134.0	1650	05	04	RUS		F1B	50	200	Vladivostok – daily
7140.0	1705	dly	04	ERI	VOBM	A3E/BC		9k	7140.021 kHz – voice of the broad masses - Eritrea
7144.0	2043	19	04	CHN		FMOP	41.67	10k	OTHR 6.12s bursts
7148.0	1636	13	04	CHN		MFSK8	125	1750	MIL-188-141A – (ALE) - "369" - and CHN voice traffic usb – CHN AF
7150.0	1900	15	04	CHN		FMOP	50	10k	OTHR 5.1s bursts
7151.0	1615	15	04	CHN		FMOP	66.66 49.8	10k	Chinese OTH radar – 66.66 and 49.8 sps - 7146 – 7156 kHz – together 9.0 sec bursts – long lasting
7151.0	1705	26	04	RUS		FMOP	40	12k	OTHR Contayner
7153.0	1700	15	04	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7153.0	1700	15	04	CHN		FMOP	50	10k	OTHR 5.1s bursts
7161.0	2030	08	04	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7165.0	1747	17	04	CHN		FMOP	66.4	10k	Chinese OTH radar – 7160 – 7170 kHz – 3.8 sec bursts
7174.0	2028	08	04	CHN		FMOP	50	10k	OTHR 5.1s bursts
7175.0	2004	19	04	CHN		FMOP	41.67	10k	OTHR 6.12s bursts
7176.0	2018	19	04	CHN		FMOP	41.1	10k	Chinese OTH radar – 7171 – 7181 kHz -6.1 sec bursts
7180.0	1409	dly	04	ERI	VOBM	A3E		9k	7180.021 kHz - Radio Eritrea
7193.0	2052	21	04	RUS		FMOP	40	12k	OTHR Contayner
7198.0	0750	22	04	RUS		PSK2A	120	2600	CIS-12 - Moscow
10100.8	ady	dly	04	D	DDK9	F1B	50	450	Baudot - German Weatherservice – legal!
10146.0	1435	03	04	CHN		FMOP	41.4	10k	Chinese OTH radar – 10141 – 10151 kHz - 6.2 sec bursts
10151.0	1715	19	04			FMOP	40	12k	OTHR
10348.0	0915	08	04	CHN		FMOP	50.2	10k	Chinese OTH radar – 14343 – 14353 kHz – 10.2 sec bursts
14111.0	1330	22	04	CHN		FMOP	42.1	10k	Chinese OTH radar – 14106 – 14116 kHz – 6.1 sec bursts
14117.0	0906	08	04	CHN		FMOP	66.4	10k	Chinese OTH radar – 14112 – 14122 kHz – 3.8 sec bursts
14163.0	1332	27	04	CHN		FMOP	62.3	10k	Chinese OTH radar – 14158 – 14168 kHz - 3.8 sec bursts
14173.0	0914	28	04	CHN		FMOP	67.0	10k	Chinese OTH radar – 14168 – 14178 kHz - 3.8 sec bursts
14191.0	1034	26	04	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk – 14185 – 14196 kHz
14212.0	1206	04	04	UKR		NON + USB		2400	female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine in Rivne – every Thursday at 1206 utc – msgs at 1214 utc

DARC; Credits to Monitors: DK2OM Wolf, DF5JL Tom, DK2HM Hans-Martin, DL3RTL Daniel, DB3TA Alex

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14237.0	0838	30	04	CHN		FMOP	10	160k	Chinese wideband OTHR – 14157 – 14317 kHz
14247.0	1330	25	04	CHN		FMOP	41.67	10k	OTHR 6.12s bursts
14253.0	1407	23	04	RUS		F1B	75	250	Moscow
14255.0	1436	09	04	RUS		PSK2A	120	2600	CIS-12 - Penza
14255.0	0822	21	04	CHN		FMOP	68.2	10k	Chinese OTH radar – 14250 – 14260 kHz - 3.8 sec bursts
14255.0	1305	21	04	CHN		FMOP	41.5	10k	Chinese OTH radar – 14250 – 14260 kHz – 6.1 sec bursts
14273.0	1030	05	04	CHN		FMOP	40.9	10k	Chinese OTH radar – 14268 – 14278 kHz - 6.1 sec bursts
14280.0	1014	wed nesd ay	04	UKR		A3E			female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine in Rivne
14282.0	0859	14	04	CHN		FMOP	64.9	10k	Chinese OTH radar – 14277 – 14287 kHz – 3.8 sec bursts
14328.0	1300	25	04	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
14332.0	1325	25	04	CHN		FMOP	41.67	10k	OTHR 6.12s bursts
14340.0	1313	22	04	CHN		FMOP	10	160k	Chinese wideband OTHR – 14260 – 14420 kHz
14346.0	1011	21	04	CHN		FMOP	67.9	10k	Chinese OTH radar – 14341 – 14351 kHz - 3.8 sec bursts
18107.0	0904	24	04	RUS	RDL	F1B	36/50	200	CIS-36-50 - Moscow – idle and traffic – often - Russian navy – shared band
18138.0	0855	28	04	CHN		FMOP	65.2	10k	Chinese OTH radar – 18133 – 18143 kHz - 3.8 sec bursts
21332.0	1013	08	04	CYP		FMOP	25	20k	UK OTH radar Cyprus – 21322 – 21342 kHz
21438.0	vt	dly	04	RUS	RCV	A1A			RCV - RUS Navy Sevastopol with QTCs RIP90 de RCV - daily active

