



IARU Monitoring System Region 1

Monthly Newsletter 3 - March 2021

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News and Info's

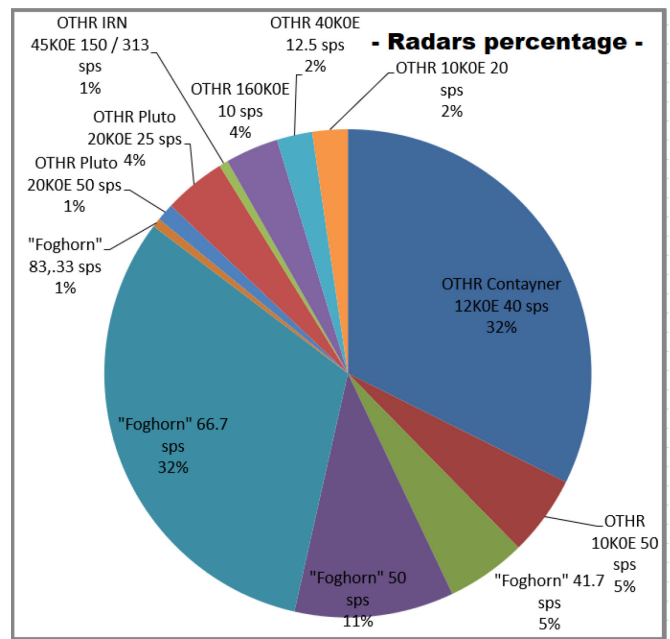
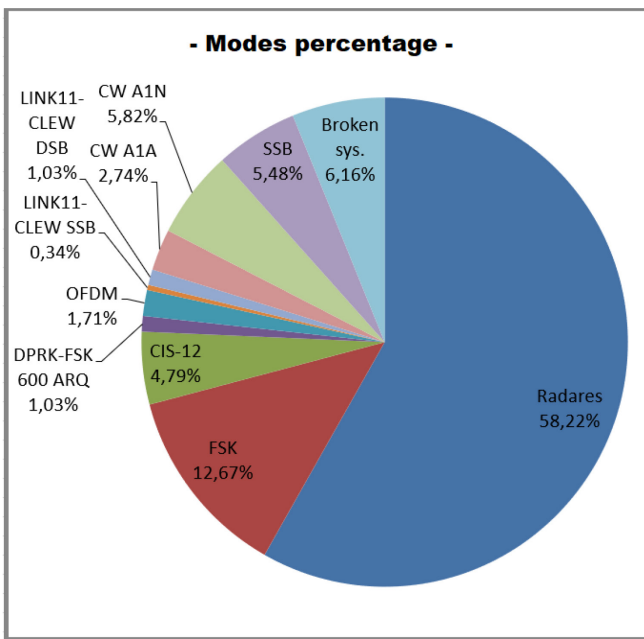
March 2021 was very similar to the previous months. Dominant were the daily ubiquitous OTH radars (about 60% of all observations), one cannot even count them anymore. Presumably there are only a few stations transmitting on often changing frequencies. In contrast to the past, they are more and more burst systems which usually transmit for only a few seconds, then the frequency is changed. Only the OTHR "Contayner" and "Pluto" (UK base Cyprus) each transmit on a frequency for a longer period of time.

Two CW (A1A) emissions were conspicuous. On 7039.6 at always the same times (h +02, 22, 42) for about one minute each a sequence of 10x three numbers plus the letter V, for example "121V 121 121V" or any other numbers from 114 to

139 was sent. It is suspected that these could be voltage values, i.e. "129V" could correspond to 12.9 volts? Such emissions has already been observed in 2020.

Around 7074.8 kHz, groups of continuous dashes or groups of dashes were frequently observed in CW. Purpose and origin are unknown so far. TDoA location was impossible due to permanently active FT-8 stations.

Gaspar, EA6AMM has made two nice graphs based on his own observations also for March, which illustrate the situation well. (Percentage of different modes and percentage of different types of OTHR).



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, DK1HKU Horst, DL1KGT Gerhard, DL1HBT Thomas, DL3RTL Daniel, DB3TA Alex									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
1925.0	2129	04	03	I	IPL	USB			Livorno Radio. weather reports - daily
3500.5	2111	26	03	CIS		A3E			CIS pirates - unstable carriers
3510.0	2010	12	03	CIS		A3E			CIS pirates - unstable carriers
3510.0 RF	1700	dly	03	RUS		chirps		3k	mysterious chirps - 60 km east of Bryansk - shared band
3532.0 CF	1950	31	03	F		PSK4	75	6k	LINK11-CLEW - on both sidebands (6000 Hz wide) - area of Brest - legal!
3581.8	ady	dly	03	TUR		PSK8A	2400	2k4	Stanag-4285 - 600 bps long - Ankara - shared band!
3585.0	ady	dly	03	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm. IOC 576 - daily. all day - legal!
3622.5	ady	dly	03	J	JMH	F1C		800	Tokyo Meteo - 120 rpm - IOC 576 - daily. all day - legal!
3756.8 RF	1800	dly	03	RUS		USB			RUS MIL - channel marker - 4 tones - Tuapse - East Black Sea (nw of Sochi) - night QRG
5361.8 RF	0944	01	03	DNK	OUA15	PSK8A	2400	2k4	Stanag-4285 - assigned to Danish Navy - Frederikshavn - primary user!
7000.0	1751	07	03	INS		LSB USB			Indonesian pirates - singing and playing music - daily
7003.0	2056	16	03	RUS		PSK2A	120	2k6	CIS-12 - submode idle - Sevastopol
7003.0	1938	08	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 6997 - 7009 kHz
7005.0	1740	21	03	INS		LSB USB			Indonesian pirates - daily
7005.0	1717	27	03	CHN		FMOP	66.4	10k	Chinese OTH radar - 7000 - 7010 kHz - 3.8 sec bursts
7009.0	1733	15	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7010.0	1605	21	03	CHN		FMOP	10	160k	Chinese wideband OTHR - 6930 - 7090 kHz
7015.0	1950	17	03	RUS		PSK2A	120	2k6	CIS-12 - submode idle
7017.0	1918	11	03	CHN		FMOP	49.3	10k	Chinese OTH radar - 7012 - 7022 kHz - 5.1 sec bursts
7025.0	1822	04	03	INS		LSB USB			Indonesian pirates - daily
7029.0	1900	05	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7035.0	2214	26	03	CHN		FMOP	10	160k	Chinese wideband OTHR - 6955 - 7115 kHz
7035.0	1703	28	03	CHN		FMOP	67.3	10k	Chinese OTH radar - 7030 - 7040 kHz - 3.8 sec bursts - long lasting
7039.0	1400	29	03	RUS	C	A1A			cluster beacon "C" - Moscow - "RIW"
7039.6	vt	vd	03			A1A			unknown
7040.0	1851	12	03	INS		LSB USB			Indonesian pirates daily
7042.0	2017	27	03	CHN		FMOP	41.1	10k	Chinese OTH radar - 7037 - 7047 kHz - 6.1 sec bursts
7049.0	2036	11	03	CHN		FMOP	50	10k	OTHR 5.1s bursts
7050.0	2041	24	03	CHN		FMOP	48.3	10k	Chinese OTH radar - 7045 - 7055 kHz - 5.1 sec bursts
7050.0	0750	14	03	UKR		J3E-L		3k	propaganda. music. voices
7050.0	1855	17	03	CHN		FMOP	66.67	10k	OTHR 7.2s bursts
7050.0	2240	22	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7054.0	1730	09	03	RUS		F1B	50	180	Vladivostok - often
7055.0	1844	31	03	CHN		FMOP	10	160k	Chinese wideband OTHR - 6975 - 7135 kHz
7055.0	vt	dly	03	UKR		LSB			music and Russian voices

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7058.0	1615	01	03	CHN		FMOP	10	160k	Chinese wideband OTHR - 6978 - 7138 kHz
7058.0	2116	04	03	CHN		FMOP	66.4	10	Chinese OTH radar - 7053 - 7063 kHz - 3.8 sec bursts
7058.0	1850	15	03	RUS		FMOP	40	12k	OTHR Contayner
7061.0	1930	10	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7055 - 7067 kHz
7062.0	1555	14	03	RUS		FMOP	40	12k	OTHR Contayner
7063.0	1732	15	03	RUS		FMOP	40	12k	OTHR Contayner
7066.0	1640	05	03	RUS		FMOP	40	12k	OTHR Contayner
7079.0	ady	07	03	RUS				2k8	CIS-12. long-lasting
7079.8	1705	07	03						umod. Carrier
7081.0	1635	07	03	RUS		PSK2A	120	2k6	CIS-12 - Sevastopol
7085.0	1812	17	03	CHN		FMOP	50	10k	OTHR 5.1s bursts
7087.0	1910	05	03	RUS		FMOP	40	12k	OTHR Contayner
7088.0	1920	05	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7082 - 7098 kHz
7091.9	1503	28	03					2k8	CIS-12
7092.0	1707	09	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7086 - 7098 kHz
7094.0	1805	19	03	CHN		FMOP	65.8	10k	Chinese OTH radar - 7089 - 7099 kHz - 3.8 sec bursts
7095.0	1706	25	03	CHN		FMOP	65.2	10k	Chinese OTH radar - 7090 - 7100 kHz - 3.8 sec bursts
7095.0	1654	01	03	CHN		FMOP	50.7	10k	Chinese OTH radar - 7090 - 7100 kHz - 5.1 sec bursts
7096.0	1641	15	03	CHN		FMOP	67.3	10k	Chinese OTH radar - 7091 - 7101 kHz - 3.8 sec bursts
7098.0	2115	08	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7101.0	2110	16	03	CHN		FMOP	50	10k	OTHR 5.1s bursts
7101.0	2024	30	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7103.0	1726	02	03	CHN		FMOP	67.9	10k	Chinese OTH radar - 7098 - 7108 kHz - 3.8 sec bursts
7103.0	1805	03	03	RUS		FMOP	40	12k	OTHR Contayner
7105.0	2045	18	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7099 - 7111 kHz
7106.0	2032	29	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7100 - 7112 kHz
7107.0	1600	21	03	CHN		FMOP	66.4	10k	Chinese OTH radar - 7102 - 7112 kHz - 3.8 sec bursts
7107.0	2245	12	03	RUS		FMOP	40	12k	OTHR Contayner
7108.0	2103	17	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7102 - 7114 kHz
7109.0	1719	31	03	CHN		FMOP	67.3	10k	Chinese OTH radar - 7104 - 7114 kHz - 7.6 sec bursts
7109.0	1756	17	03	RUS		FMOP	40	12k	OTHR Contayner
7111.0	1836	15	03	RUS		FMOP	40	12k	OTHR Contayner
7112.0	1700	02	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7113.0	2130	24	03	RUS		FMOP	40	12k	OTHR Contayner
7114.0	1904	19	03	RUS	RDL	F1B	50	200	ident on F1A "RDL" - St. Peterburg
7116.0	1643	14	03	RUS		FMOP	40	12k	OTHR Contayner
7117.0	1742	21	03	CHN		FMOP	10	160k	Chinese wideband OTHR - 7037 - 7197 kHz
7117.0	1705	03	03	RUS		FMOP	40	12k	OTHR Contayner