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3723	1700	07	04	E or MM		USB			Group of Spanish fishermen chatting. Very loud.
7055	1730	04	04	RUS or UKR		LSB			Russian- Ukrainian radio war. Propaganda slogans and patriotic music. Daily all day long.
7097	1010	28	04			PSK			Strong and persistent signal. Gone at 1115z.
7114	1510	27	04			F1B			Strong, persistent.
7138	1600	02	04			PSK			Link-11 Clew. Medium signal.
7140	1645	23	04	ERI		AM			Radio Eritrea. Very weak now. Heard only a few times during the month.
7170	1510	19	04			RADAR			7170 to 7181 kHz. Medium strength. Moving up and down the band.
7176	1815	08	04			RADAR			7176 to 7191 kHz. Intermittent.
7178	1525	04	04			RADAR			7178 to 7190 kHz. Strong and intermittent.
7180	1415	27	04			RADAR			7180 to 7192 kHz. Strong. On and off.
7180	1650	23	04	ERI		AM			Radio Eritrea. Barely audible. Heard just a few times during the month.
14000	2010	16	04	B or MM		USB			Brazilian fishermen. Motor noise in background.

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14000	1025	28	04			RADAR			14000 to 14350 kHz. Very weak radar in the background, moving up and down the band for hours.
14160	1710	07	04			RADAR			14160 to 14172 kHz. Weak signals.
14180	1230	27	04			RADAR			14180 to 14192 kHz. Medium signals. Moving up and down the band for hours.
14250	1200	14	04			RADAR			Chinese Foghorn. 14250 to 14350 kHz. Very strong. Moving up and down in this portion of the band.
14257	1345	14	04			PSK			Strong and persistent.
14297.5	1315	14	04			PSK			Medium strength. On and off.
21198	0845	24	04			RADAR			21198 to 21221 kHz. Huge signals. Persistent.
21255	1030	01	04			RADAR			21255 to 21280 kHz. Very strong and persistent.

OeVSV; Christoph, OE1VMC; Credits to Monitors: OE1TKW, OE3CHC, OE3MZC, OE3JTB

kHz	DD	MM	UTC	ITU	IDENT	MODE	Bd SPS	SH BW	DETAILS
7015.0	07	04	1755			F1B			reported by OE1TKW: Intruder RTTY 1755-1759 ongoing
7016.0	14	04	2023			F1B		280H	reported by OE1TKW
7107.0	17	04	2030	RUS		OTHR	50	19K0E	reported by OE3MZC, OTHR "Kontayner"
21223.5	17	04	1310			J3E-L		2500	Reported by Alex OE3JTB
21333.0	16	04	1450			J3E-L		2500	reported by Alex OE3JTB, Intruders from Asia
21343.0	16	04	1420	INS		J3E-U		2500	reported by Alex OE3JTB, Intruders likely from Indonesia

PZK; Marek, SP3AMO + Miro, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3586.0	1640	22	04		UI	F1B/PSK		400/1200	8x50 Hz / 5x120 Hz
3780.0	0802	16	04	RUS		PSK		2K9	CIS-12 pilot 3781.3 S9 +10dB
5363.5	vt	vd	04			UI		2K9	S5-9 Stanag?
7000.0	2000	16	04		UI	RADAR		16K0E	S 9+10 dB sps 40 Hz [OTHR] QRG CF 6998.0 kHz UP 7006.0 kHz
7053.3	0515	23	04		UI	NON			S 9 [50 Hz]
7056.5	0630	02	04	RUS	UI	FSK/J3E-U			S 8 - sps 50Hz. 9:00 UTC QRT
7060.0	0816	27	04			J3E-L		2K7	Russian-Ukrainian stations quarrelling (7055 clean!)
7061	0735	28	04	RUS		PSK		2K9	CIS-12 pilot 7062.3 S8
7088.0	0514	26	04			A1A			9 wpm
7114	0910	09	04			F1B		500	S8
7114	1534	28	04	RUS		PSK		2K9	CIS-12 pilot 7115.3 S9
7126.4	0640	14	04		UI	NON			S 6/8 - 50 Hz
7144	0937	15	04	RUS		PSK		2K9	CIS-12 pilot 7145.3 S9
7170	0833	14	04	RUS		PSK		2K9	CIS-12 pilot 7171.3 S7
7170	0821	27	04	RUS		PSK		2K9	CIS-12 pilot 7171.3 S9
7177	1232	09	04			RADAR		8K0E	short burst
7178.6	0451	26	04			PSK		1K2	
7186	0738	28	04	RUS		PSK		2k9	CIS-12 pilot 7187.3 S7
14040	1529	21	04			RADAR		10K0E	Short bursts S9+
14127.7	0650	14	04		UI	NON			S 0+
14139.7	0653	14	04		UI	NON			S 0+

PZK; Marek, SP3AMO + Miro, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14150	0932	16	04			RADAR		8KOE	Burst one only
14158	1530	28	04			RADAR		12KOE	S9 continuous
14160	0952	23	04			RADAR		8KOE	Burst one only
14163	1217	27	04			RADAR		8KOE	Burst one only
14169	0741	28	04			F1B		200	S9
14180	0915	09	04	CHN		RADAR		160KOE	S6
14188	0948	16	04			RADAR		8KOE	Burst one only
14202	0720	30	04			RADAR		8KOE	Burst S9
14213.3	0657	14	04		UI	NON			S 0+ - 2 tone 420. 1100 Hz
14218.0	0754	16	04			RADAR		12KOE	Continuous S7
14223.7	0705	14	04		UI	NON			S 0+
14253	0836	19	04			F1B		250	S9 +10dB
14253.1	1352	23	04			UI		400	S8
14303	0827	14	04	CHN		RADAR		10KOE	3 sec. bursts S7
14306	0804	30	04			RADAR		12KOE	Continuous S7
14325	0935	04	04			RADAR		10KOE	short burst
18086	1005	23	04			RADAR		8KOE	Burst one only
18106.7	0728	17	04		UI	F1B	50	200	S 0+ 07:35 UTC QRT
21008.5	1250	03	04		UI	NON			S 0+ sps 50 Hz - 12.55 UTC QSB
21017.4	1257	03	04		UI	NON			
21113.3	0608	18	04		UI	NON			
21175.0	0611	18	04		UI	NON			
21420.0	0925	20	04		UI	NON			
28290.0	0927	20	04		UI	NON			