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7117.0	2042	08	03	CHN		FMOP	69.2	10k	Chinese OTH radar - 7112 - 7122 kHz - 3.8 sec bursts
7118.0	1937	12	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7112 - 7124 kHz
7120.0	1818	06	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7114 - 7126 kHz
7121.0	1919	25	03	CHN		FMOP	66.66	10k	Chinese OTH radar - 7116 - 7126 kHz - 3.8 sec bursts
7121.0	1715	07	03	RUS		FMOP	40	12k	OTHR Contayner
7122.0	1105	09	03	RUS	RDL	F1B	50	200 250	RUS navy - Severomorsk or Moscow - daily
7123.0	1752	12	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7117 - 7129 kHz
7125.0	1921	15	03	CHN		FMOP	49.5	10k	Chinese OTH radar - 7120 - 7130 kHz - 5.1 sec bursts
7126.0	1923	09	03	CHN		FMOP	64.9	10k	Chinese OTH radar - 7121 - 7131 kHz - 3.8 sec bursts
7126.0	0800	14	03			J3E-U		3k5	humming signal
7127.0	1640	05	03	RUS		FMOP	40	12k	OTHR Contayner
7130.0	2038	11	03	CHN		FMOP	41.67	10k	OTHR 6.12s bursts
7133.0	1835	23	03	CHN		FMOP	50.5	10k	Chinese OTH radar - 7128 - 7138 kHz - 5.1 sec bursts
7134.0	1930	dly	03	RUS		F1B	50	200	Vladivostok - daily
7140.0	1705	dly	03	ERI	VOBM	A3E/BC		9k	7140.021 kHz - voice of the broad masses - Eritrea
7141.0	2022	30	03	RUS		FMOP	40	12k	OTHR Contayner
7142.0	2118	01	03	CHN		FMOP	41.67	10k	OTHR 6.12s bursts
7143.0	2157	01	03	CHN		FMOP	41.3	10k	Chinese OTH radar - 7138 - 7148 kHz - 5.1 sec bursts
7146.0	0940	11	03	RUS		PSK2A	120	2k6	CIS-12 - Sevastopol
7147.0	1555	14	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7148.0	1540	14	03	CHN		FMOP	65.8	10k	Chinese OTH radar - 7143 - 7153 kHz - 3.8 sec bursts
7148.0	1841	21	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7142 - 7154 kHz
7149.0	2127	10	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7143 - 7155 kHz
7149.0	2116	01	03	RUS		FMOP	40	8k	OTH radar Contayner - w of Saransk - 7145 - 7153 kHz
7151.0	1706	10	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 7145 - 7157 kHz
7155.0	1518	13	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7156.0	1409	12	03	CHN		FMOP	69.2	10k	Chinese OTH radar - 7151 - 7161 kHz - 3.8 sec bursts
7159.0	1622	13	03					6k	Link-11
7159.0 CF	1707	14	03	F		PSK4	75	5850	LINK11-CLEW on DSB mode - ship - North Sea - 600 km w of Denmark
7160.0	2139	23	03	CHN		FMOP	41.1	10k	Chinese OTH radar - 7155 - 7165 kHz - 6.2 sec bursts
7163.0	1717	31	03	CHN		FMOP	66.66	10k	Chinese OTH radar - 7158 - 7168 kHz - 3.8 sec bursts - long lasting
7171.0	1940	15	03	CHN		FMOP	50	10k	OTHR 5.1s bursts
7174.0	1911	17	03	RUS		FMOP	40	12k	OTHR Contayner
7175.0	1854	17	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7176.0	1814	17	03	CHN		FMOP	66.67	10k	OTHR 7.2s bursts
7177.0	1838	23	03	CHN		FMOP	50.9	10k	Chinese OTH radar - 7172 - 7182 kHz - 5.1 sec bursts
7177.0	1715	15	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7180.0	1918	19	03	CHN		FMOP	64.9	10k	Chinese OTH radar - 7175 - 7185 kHz - 3.8 sec bursts
7180.0	1409	dly	03	ERI	VOBMM	A3E		9k	7180.021 kHz - Radio Eritrea
7184.0	1647	10	03	RUS		PSK2A	120	2k6	CIS-12 - Sevastopol
7185.0	2204	01	03	CHN		FMOP	50.7	10k	Chinese OTH radar - 7180 - 7190 kHz - 5.1 sec bursts
7185.7	1750	17	03					2k8	CIS-12
7186.0	1647	17	03	RUS		PSK2A	120	2k6	CIS-12 - submode idle - Severomorsk
7188.0	2122	30	03	RUS		FMOP	40	12k	OTHR Contayner
7189.0	2233	01	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
7190.0	1721	11	03	CHN		FMOP	49.3	10k	Chinese OTH radar - 7185 - 7195 kHz - 5.1 sec bursts
7190.0	1728	11	03	RUS		FMOP	40	8k	OTH radar Contayner - w of Saransk - 7186 - 7194 kHz
7191.0	1700	02	03	CHN		FMOP	50	10k	OTHR 5.1s bursts
7192.0	1708	02	03	CHN		FMOP	48.5	10k	Chinese OTH radar - 7187 - 7197 kHz - 5.1 sec bursts
7193.0	1710	15	03	RUS		FMOP	40	12k	OTHR Contayner
7195.0	1850	15	03	RUS		FMOP	40	12k	OTHR Contayner
7198.0	1123	02	03	RUS		PSK2A	120	2k6	CIS-12 - Moscow
10100.8	ady	dly	03	D	DDK9	F1B	50	450	German Weatherservice - legal!
10110.0	1610	01	03	MRC		USB			Moroccan fishery
10121.0	2039	26	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 10115 - 10127 kHz
10149.0 CF	2032	20	03	AUS		FMOP	6.9	11k	Australian OTH radar "JORN" - intro tone - 18 sec bursts
10150.0	1609	12	03	RUS		FMOP	40	8k	OTH radar Contayner - w of Saransk - 10146 - 10154 kHz
10152.0	2039	26	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 10146 - 10158 kHz
14000.0	2024	19	03	B		USB			Brazilian pirates - Rio with North Brazil
14000.0	1639	08	03	MRC		USB			Moroccan fishery
14027.0	0948	04	03	CHN		FMOP	50	10k	Chinese OTH radar - 14022 - 14032 kHz - long lasting
14108.0	1016	16	03	CHN		FMOP	65.8	10k	Chinese OTH radar - 14103 - 14113 kHz - 3.8 sec bursts
14115.0	0848	06	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
14122.0	1104	16	03	CHN		FMOP	48.6	10k	Chinese OTH radar - 14117 - 14127 kHz - 5.1 sec bursts
14138.0	1012	16	03	CHN		FMOP	68.2	10k	Chinese OTH radar - 14133 - 14143 kHz - 3.8 sec bursts
14162.0	1015	13	03	RUS		PSK2A	120	2k6	CIS-12
14170.0	1352	08	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 14164 - 14176 kHz
14180.0	1541	01	03	RUS		FMOP	40	12k	OTHR Contayner
14200.0	1024	16	03	CHN		FMOP	65.5	10k	Chinese OTH radar - 14195 - 14205 kHz - 3.8 sec bursts
14203.0	1055	20	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
14207.0	1121	23	03	CHN		FMOP	50.5	10k	Chinese OTH radar - 14202 - 14212 kHz - 5.0 sec bursts

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14224.0	0941	25	03	CHN		FMOP	10	160k	Chinese wideband OTHR - 14144 - 14304 kHz
14230.0	0947	25	03	CHN		FMOP	10		Chinese wideband OTHR - 14150 - 14310 kHz
14232.0	1148	29	03	CHN		FMOP	50.0	10k	Chinese OTH radar - 14227 - 14237 kHz - 5.1 sec bursts
14240.0	1315	31	03	RUS			50	250	
14240.0	0755	12	03					2k8	CIS-12
14253.0	1029	16	03	CHN		FMOP	65.5	10k	Chinese OTH radar - 14248 - 14258 kHz - 3.8 sec bursts
14253.0	1407	19	03	RUS		F1B	75	250	Moscow
14255.0	0933	01	03	CHN		FMOP	64.6	10k	Chinese OTH radar - 14250 - 14260 kHz - 3.8 sec bursts
14264.0	1139	20	03	CHN		FMOP	10	160k	Chinese wideband OTHR - 14184 - 14344 kHz
14265.0	1139	22	03	CHN		FMOP	50.3	10k	Chinese OTH radar - 14260 - 14270 kHz - 5.1 sec bursts
14270.0	1111	21	03	CHN		FMOP	49.5	10k	Chinese OTH radar - 14265 - 14275 kHz - 5.1 sec bursts
14278.0	1135	20	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
14280.0	1059	19	03	CHN		FMOP	48.6	10k	Chinese OTH radar - 14275 - 14285 kHz - 5.1 sec bursts
14280.0	1014	wednesday	03	UKR		A3E			female voice with encrypted msgs - figures - "SZRU" = Foreign Intelligence Service of Ukraine in Rivne
14325.0	1055	19	03	CHN		FMOP	50.5	10k	Chinese OTH radar - 14320 - 14330 kHz - 5.0 sec bursts
14329.0	0850	21	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
14330.0	0852	06	03	CHN		FMOP	66.67	10k	OTHR 3.8s bursts
18070.0	1342	19	03	CYP		FMCW	50	20k	OTHR Pluto Cyprus
18076.9	1520	20	03			A1A			continious transmission of CW dots
18090.0	0938	17	03	CYP		FMCW	50	20k	OTHR Pluto Cyprus
18107.0	0954	12	03	RUS	RDL	F1B	36/50	200	CIS-36-50 - Moscow - idle and traffic - often - Russian navy
18113.0	1358	13	03	RUS		FMOP	40	12k	OTH radar Contayner - w of Saransk - 18107 - 18119 kHz
21000.0	vd	vd	03	E		USB			Spanish fishery - like telephone - daily. various times - Canary Islands
21002.3	1417	22	03	MDG		LSB			unid pirates - 130 deg. from DL - NE of Madagascar
21178.0	1102	20	03	CHN		FMOP	41.67	10k	OTHR 6.12s bursts
21232.0	1429	15	03	FEa		LSB			Far East pirates
21280.0	0952	30	03	CHN		FMOP	12.5	40k	Chinese OTHR - 14300 - 14460 kHz
21350.0	0939	12	03	CYP		FMCW	50	20k	UK OTH radar Cyprus - 21340 - 21360 kHz
21365.0	1133	20	03	CYP		FMOP	50	20k	UK OTH radar Cyprus - 21355 - 21375 kHz
21438.0	1023	08	03	RUS	RCV	A1A			RCV - RUS Navy Sevastopol with QTCs RIP90 de RCV - daily active
21438.0	1055	13	03	RUS		A1A			CW Signal. RUS Navy Sevastopol
28860.0	1120	20	03	IRN		AMOP	150		
29600.0	0952	16	03	IRN		AMOP	313	40k	Iranian radar - 29580 - 29620 kHz

MRASZ; Laci, HA7PL									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3510.0	1831	18	03	RUS		???			chirp "AIR HORN, from near Smolensk"
3524.0	1856	18	03			RADAR			3520 - 3528 kHz
3531.0	1938	02	03			J3E-U			unidentified
3545.0	1609	10	03			F1B		200	
3546.0	1831	18	03			F1B		200	
3549.0	1757	18	03			PSK2A			AT3004D, CIS12?
3551.0	1858	02	03			A1A			dashes, deliberate disturbance
3556.0	1601	10	03			A1A			V string
3563.0	1712	09	03			PSK2A			AT3004D
3581.8	1735	09	03			PSK8A			Stanag 4825
3666.0	1720	09	03			A1A			v string, ECB8 II QLW QSA? QRK? QXS
3666.0	1725	09	03			A1A			long V string K
3744.0	1804	18	03			A1A			„VVV RMRV II de RM? QSA? QTC K“
3756.0	1719	09	03			PSK2A			AT3004D
7014.0	0828	17	03			F1B		250	
7018.0	1407	21	03			J3E-U			"hallo", unidentified
7021.0	1443	23	03			F1B		250	
7024.0	1503	23	03			F1B		250	
7046.0	1319	26	03			J3E-L			unidentified
7055.0	0952	05	03			J3E-L			curse
7055.0	0819	11	03			J3E-L			music + chaos, mention Putin
7055.0	1400	19	03			J3E-L			chaos
7055.0	1319	26	03			J3E-L			propaganda, russia = Nazi
7059.0	1658	26	03			RADAR			7050 – 7068 kHz
7074.0	1138	18	03			A1A			long time dashes
7077.0	1740	18	03			F1B		200	
7079.0	1321	26	03			???			500 Hz wide mode (?)
7108.0	1134	18	03			F1B		200	
7140.0	0753	11	03			F1B		250	
7144.0	1445	23	03			PSK2A			AT3004D
7146.0	0752	11	03			PSK2A			AT3004D
7181.0	1736	09	03			PSK2A			AT3004D
7183.0	1504	09	03			PSK2A			AT3004D, in LSB
7183.0	0956	10	03			PSK2A			AT3004D
7185.0	1739	18	03			PSK2A			AT3004D
7187.0	1713	11	03			RADAR			7180 – 7194 kHz
10150.0	1659	26	03			RADAR			10140 – 10150 kHz
14006.0	0750	24	03			F1B		250	
14012.0	0831	17	03			RADAR			14004 – 14020 kHz
14024.0	0838	04	03			RADAR			14018 – 14030 kHz
14135.0	1430	18	03			RADAR			14130 – 14140 kHz
14197.0	0946	02	03			F1B		300	
14250.0	1319	16	03			F1B		250	
14252.0	0927	02	03			RADAR			14246 – 14258 kHz