REF; Francis, F5MIU

kHz	UTC	DD	MM	ITU	IDENT	MODE	Bd/sps	Sh /Bw	DETAILS
14107	0745	17	04				50	10kHz	OTH Radar pulsed 20ms, S7
10150	1722	19	04				40	20kHz	OTH Radar pulsed 25ms, S7
18067	0756	23	04				12.5	30kHz	OTH Radar pulsed 80ms, S7
14220	0758	27	04				10	150kHz	OTH Radar pulsed 100ms, S7
21350	0803	29	04				50	20kHz	OTH Radar pulsed 20ms, S6
14305	0805	30	04				40	15kHz	OTH Radar pulsed 25ms, S7
14014	1636	30	04			USB		3kHz	Unid language Spanish fisherman's ? S3

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3510.0	vt	vd	04			J3E		2K70E	USB 'The Air Horn'
3756.0	vt	vd	04			J3E		1K70E	USB 'The Pip'
5363.6	ady	dly	04	DNK		G1D		2K40E	For info: Stanag 4285, Primary user.
6998.0	1756	26	04	RUS		P0N	40	14KOE	Container radar
7000.0	1900	16	04	RUS		P0N	40	14KOE	Container radar
7000.001	1618 1959	08 09	04			NON			Plain carrier
7012.0	0911 0900	16 23	04			J7D		2K70E	USB 7010.0 / CIS-12
7016.0	1433	14	04			F1B		250	
7022.0	1739	26	04	RUS		J7D		2K70E	USB 7010.0 / CIS-12. TDoA: Moscow area
7065.0	1902	16	04	RUS		P0N	40	14KOE	Container radar
7074.99	vt	vd	04			A1N			Continuous dashes or groups of dashes. ±10 Hz
7059.91	1438	14	04			F1B		250	
7058.0	1857	01	04	RUS		P0N	40	14KOE	Container radar

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7080.0	1700-2100	vd	04			F1B	50	200	On air for short periods ~50% of time
7094.0	2012	13	04	CHN		F3N	47.6	10KOE	FMCW radar bursts
7096.0	2043	10	04	RUS		P0N	40	14KOE	Container radar
7096.0	0745	28	04			J7D		2K70E	USB 7094.0 / CIS-12
7097.0	2005	09	04	RUS		P0N	40	14KOE	Container radar
7112.0	1041	27	04			J7D		2K70E	USB 7110.0 / CIS-12
7114.0	2009 2017 2005	09 13 14	04			F1B		500	
7114.0	1651	28	04			J7D		2K70E	USB 7112.0 / CIS-12
7114.0	1821	28	04			F1B		200	
7122.0	2002	14	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
7123.0	2235	19	04	RUS		P0N	40	14KOE	Container radar
7137.0	1725 1900 2045	01 11 12	04			F1B		200	
7137.000	2011	09	04			N0N			
7140.020	0250-0635, 1400-1835	vd	04	ERI	VoBM1	A3E			BC. Approx times – varies daily
7148.0	1702	28	04	RUS		P0N	40	14KOE	Container radar
7170.0	0742	27	04			J7D		2K70E	USB 7168.0 / CIS-12
7171.0	1812	01	04	RUS		P0N	40	14KOE	Container radar
7180.020	0250-0635, 1400-1835	vd	04	ERI	VoBM2	A3E			BC. Approx times – varies daily
13957.0	0900	13	04	CHN		F3N	10	160K	FMCW radar bursts 13877-14037
14008.0	1250 0900 0816 0812	01 04 08 18	04			F1B	50	250	
14105.0	0950	01	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14110.0	0904	13	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14111.0	0906	13	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14115.0	0904	13	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14117.0	0904	08	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14142.0	1511	23	04	RUS		P0N	40	14KOE	Container radar
14153.0	0910	21	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14160.0	0906	08	04			F1B		250	
14169.0	0741	28	04			F1B		200	
14180.0	0904	05	04	CHN		F3N	50	10KOE	FMCW radar bursts
14182.0	0953	12	04	CHN		F3N	10	160K	FMCW radar bursts
14190.0	0935	11	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14191.0	1027	26	04	RUS		P0N	40	14KOE	Container radar
14244.0	0948 0820	01 13	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14253.07	1518	23	04			F1B		250	RR 5.152 ?
14258.0	0849	02	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14263.0	0853	04	04	CHN		F3N	50	10KOE	FMCW radar bursts
14270.0	0826	13	04	CHN		F3N	10	160K	FMCW radar bursts
14281.0	0823	14	04	CHN		F3N	66.7	10KOE	FMCW radar bursts