OeVSV; Christoph, OE1VMC; Credits to Monitors: OE3CHC, OE3JTB, OE1TKW									
kHz	UTC	DD	MM	ITU	IDENT	MODE	Bd / SPS	SH / BW	DETAILS
7055.0	1657	28	03			J3E-L		3K0	reported by OE1TKW during CQ WPX SSB 2021 Contest
7185.0	1625	10	03			J7D		2600	CIS12: S9+20dB, reported by OE3CHC and confirmed by OE3MHU and OE5DSP.
14008.0	1046	21	03			F1B		250	Reported by OE1TKW, Carrier very strong S9+40dB, strongest signal on the band. Next FSK message, ca. 60s duration, 2nd message at 1049UTC, carrier and message disappear 1049UTC.
21232.0	1200	15	03			J3E-L		3000	Reported by OE3JTB, Pirates on 15m amateur radio band from Indonesia? Antenna heading 100°.

PZK; Marek, SP3AMO + Miro, SP5GNI									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3523.4	2051	23	03		UI	FSK			S7
3722	0819	23	03	RUS		PSK		2k9	CIS-12 pilot 3723.3 S9 8:20 ended
3730.0	1705	9	03		UI	J3E-L			Pirat... music
3749.3	1710	9	03		UI	PSK			S 9+20 dB
3758.8	0730	25	03			UI		3K3	S9 +20dB
5363.5	vt	vd	03			PSK-8		2K9	STANAG-4285 Always present!
7000.0	0805	12	03		UI	J3E-U			
7034.4	0700	23	03		UI	NON			S 9 - 50 Hz
7047	0915	26	03	RUS		PSK		2K9	CIS-12 pilot 7048.3 S9, 12:30 still on
7055	0812	12	03			J3E-L		2K7	Russian-Ukrainian propaganda, also on 7050 and 7060!
7056	1230	5	03			J3E-U		3K5	Kind of hum
7061.0	0720	23	03			PSK		1K2	S 9 - 4 x 120 Hz
7061	0817	23	03	RUS		PSK		2K9	CIS-12 pilot 7062.3 S9+10dB, 9:40 still present
7085.7	1710	9	03			RADAR		14k0E	S 9 [7083,0 - 7097.0 kHz]
7108.0	2020	21	03		UI	RADAR		28K0E	S 9 +10 dB [7108.0 - 7136.0 kHz] sps 40 Hz
7114	0817	23	03	RUS		PSK		2K9	CIS-12 pilot 7115.3 S7
7116	1852	18	03			RADAR		20K0E	Very strong 9+20dB
7126	vt	vd	03			J3E-U		3K5	Kind of hum
7126.5	0730	12	03		UI	NON			S 7/8 - 50 Hz
7141.7	0713	11	03		UI	F1B	50	200	S 9 + 5 dB
7141.7	1600	23	03		UI	F1B		200	S 9 16.04 UTC QRT
7142	0827	11	03			F1B		250	S9
7144.2	1525	23	03		UI	PSK		1K0	S 9 + 10 dB 5x120Hz
7146	0826	11	03	RUS		PSK		2K9	CIS-12 pilot 7147.3 S9+
7146.2	0715	11	03		UI	PSK			S 9 - 50 Hz
7160	0734	25	03	RUS		PSK		2K9	CIS-12 pilot 7161.3 S7
7166	1340	17	03			RADAR		10K0E	Short bursts (also 7151)
7169	0817	12	03			F1B		200	S8
7169	1504	22	03			F1B		200	S9
7171	1733	18	03			RADAR		10K0E	Long burst S7
7183.7	1713	9	03		UI	FSK			S 9
7184	0930	10	03	RUS		PSK		2K9	CIS-12 pilot 7185.3 S9+
7186	1342	17	03	RUS		PSK		2K9	CIS-12 pilot 7187.3 S9
7186	0840	18	03	RUS		PSK		2K9	CIS-12 pilot 7187.3 S7
10117	0822	23	03	RUS		PSK		2K9	CIS-12 pilot 10118.3 S8
14108	1023	18	03			RADAR		10K0E	Long burst S7

PZK; Marek, SP3AMO + Miro, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14120	1003	2	03			RADAR		160KOE	
14125	1217	15	03			RADAR		10KOE	Short bursts S7
14147	0918	26	03			RADAR		10KOE	Short bursts S8
14150	1505	7	03			RADAR		10KOE	S9 continous
14160	0936	23	03			RADAR		8KOE	S6 continous
14162	0940	13	03			RADAR		20KOE	Continuous very strong S9 +20dB
14199.4	1315	14	03			PSK		250	3 pretty strong lines visible
14220	0821	25	03			RADAR		160KOE	Weak
14226	0955	16	03			F1B		250	S8
14240	0822	11	2			RADAR		10KOE	Short bursts
14242	0819	12	03	RUS		PSK		2K9	CIS-12 pilot 14243.3 S9+10
14253	0913	2	03			RADAR		10KOE	S7 continous
14273.8	0723	11	03		UI	NON			
14283	0800	11	03			RADAR		10KOE	S7 continous
14295	0907	12	03			RADAR		10KOE	Short bursts weak signal
14314	0953	15	03			RADAR		10KOE	Short bursts weak signal
14316	1021	18	03			RADAR		10KOE	Short bursts weak signal
14319	0819	25	03			RADAR		10KOE	Short bursts S7
14326	0823	12	03			RADAR		10KOE	S9, bursts 14326/14328
14327	0736	25	03	RUS		PSK		2K9	CIS-12 pilot 14238.3 S7
18078	1018	18	03			RADAR		10KOE	Very short bursts
18083.5	1017	18	03			RADAR		10KOE	Long burst S7
21000	1020	12	03			J3E-U		2K7	Conversation non-amateur in (most likely) Spanish S6-8
21145	0927	13	03			RADAR		10KOE	Short bursts S7
21174.3	0720	11	03		UI	NON			
21178	1054	20	03			RADAR		10KOE	Short bursts S7
21233.5	1014	18	03			RADAR		10KOE	Short burst very weak
21355	1150	21	03			RADAR		40KOE	S5-6
28860	0951	26	03			RADAR		100KOE	Strong, also on 28960

REF; Francis, F5MIU

kHz	UTC	DD	MM	ITU	IDENT	MODE	Bd/sps	Sh /Bw	DETAILS
7091	16h40	09	03			FMCW	50	22k	OTH Radar pulsed 20ms,S9+10
7125	17h01	08	03			FMCW	50	25k	OTH Radar pulsed 20ms,S9
7150	1717	25	03				40	20k	OTH Radar pulsed 25ms, S9+10
7188	1807	14	03			FMCW	50	20k	OTH Radar pulsed 20ms,S9+
7190	1803	15	03			FMCW	50	20k	OTH Radar pulsed 20ms,S9+10
7190	1810	17	03			FMCW	50	20k	OTH Radar pulsed 20ms,S9
10155	17h11	01	03			FMCW	50	20k	OTH Radar pulsed 25ms, S9+
14015	0847	17	03			FMCW	50	15k	OTH Radar pulsed 20ms,S8
14025	0930	24	03			FMCW	50	15k	OTH Radar pulsed 20ms,S9
14160	09h05	02	03			FMCW	10	160k	OTH Radar pulsed 100ms,S9
14253	09h13	02	03			FMCW	50	12k	OTH Radar pulsed 20ms,S8
21002	1716	19	03			USB		3k	S5 Fisherman ? motor noise on back-ground, Danish language ? end 17h18

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3510.0	vt	vd	03			J3E		2K7OE	USB 'The Air Horn'
3756.0	vt	vd	03			J3E		1K7OE	USB 'The Pip'

RSGB; Richard, G4DYA									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
5363.6	ady	07-31	03	DNK		G1D		2K40E	For info: Stanag 4285, Primary user.
7004.0	1754	27	03	CHN		F3N	66.7	10K0E	FMCW bursts
7008.0	2036	10	03			F1B		250	
7019.0	0937	30	03			J7D		2K70E	USB 7019.0 / CIS-12
7035.0	0852	12	03			J7D		2K70E	USB 7033.0 / CIS-12
7039.6	vt	vd	03			A1A			4-char msg sent ten times. No callsign. Every 20m at HH02, 22, 42.
7047.0	1606	25	03			J7D		2K70E	USB 7045.0 / CIS-12
7056.0	1810	23	03	RUS		P0N	40	14K0E	Container radar
7061.0	0850	23	03			J7D		2K70E	USB 7059.0 / CIS-12
7074.39	0841 0743	06 14	03			A1N			Continuous dashes or groups of dashes. ±10 Hz
7074.79	0803	25	03			A1N			Continuous dashes or groups of dashes. ±10 Hz
7074.87	0729	17	03			A1N			Continuous dashes or groups of dashes. ±10 Hz
7074.99	vt	vd	03			A1N			Continuous dashes or groups of dashes. ±10 Hz
7080.0	vt	vd	03			F1B		200	
7120.0	2029	24	03	RUS		P0N	40	14K0E	Container radar
7121.0	2015	21	03	RUS		P0N	40	14K0E	Container radar
7122.0	1109	09	03			F1B	50	200	
7127.0	1730	05	03	RUS		P0N	40	14K0E	Container radar
7140.020	0250- 0635.1 400- 1835	dly	03	ERI	VoBM1	A3E			BC. Approx times – varies daily
7144.0	1503	23	03	RUS		J7D		2K70E	USB 7142.0 / CIS-12. Kiwi TDoA: 55°N, 44°E (east of Moscow)
7146.0	0900	11	03			J7D		2K70E	USB 7144.0 / CIS-12
7148.0	2033	10	03	RUS		P0N	40	14K0E	Container radar
7150.0	1722	25	03	RUS		P0N	40	14K0E	Container radar
7159.0	0911 0856 1550	15 16 17	03			B7D B7D J7D		6K00E 2K40E	ISB / Link 11 CLEW USB / Link 11 CLEW
7176.0	0820	08	03			F1B		250	
7180.020	0250- 0635.1 400- 1835	01- 21	03	ERI	VoBM2	A3E			BC. Approx times – varies daily
7183.0	1751	24	03	RUS		P0N	40	14K0E	Container radar
7184.0	0900 0827	09 10	03			J7D		2K70E	USB 7182.0 / CIS-12
7185.65	0714 0924	17 18	03			R7D		3K30	USB 7184.0 / CIS-12
7192.0	1448	06	03	RUS		P0N	40	14K0E	Container radar
7196.0	0950 1453 0853	02 05 06	03					300HE	Approx. 15 tones, spaced 20 Hz
7198.0	1121	02	03			J7D		2K70E	USB 7196.0 / CIS-12

RSGB; Richard, G4DYA									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7199.995	1058-1258	02	03			A3E		9K00E	BC
14008.0	0730	05	03			F1B		250	
14015.0	0855	17	03			F3N	50	10K0E	FMCW radar
14022.0	0910	29	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14040.0	0932	25	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14043.0	0742	28	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14063.0	1005	30	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14100.0	0912	29	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14104.0	0828	26	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14112.0	0911	07	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14113.0	0954	17	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14115.0	0911	07	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14117.0	1033	02	03				10	160KE	Radar bursts
14120.0	0955	05	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14132.0	0912	13	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14139.0	0908	15	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14147.0	0830	26	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14175.0	0904	29	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14182.0	0839 0836	09 26	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14184.0	0841	11	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14190.0	0934	14	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14202.0	0956	17	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14203.0	0935	02	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14223.0	0922	29	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14226.0	1220	23	03			F1B		250	
14227.0	0824	10	03	CHN		F3N	50	10K0E	FMCW radar bursts
14236.0	0900	13	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14242.0	0737	12	03			J7D		2K70E	USB 14240.0 / CIS-12. Ceased 0839z
14250.0	0837	09	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14253.0	1457 0842	26 29	03			F1B		250	RR 5.152 ?
14264.0	1032	12	03	CHN		F3N	41.7	10K0E	FMCW radar bursts
14267.0	0904	15	03			F3N	50	10K0E	FMCW radar
14267.0	1002	17	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14272.0	0817	09	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14276.0	1013	10	03	CHN		F3N	41.7	10K0E	FMCW radar bursts
14277.0	0907	13	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14281.0	1018	30	03			F3N	50	10K0E	FMCW radar
14283.0	0839	11	03			F3N	50	10K0E	FMCW radar
14288.0	0841	29	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14295.0	0838	12	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14299.0	0850	22	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14301.9	0856	16	03			J7D		2K80E	USB 14300.0 / CIS-60 RR 5.152 ?