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14285.0	0908	05	04	CHN		F3N	50	10KOE	FMCW radar bursts
14297.0	0848	02	04	CHN		F3N	50	10KOE	FMCW radar bursts
14301.9	0829	13	04			J7D		2K80E	USB 14300.0 / CIS-12 (RR 5.152 ?)
14303.0	0824	14	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14306.0	0835	21	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14306.0	1027	30	04	RUS		P0N	40	14KOE	Container radar
14321.0	0848	08	04	CHN		F3N	41.7	10KOE	FMCW radar bursts
14325.0	0857	04	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14325.0	0912	21	04	CHN		F3N	62.5	10KOE	FMCW radar bursts
14339.0	0847	02	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14345.0	0937	21	04	CHN		F3N	66.7	10KOE	FMCW radar bursts
14347.0	0915	08	04	CHN		F3N	50	10KOE	FMCW radar bursts
18070.0	0919	05	04	G		F3N	25	20KOE	FMCW radar, RAF Akrotiri, Cyprus
18090.0	0834	01	04	G		F3N	25	20KOE	FMCW radar, RAF Akrotiri, Cyprus
18107.0	1322 1543	09 13	04	RUS	RDL	F1B	50	200	Ident in F1A. Permitted by RR 5.154
21125.0	1440	13	04	G		F3N	25	20KOE	FMCW radar, RAF Akrotiri, Cyprus
21130.0	0911	29	04	G		F3N	50	20KOE	FMCW radar, RAF Akrotiri, Cyprus
21420.0	0827	29	04	G		F3N	50	20KOE	FMCW radar, RAF Akrotiri, Cyprus

RSK; Kamweti, 5Z4BV

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH/ BW	DETAILS
7055	vt	occ.	04			J3E-U		2k7	Kiswahili/ vernacular QSO
7075	vt	30	04	KEN		J3E-L		2k7	Vernacular QSO
7085	1920	29	04			FMOP	40 sps	10k	OTHR
7089.1	vt	nr.dly	04	KEN		J3E-U		2k7	Kiswahili/ vernacular QSO
7100	1308	17	04			J3E-L		2k7	French/vernacular msg net in central/eastern Africa
7110	vt	dly	04	SOM	Warsan Radio	H3E		2k9	Commercial broadcast station; Warsan Radio
7120	vt	dly	04	SOM	Warsan Radio	H3E		2k9	Commercial broadcast station; Warsan Radio
7140	vt	dly	04	ERI	VOBM 1	A3E		6kE	Commercial broadcast station; Voice of the Broad Masses of Eritrea 1
7150	vt	nr.dly	04	KEN	?	MFSK	125	2000	2G ALE
7150	0740	29	04	CHN	?	FMOP	50 sps	10k	Chinese OTH radar "foghorn"
7185	vt	26	04		?	J3E-U		2k7	Kiswahili/ vernacular QSO
14280	vt	23	04	RUS	?	FMOP	40 sps	20k	Russian Kontayner
14333	vt	26	04	CHN	?	FMOP	50 sps	10k	Chinese OTH radar "foghorn" burst

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
7 MHz	1700-0700	*	4	RUS		RADAR	40sps	13k0E	(WebSDR 29d) Kontainer, *) Days: 1. 2. 18. 24. 26.
7 MHz	0600-1800	*	4	RUS		RADAR	10sps	10k0E	*) Days: 1. 15. 18. 22. 24. 27. 28.
7 MHz	1400-1820	*	4	CHN		RADAR	50/67sps	10k0E	*) Days: 1. 2. 9. 15. - 18. 22. 'foghorn'
7 MHz	1630-1805	*	4	CHN		RADAR	10sps	160kE	*) Days: 12. 28. 30.
7000.0	0515-1810	*	4			NON			*) Days: 8. 9. 10.

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
7012.0	0845-1234	*	4	RUS		J7D	120	2k60E	*) Days: 16. 27. 30.
7016.0	h24	*	4	RUS		F1B		250H	*) Days: 7. 14. 15. 16. spurious on + & - c. 35 kHz
7018.0	1200-1340	3 6	4	RUS		J7D	120	2k60E	Ship on Baltic Sea
7019.0	0730-1800	02	4	RUS	CIK7	F1B/A		200H	
7020.0	0930	13	4	RUS		F1B		250H	
7022.0	0745-1000	12 21	4	RUS		J7D	120	2k60E	
7023.0	1620	27	4	RUS		J7D	120	2k60E	
7024.0	1210-1255	09	4	RUS		F1B		250H	
7026.0	1100-1130	09	4	RUS		J7D	120	2k60E	
7031.0	0430-1600	*	4	RUS		J3E-u		3k0E	*) Days: 16. - 20. see 7056 & 7126 kHz, brum & Russian vox
7035.0	0645-0905	*	4	RUS		J7D	120	2k60E	*) Days: 12. 18. 23.
7039.0	0400-1900	dly	4	RUS	C	A1A		20H	Beacon
7039.2	1330-1815	*	4	RUS	F	A1A		20H	Beacon, *) Days: 1. 3. 8. 9. 12. 13.
7039.3	1415-1430	30	4	RUS	K	A1A		20H	Beacon
7039.4	1330-1830	*	4	RUS	M	A1A		20H	Beacon, *) Days: 3. 8. 9. 13. 28. 30.
7049.0	1010	07	4	RUS		J7D	120	2k60E	
7056.0	0600-1600	*	4	RUS		J3E-u		3k0E	*) Days: 1. - 5. 21. - 25. see 7031 & 7126 kHz, brum & Russian vox
7057.5	0500-1600	dly	4	RUS	VKQL etc	A1A	20	20H	5F
7061.0	1130-1215	02	4	RUS		J7D	120	2k60E	
7065.0	1445	21	4	RUS		J7D	120	2k60E	
7080.0	1700-1830	*	4	RUS		F1B		200H	*) Days: 2. 4. 26. 28.
7087.0	0530-0815	23	4	RUS	JLSB	A1A		20H	5F, 5BL
7095.0	1300-1315	12 23	4	RUS		F1B		500H	
7096.0	0525-1046	28 30	4	RUS		J7D	120	2k60E	
7099.0	0400-1830	*	4	RUS	CM5X etc	A1A	17	20H	*) Days: 2. 13. 14. 22. - 30. 5BL, Z-codes
7104.0	0525-1530	*	4	RUS		F1B		500H	*) Days: 12. 14. 15. 16.
7111.0	0640-0810	08 15	4	BLR		F1B		250H	
7112.0	1535-1700	27	4	RUS		F1B		250H	
7112.0	1015-1130	27	4	RUS		J7D	120	2k60E	QSY from 7012 kHz