RSGB; Richard, G4DYA									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14303.0	0846	10	02				10	160K	Radar
14315.0	0820	09	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14319.0	0836	25	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14322.0	1018 1037	10 12	03	CHN		F3N	41.7	10K0E	FMCW radar bursts
14326.0	0835	12	03	CHN		F3N	50	10K0E	FMCW radar bursts
14328.0	0835	12	03	CHN		F3N	41.7	10K0E	FMCW radar bursts
14331.0	0959	17	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14332.0	0904	15	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14333.0	1000	18	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14334.0	0823	09	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14335.0	1000	18	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14336.0	0956	05	03	CHN		F3N	50	10K0E	FMCW radar bursts
14346.0	0818	09	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14348.0	0903	13	03	CHN		F3N	66.7	10K0E	FMCW radar bursts
14399.0	1040	12	03				10	160K	Radar 14319 - 14479 kHz
18107.0	vt	vd	03	RUS	RDL	F1B	50	200	Ident in F1A. Permitted by RR 5.154
18160.0	1021	30	03	G		F3N	25	20K0E	FMCW radar, Cyprus
18175.0	1149	02	03	G		F3N	50	20K0E	FMCW radar, Cyprus
21020.0	1011	30	03			F3N	12.5	40K0E	FMCW radar
21150.0	1118	10	03	G		F3N	25	20K0E	FMCW radar, Cyprus
21170.0	1204	15	03	G		F3N	50	20K0E	FMCW radar, Cyprus
21190.0	0815	30	03	G		F3N	25	20K0E	FMCW radar, Cyprus
21210.0	0949	25	03	G		F3N	25	20K0E	FMCW radar, Cyprus
21280.0	0942	30	03			F3N	12.5	40K0E	FMCW radar
21310.0	1122	14	03	G		F3N	25	20K0E	FMCW radar, Cyprus
21330.0	1103 1217	10 23	03	G		F3N	25	20K0E	FMCW radar, Cyprus
21438.0	0850 0922	13 29	03	RUS	RCV	A1A	~20		

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
7 MHz	1100-1600	*	3	RUS		RADAR	10sps	10k0E	*) Days: 10. 11. 12. 17. 20. 21. 22. 23. 26.
7 MHz	1400-1845	*	3	CHN		RADAR	50/67sps	10k0E	*) Days: 4. 9. 13. 15. 16. 24. 25. 28. 30. 31. 'foghorn'
7 MHz	1400-0700	dly	3	RUS		RADAR	40sps	13k0E	(WebSDR 30d) Kontainer
7015.0	1025-1508/	17 19	3			F1B		200H	
7016.0	0820-1046/	*	3	RUS		F1B		250H	*) Days: 17. 18. 23.
7019.0	0630-0830/	1	3	RUS		F1B		200H	
7020.0	0655-1320/	5 25	3	RUS		F1B		250H	

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
7031.0	0600-1600/	*	3	RUS		J3E-u		3k0E	*) Days: 16. - 20. see 7056 & 7126 kHz
7035.0	0645-0905/	*	3	RUS		J7D	120	2k60E	*) Days: 12. 18. 23.
7039.0	0430-1730	dly	3	RUS	C	A1A		20H	Beacon
7039.2	1415-1630	2 10	3	RUS	F	A1A		20H	Beacon
7039.4	1500-1630	10 11	3	RUS	M	A1A		20H	Beacon
7041.0	1550-1600	22	3			A1A	20	20H	5BL, 5F
7056.0	0600-1600/	*	3	RUS		J3E-u		3k0E	*) Days: 1. - 5. see 7031 & 7126 kHz
7057.5	1100-1520/	*	3	RUS	MKTB etc	A1A	25	20H	*) Days: 7. 9. 18. 19. 28. 29. 5F
7061.0	0630-0830	23	3	RUS		J7D	120	2k60E	
7080.0	1715-1730	18	3	RUS		F1B		200H	
7081.0	0500-1530	7	3	RUS		J7D	120	2k60E	Also usb on 7079 kHz fem vox
7090.5	0615-1515	*	3	RUS		J7D	120	2k60E	*) Days: 10. 11. 12.
7099.0	0740-1415	*	3	RUS		A1A	15	20H	Days: 21. 27. 28. 29. 5BL
7102.0	1100-1715	14	3	RUS		F1B		200H	
7122.0	0815-1115	5 9	3	RUS	RDL	F1B/A NON		200H	
7126.0	0600-1600	*	3	RUS		J3E-u		3k0E	*) Days: 11. - 15. see 7031 & 7056 kHz
7137.0	1630	15	3	RUS	RDL	F1B/A		200H	5F
7140.0	1115-1215	9	3	RUS		J7D	120	2k60E	
7140.0	0430-0700	dly	3	ERI	VoBM	A3E		9k0	
7140.0	1345-1840/	dly	3	ERI	VoBM	A3E		9k0	
7146.0	0730-1230	1 11	3	RUS		J7D	120	2k60E	
7158.0	1320-1615	13	3	RUS	VB	A1A		20H	Beacon?
7159.0	0920-1800	*	3	IW		G7D		6k0E	*) Days: 13. - 17. dsb / usb, ship
7160.0	0730-1020	19 25	3	RUS		J7D	120	2k60E	
7170.0	1300	12	3	RUS	RIT	A1A		20H	
7170.0	0900-1100	4	3	RUS		J7D	120	2k60E	
7171.0	0800-0920/	12	3	RUS		J7D	120	2k60E	
7176.0	0820-0905	8	3	RUS		F1B		250H	