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
7114.0	0445-1815	*	4	RUS		F1B		500H	*) Days: 4. 6. - 12. 14. 15. 16.
7116.36	0720-0730	25	4	RUS		A1A	20	20H	5F
7122.0	0650-0930	08 13	4	RUS		F1B		250H	
7126.0	0430-1600	*	4	RUS		J3E-u		3k0E	*) Days: 11. - 15. see 7031 & 7056 kHz, brum & Russian vox
7134.0	1530-1705	*	4	RUS		F1B		200H	*) Days: 1. 8. 12. 13. 14.
7137.0	0445-1800	*	4	RUS		F1B		200H	*) Days: 1. 4. 12.
7138.0	1000-1012	06	4	RUS		F1B		200H	
7140.0	0900-0945	06	4	RUS		J7D	120	2k60E	
7140.0	0350-0600	dly	4	ERI	VoBM	A3E		9k0	
7140.0	1430-1835	dly	4	ERI	VoBM	A3E		9k0	
7142.0	1315-1330	05	4	RUS		F1B		250H	
7157.0	0515	14	4	RUS	TAGK	A1A		20H	Calls OMKP
7158.0	1200-1415	08 13	4	RUS	VB	A1A		20H	Beacon?
7172.0	0625-1800	29	4	RUS		A1A	10	20H	5BL
7180.0	0350-0600	*	4	ERI		A3E		9k0	*) Days: 12. - 30.
7180.0	1430-1835	*	4	ERI		A3E		9k0	*) Days: 12. - 30.
7186.0	0710-0730	28	4	RUS		J7D	120	2k60E	
7196.0	0630-1125	*	4	RUS		A1A	20	20H	*) Days: 10. 12. 27. 5BL
7198.0	0500-1630	22 29	4	RUS		J7D	120	2k60E	Ship on Baltic Sea
10 MHz	1330-1500	14 21	4	RUS		RADAR	40sps	13k0E	(WebSDR 5d) Kontainer
14 MHz	0700-1645	*	4	RUS		RADAR	40sps	13k0E	*) Days: 20. 26. 28. (WebSDR 6d) Kontainer
14 MHz	0400-1530	*	4	CHN		RADAR	50/67sps	10k0E	*) Days: 1. - 7. 14. 16. 20. 21. 23. - 30. 'foghorn'
14 MHz	0500-0700	*	4	CHN		RADAR	50sps	10k0E	*) Days: 5. 6. 14.
14 MHz	0530-0545	29	4	RUS		RADAR	10sps	10k0E	
14 MHz	0830-1220	09 28	4	CHN		RADAR	10sps	160k0	
14000.0	1400-1500	*	4	CHN	CRI	A3E		9k0	*) Days: 1. - 13. 30. intermod. 13710 & 13855 kHz
14008.0	1355	1	4	RUS		F1B		250H	
14210.0	0430-1230	dly	4			RADAR	10sps	5k0E	

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
14221.0	0400-0600	dly	4	KAZ		F1B		200H	
14253.0	0600-0810	*	4	RUS		F1B		250H	*) Days: 5. 19. 26. (ERP over 400W)
14272.0	0915-0920	07	4	RUS		J7D	120	2k60E	(ERP over 400W)
14302.0	0710	07	4	RUS		J7D	120	2k60E	(ERP over 400W)
18 MHz	0915-1200	*	4	CYP		RADAR	25/50sps	20k0	*) Days: 5. 24. 28. 29. (WebSDR 3d)
21 MHz	0945-1000	04	4	CYP		RADAR	25/50sps	20k0	*) Days: 10. 12. 23. 26. (WebSDR 6d)
21438.0	0830-1000	*	4	RUS	RCV	A1A	20	20H	*) Days: 1. 19. 22. 24. 26. 28.

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	Bd / SPS	SH BW	DETAILS
6996	1746	18	04	RUS		RADAR	40	12K0E	OTHR Contayner
7000	1754 vt*	08 vd*	04			NON			Carrier. Long-lasting
7006	1758	02	04	CHN		RADAR	66,7	10K0E	Radar bursts. "Foghorn"
7010	1757	02	04	CHN		RADAR	66,7	10K0E	Radar bursts. "Foghorn"
7016	1445	07	04	RUS		F1B	50	250H	*Also on 14 & 15/04
7023	1706	27	04			J7D			CIS-12. Idling
7027	1914	14	04	CHN		RADAR	66	10K0E	Short bursts. "Foghorn"
7043	1754	27	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
7051	1909	15	04	RUS		F1B	50	250H	Drifting
7055	1630	02	04			J3E-U			Speech. UKR/RUS "radiowar". Often
7058	1837 vt*	01 vd*	04	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 28/04
7060	0456	29	04			J3E-L			UKR/RUS "radiowar"
7065	1904	16	04	RUS		RADAR	40	12K0E	OTHR Contayner.
7074.8	1804	02	04			A1N			Continuous dashes or 16 dashes loop. Often
7075	0600	01	04			A1N			Continuous dashes or 16 dashes loop. Often
7080	1851	01	04	RUS		F1B	50	200H	
7088	2005	08	04	CHN		RADAR	66	10K0E	Short bursts. "Foghorn"
7092	2014	01	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
7095	1920	09	04	RUS		RADAR	40	12K0E	OTHR Contayner
7097	2004	09	04	RUS		RADAR	40	12K0E	OTHR Contayner
7097	1735	27	04	CHN		RADAR	66,7	10K0E	Radar bursts. "Foghorn"
7098	1732	16	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
7100	1806	02	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
7109	1927	10	04	RUS		RADAR	40	12K0E	OTHR Contayner
7111	2111 vt*	05 vd*	04	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 18/04
7111 LSB	1840 vt*	18 vd*	04			G7D		2K50E	PRC-30. *Also on 28 & 29/04
7114	1613	28	04	RUS		J7D	120	2K70E	CIS-12
7114	1855	28	04	RUS		F1B	50	200H	
7118	1843	01	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
7122	1750	27	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
7126	1948	08	04	CHN		RADAR	4,7	10K0E	Short bursts. "Foghorn"

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	Bd / SPS	SH BW	DETAILS
7126	1945	21	04	RUS		RADAR	40	12K0E	OTHR Contayner
7126.2	1550	12	04			XXX		ca. 2K80E	Broken system. Often around 7126.5 kHz CF
7126.8	0604	14	04			XXX		ca. 1K0E	Broken system. Often around 7126.5 kHz CF
7133	1937	06	04	RUS		RADAR	40	12K0E	OTHR Contayner
7137	1753 vt*	02 vd*	04	RUS		F1B	50	200H	*Also on 05, 11 and 15/04
7140.02	1632	02	04	ERI		AM			BC. VoBM 1. Daily
7145	2131	22	04	RUS		RADAR	40	12K0E	OTHR Contayner
7148	1702	28	04	CHN		RADAR	40	12K0E	OTHR Contayner
7150	1903	15	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
7151	1700	26	04	RUS		RADAR	40	12K0E	OTHR Contayner
7159	2112	05	04			G7D		2K60E	LINK11 CLEW SSB
7161	1954	08	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
7168	1913	25	04	RUS		RADAR	40	12K0E	OTHR Contayner
7171	1911	01	04	RUS		RADAR	40	12K0R	OTHR Contayner
7172	1714	18	04	RUS		RADAR	40	12K0E	OTHR Contayner
7174	1953	01	04	RUS		RADAR	40	12K0E	OTHR Contayner
7175	1944	02	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
7178	0558	01	04	RUS		RADAR	40	12K0E	OTHR Contayner. Long-lasting
7178	1945	02	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
7179	1703	27	04			J7D	120	2K60E	CIS-12
7180	1659	22	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
7180.02	1727	12	04	ERI		AM			BC. "VoBM2". Often
7186	1752	02	04	RUS		RADAR	40	12K0E	OTHR Contayner
13957	0850	13	04	CHN		RADAR	10	160K0E	Wideband OTHR
14000	1406	01	04			AM			BC. Intermodulation
14006	0801	08	04			J7D	120	2K70E	CIS-12
14007.9	0839	15	04	RUS		NON			Carrier. From usual FSK sys.
14008	0902	01	04			F1B	50	250H	Often
14010	0437	29	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14041	0551	28	04	RUS		RADAR	40	12K0E	OTHR Contayner
14113.5	1456	30	04			F1B	600	600H	DPRK-FSK 600 ARQ
14046	0742	20	04			J7D		2K70E	CIS-12. Mode Idle
14046.5	0706	06	04			J7D		2K70E	CIS-12, idling
14050	0553	20	04	RUS		RADAR	40	12K0E	OTHR Contayner
14052	0719	19	04			J7D		2K70E	CIS-12 Submode Idle
14055	1023	12	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14072	0900	06	04			XXX		CA2K70E	
14090.9	0734	08	04			W7D		2K80E	OFDM. CIS-60
14091	1205	07	04	RUS		RADAR	40	12K0E	OTHR Contayner
14105	0858	01	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14106	1245	02	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14107	0800	17	04	CHN		RADAR	50	10K0E	OTHR.
14108	1315	22	04	CHN		RADAR		10K0E	Short bursts.
14110	0907	13	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14111	0903	13	04	CHN		RADAR	66,7	10K0E	Radar bursts. "Foghorn"
14111	1330	22	04	CHN		RADAR	41,7	10K0E	Short bursts. "Foghorn"
14113.5	0733	07	04			F1B	600	600H	DPRK-FSK 600 ARQ
14114	0904	13	04	CHN		RADAR	66,7	10K0E	Radar bursts. "Foghorn"
14117	0904	08	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14117	1039	12	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	Bd / SPS	SH BW	DETAILS
14132	0720	02	04			RADAR	20	10K0E	OTHR
14134	0618	23	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14137	0756	20	04			J7D		2K70E	CIS-12. Idling
14138	0838	12	04			F1B	75	250H	
14141	0859	01	04	CHN		RADAR	66,7 50	10K0E	Short bursts. "Foghorn". 66.7 & 50 sps alternating
14141	0843	08	04	RUS		RADAR	40	12K0E	OTHR Contayner
14142	1506	23	04	RUS		RADAR	40	12K0E	OTHR Contayner
14143	1300	22	04	RUS		RADAR	40	12K0E	OTHR Contayner
14146	0736	07	04	RUS		RADAR	40	12K0E	OTHR Contayner
14148	1453	26	04	RUS		RADAR	40	12K0E	OTHR Contayner
14153	0901	21	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14155	0902	21	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14156	0609	28	04	CHN		RADAR	10	160K0E	Wideband OTHR
14158	1411	28	04	RUS		RADAR	40	12K0E	OTHR Contayner
14160	0651 vt*	08 vd*		RUS		F1B	50	250H	*Also on 16 & 22/04
14162	0612	28	04	CHN		RADAR	10	160K0E	Wideband OTHR
14165	1314	22	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14166	1616	27	04	RUS		RADAR	40	12K0E	OTHR Contayner
14167	1149	30	04	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14171	0912 vt*	04 vd*	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn". *Also on 05/04
14171	0736	19	04	CHN		RADAR	50	10K0E	OTHR
14180	0926	05	04	CHN		RADAR	50	10K0E	Short burts. "Foghorn"
14180	0855	26	04	RUS		RADAR	40	12K0E	OTHR Contayner.
14182	0852	07	04	CHN		RADAR	83,3	10K0E	Short bursts. "Foghorn"
14182	0915 vt*	09 vd*	04	CHN		RADAR	10	160K0E	Wideband OTHR. *Also on 12/04
14191	1159	26	04	RUS		RADAR	40	12K0E	OTHR Contayner
14192	0751	18	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14198.33	0634	27	04			F1B	600	600H	DPRK-FSK 600 ARQ.
14199	0712	26	04	RUS		RADAR	40	12K0E	OTHR Contayner
14200	1429 vt*	12 vd*	04	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 15//04
14200	0833	13	04	CHN		RADAR	66,78	10K0E	Short bursts. "Foghorn"
14210	0917	05	04			RADAR		CA3K50E	SuperDARN. (Super Dual Auroral Radar Network). Almost daily
14212	1207	22	04		175	J3E-U			Number st "S06s" aka "Russian lady". Female voice. Russian language.
14213.5	1212	22	04			XXX		200H	Digital signal during "S06s" TX. Observed several times during "S06s" TXs. Possibly PACTOR
14218	0744	16	04	RUS		RADAR	40	12K0E	OTHR Contayner
14221	0608	01	04			F1B	50	200H	
14225	1026	09	04	CHN		RADAR	10	160K0E	Wideband OTHR. Often
14227	0902	04	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14228	0940	09	04			J7D		2K70E	CIS-12Submode Idle
14232	1320	22	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14238	0939	17	04	CHN		RADAR	10	160K0E	Wideband OTHR
14239	0808	30	04	CHN		RADAR	10	160K0E	Wideband OTHR
14241	0757	17	04	CHN		RADAR	10	160K0E	Wideband OTHR

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	Bd / SPS	SH BW	DETAILS
14244	0853	01	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14251	1310	22	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14253	1352	02	04			F1B		250H	Often
14254	0842	16	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14255	1402	09	04			J7D	120	2K7E	CIS-12
14255	0817	21	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14257	0836	02	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14260	0800	22	04		257	J3E-U			Numbers station (E17z aka "English lady"). Female voice. English language.
14260	0637	23	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn".
14261	0758	21	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14262	0841	03	04	CHN		RADAR	50	10KE	Short bursts. "Foghorn"
14263	0859	04	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14267	0847	12	04			RADAR	50	10K0E	OTHR
14268	0740	18	04			RADAR	50	10K0E	OTHR
14272	0915	07	04			J7D		2K70E	CIS-12. Idling
14273	0829	13	04	CHN		RADAR	10	160K0E	Wideband OTHR
14274	0654	20	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14281	0556	14	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14282	1116	10	04	CHN		RADAR	41,7	10K0E	Short bursts. "Foghorn"
14283	0748	09	04	CHN		RADAR	61,7	10K0E	Short bursts. "Foghorn"
14283	1145	27	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14285	0924	05	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14288	1239	02	04	CHN		RADAR	41,7	10K0E	Short bursts. "Foghorn"
14288	0600	27	04	CHN		RADAR	10	40K0E	OTHR
14288	0630	27	04	CHN		RADAR	50	10K0E	OTHR
14290	0732	16	04			RADAR	20	10K0E	OTHR sweeps. BD = 90 sec. BRI = 9 min
14290	0848	16	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14292	0852 vt*	01 vd*	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn". *Also on 03 & 30/04
14292	0534	29	04	CHN		RADAR	20	10K0E	OTHR. TX = 90 sec. BRI = 9 min
14294	0643 vt*	24 vd*	04	CHN		RADAR	20	10K0E	OTHR sweeps. BD = 1.5 min. BRI = 9 min. *Also on 25, 26, 27, 28/04. Long-lasting: all day long
14297	0850	02	04	CHN		RADAR	50	10K0E	Short bursts. Foghorn
14297	0558	14	04			RADAR	20	10K0E	OTHR sweeps. BD = 1.5 minute. BRI = 9 min.
14297	0842	20	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14297	0623	23	04	CHN		RADAR	20	10K0E	OTHR sweeps. BD = 1.5 minute. BRI = 9 min.
14297	1257	23	04	CHN		RADAR	41,7	10K0E	Short bursts. "Foghorn"
14300	1328	22	04			RADAR	41,7	10K0E	Short bursts. "Foghorn"
14301.9	0747 vt*	06 vd*	04			W7D		2K80E	OFDM. CIS-60. *Also on 07, 13, 14/04
14302	0909	22	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14303	0811	14	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14304	0758	17	04	CHN		RADAR	10	160K0E	Wideband OTHR
14306	0833	21	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14306	759	30	04	RUS		RADAR	40	12K0E	OTHR Contayner
14308	0910	04	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14312	0855	01	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	Bd / SPS	SH BW	DETAILS
14313	0706	14	04	CHN		RADAR	62,4	10K0E	Short bursts. "Foghorn"
14314	0619	26	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14315	0756	26	04	CHN		RADAR	50	10K0E	OTHR
14315	0641	24	04	CHN		RADAR	66,7	10	Short bursts. "Foghorn"
14317	1144	07	04	RUS		RADAR	40	12K0E	OTHR Contayner
14318	0737	07	04	RUS		RADAR	40	12K0E	OTHR Contayner.
14321	0839	08	04	CHN		RADAR	41,6	10K0E	Short bursts. "Foghorn"
14322	0830	28	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14324	0852	11	04	CHN		RADAR	10	160K0E	Wideband OTHR
14325	0857 vt*	04 vd*	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn". Also on 29/04
14325	1118	07	04	RUS		RADAR	40	12K0E	OTHR Contayner
14325	0906	21	04	CHN		RADAR	62,5	10K0E	Short bursts. "Foghorn"
14328	0951	25	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14333	0845 vt	21 vd	04			XXX	2		2 dots per second. Long-lasting
14339	0806	02	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14341	0730	06	04	CHN		RADAR	66,7	10K0E	Short brusts. "Foghorn"
14342	0857	16	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14343	1251	03	04	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14345	0926	21	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14346	0916	08	04	CHN		RADAR	50	10K0E	Radar bursts. "Foghorn"
14354	0831	28	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
14358	0602	28	04	CHN		RADAR	10	160K0E	Wideband OTHR
14361	1245	23	04	RUS		RADAR	40	12K0E	OTHR Contayner. Splatter to 14345 kHz
14365	1524	12	04	GCA		RADAR	50	20K0E	OTHR Pluto. Splatter to 14346 kHz
14370	1255	06	04	GCA		RADAR	50	20K0E	OTHR Pluto. Splatter to 14335 kHz
18063	1116	30	04	RUS		RADAR	40	12K0E	OTHR Contayner
18065	0749	23	04	GCA		RADAR	12,5	40K0E	OTHR Pluto
18066	0834	28	04	CHN		RADAR	20	10K0E	OTHR sweeps. BD = 90 sec. BRI = 9 min. Long-lasting
18070	1446	27	04			J3E-U			UI people talikg. Male voices. UI lang.
18070	0928	05	04	GCA		RADAR	25	20K0E	OTHR Pluto. QRT: 0928 UTC
18076	0938	25	04	CHN		RADAR	42,6	10K0E	Short bursts. "Foghorn"
18080	0756	02	04			AM			BC. "Sound of Hope"
18090	0857	25	04	GCA		RADAR	50	20K0E	OTHR Pluto
18137	0852	28	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
21025	0941	22	04			J3E-U			UI people talking. Male voices. UI lang.
21060	1225 vt	02 vd	04			J3E-L			UI people talking. Male voices. UI lang. Repeating (singing?) the same sentence
21105	1132	30	04	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21136	0842	24	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
21196	0953	24	04	CHN		RADAR	66,7	10K0E	Short bursts. "Foghorn"
21210	0829	24	04	GCA		RADAR	25	20K0E	OTHR Pluto
21270	0935	01	04	GCA		RADAR	25	20K0E	OTHR Pluto
21275	0917	21	04	CHN		RADAR	41,7	10K0E	Short bursts. "Foghorn"
21310	0955	01	04	GCA		RADAR	25	20K0E	OTHR Pluto

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	Bd / SPS	SH BW	DETAILS
21438	0943 vt*	01 vd*	04	RUS	RCV	CW	19		"RCV" QTC. *Also on 13 & 24/04

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
3510.0 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			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 JA)
7074.995	1623	28	04			A1A			CW; sometimes only dashes often
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	41 sps	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 daily
7142.0	1333	05	04			F1B	50	250H	somtimes F1A FSK-CW; often
7159.0 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 carrier at 7184 kHz
7198.0	0739	22	04			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK, pilottone; with carrier at 7196 kHz
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
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

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
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		RCV	A1A		10H	TDoA: Area of Sevastopol daily

VERON; Ruud, PG1R; Credits to observers: Dick PA0GRU, Joeke PA0VDV, Kees PA2CHM, Arie PA3CNK, Rene PA3EQO

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3548.0	1940	19	04			F1B			Revs / UiPtr
3548.0	1954	19	04			F1A			XXX followed by F1B Revs / UiPtr
3597.0	1905	12	04			F1B			UiPtr
3798.0	1840	20	04	RUS	RCV	A1A			RIC87 de RCV QTC 140 59 20 1056 140 Nawip 031
3798.0	1904	20	04	RUS	RCV	A1A			RIC87 de RCV QTC 218 19 20.. 218 Prip Noworossijsk
5363.6	1530	27	04	DNK		G1D	600	2K6E	CF / STANAG-4285 / S8/ Primary user , but very harmful! / Allmost daily for many hours.
7050.0	1147	11	04	UKR/ RUS		J3E-L		2K7E	Slogans loop / S7
7055.0	1409	11	04	UKR/ RUS		J3E-L		2K7E	Slogans loop / S7
7055.0	1655	17	04	UKR/ RUS		J3E-L		2K7E	Music & slogans / 2TX same freq.
7140.0	0936	24	04	BIH		J3E-L			E7 call endless audio tape
14008.0	1000	01	04			F1B			Carrier / Revs / UiPtr also 19/4 1017 UTC
14008.0	0850	18	04			F1B			
14082.0	1157	20	04			A1A	4 sps		Continuous dits
14140.0	0948	18	04			F1B		250	UiPtr
14160.0	0849	08	04	RUS		F1B		250	UiPtr / nr Moscow TDOA
14169.0	0735	28	04	RUS		F1B		200	TDOA 53 N 48 E
14305.5	1544	20	04			F1B			UiPtr / Revs
14360.0	1248	23	04	RUS		Radar			OTHR TDOA 51 N 49 E Samara
18115.5	1023	08	04			F1B			UiPtr / Revs
21434.5	1540	20	04			F1B			UiPtr / Revs

Many thanks to all our valued helpers.

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