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
7180.0	0500-0700/	*	3	ERI		A3E		9k0	*) Days: 1. - 21. 30.
7180.0	1345-1840/	*	3	ERI		A3E		9k0	*) Days: 1. - 21. 30.
7184.0	0600-1830	*	3	RUS		J7D	120	2k60E	*) Days: 9. 10. 11.
7186.0	0730-1020	*	3	RUS		J7D	120	2k60E	*) Days: 17. 18. 19.
7188.0	1050-1110	11	3	RUS		J7D	120	2k60E	
7196.0	0830-0900	*	3	RUS	DH4D	A1A	16	20H	*) Days: 8. 25. 29. 5BL
7196.0	0830-1500	1	3	RUS	CZ9H	F1A		250H	
7198.0	1100-1200	2	3	RUS		J7D	120	2k60E	
7200.0	1058-1300/	*	3	TWN	National Unity R.	A3E		9k0	*) Days: 1. - 27. Korean px
10 MHz			3	CYP		RADAR	50sps	20k0	(WebSDR 6d)
10 MHz	0845-0900	1	3	RUS		RADAR	40sps	13k0E	(WebSDR 9d) Kontainer
14 MHz	0600-1430	*	3	CHN		RADAR	50/67sps	10k0E	*) Days: 2. 3. 5. 6. 7. 11. 12. 15. - 20. 26. 31. 'foghorn'
14 MHz	0630-1030	*	3	CHN		RADAR	10sps	160k0	*) Days: 2. 23. 25. 29.
14 MHz	0730-1000	*	3	CHN		RADAR	50sps	10k0E	*) Days: 2. 4. 8. 11. 17. 21.
14 MHz	1030-1300	*	3	RUS		RADAR	40sps	13k0E	*) Days: 3. 7. 30. (WebSDR 9d) Kontainer
14 MHz	1100	23	3	RUS		RADAR	10sps	10k0E	
14000.0	/1400-1500/	*	3	CHN	CRI	A3E		9k0	*) Days: 28. - 31. intermod. 13710 & 13855 kHz
14210.0	0530-1020	*	3			RADAR	10sps	5k0E	*) Days: 10. 11. 12. 15. 16. 18. 20. 24. - 30.
14221.0	0430-0630	*	3	KAZ		F1B		200H	*) Days: 5. 21. 24. 28. - 31.
18 MHz	0600-1315	*	3	CYP		RADAR	50sps	20k0	*) Days: 8. 16. 20. 21. 24. 27. (WebSDR 9d)
21 MHz	0600-1405/	*	3	CYP		RADAR	50sps	20k0	*) Days: 10. 12. 23. 26. (WebSDR 10d)
21438.0	/0830-0930	*	3	RUS	RCV	A1A	20	20H	*) Days: 12. 16. 25. 26.

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD/sps	SH / BW	DETAILS
6996	1757	11	03	RUS		RADAR	40	12K0E	OTHR Contayner
7002	1948	08	03			RADAR	40	12K0E	OTHR Contayner
7010	1644	11	03	INS		J3E-L			Indonesian "village radio"
7015	1946	17	03			J7D		2K70E	CIS-12
7033	1748	08	03			RADAR	40	12K0E	OTHR Contayner
7034	1810	08	03			RADAR	41.7	10K0E	Short bursts. "Foghorn"
7034.9	0737	18	03			J7D	120	2K70E	CIS-12
7042	1936	03	03			RADAR	47.6	10K0E	Short bursts. "Foghorn"

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD/sps	SH / BW	DETAILS
7046	1820	22	03			F1B	50	200H	
7047	1632	25	03			J7D	120	2K70E	CIS-12
7055	1655	vt	vd			J3E-U			UKR/RUS "radiowar". Often
7056	1934	23	03	RUS		RADAR	40	12K0E	OTHR Contayner
7058	1852	15	03	RUS		RADAR	40	12K0E	OTHR Contayner
7058	2053	04	03			RADAR	67	10K0E	Short bursts. "Foghorn"
7060	1854	10	03			RADAR	40	12K0E	OTHR Contayner
7061	1643	07	03			RADAR	40	12K0E	OTHR Contayner
7062	1634 vt*	14 vd*	03	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 14/03, 1634 UTC
7065	1844 vt*	05 vd*	03			RADAR	40	12K0E	OTHR Contayner *Also on 06/03, 1836 UTC
7066	1612	05	03			RADAR	40	12K0E	OTHR Contayner
7067	1847	19	03	RUS		RADAR	40	12K0E	OTHR Contayner
7070	0900	20	03			J3E-L			Reported by 6W1QL. Mauritanian fishery
7074.4	0734	06 vd	03			A1N			Series of 16 dashes or continuous dashes.Often
7074.8	0704 vt	16 vd	03			A1N			Continuous dashes. Often.
7075	0720 vt	04 vd	03			A1N			Series of 16 dashes or continuous dashes. Often
7080	1812 vt	05 vd	03			F1B	50	200H	Almost daily
7081	1632	07	03			J7D		6K0E	CIS-12. Idling.
7087	1914	05	03			RADAR	40	12K0E	OTHR Contayner
7091	2153	01	03			RADAR	50	10K0E	Short bursts. "Foghorn"
7092	2020	14	03	RUS		RADAR	40	12K0E	OTHR Contayner
7096	1853	02	03			RADAR	40	12K0E	OTHR Contayner
7099	2010	25	03	RUS		RADAR	40	12K0E	OTHR Contayner
7101	1954	03	03			RADAR	47.6	10K0E	Short bursts. "Foghorn"
7103	1946	20	03	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
7104	0739	16	03			F1B		250H	
7105	2042	18	03	RUS		RADAR	40	12K0E	OTHR Contayner
7107	1955	17	03	RUS		RADAR	40	12K0E	OTHR Contayner
7108	2025	12	03	RUS		RADAR	40	12K0E	OTHR Contayner
7111	1836	15	03	RUS		RADAR	40	12K0E	OTHR Contayner
7114	1903 vt*	19 vd*	03			F1B	50	200H	*Also on 20/03, 1950 UTC
7116	1917 vt*	08 vd*	03			RADAR	40	12K0E	OTHR Contayner *Also on 14/031642 UTC
7117	1704	03	03			RADAR	40	12K0E	OTHR Contayner *Also on 18/03, 1841 UTC
7118	1925	12	03	RUS		RADAR	40	12K0E	OTHR Contayner
7119	1956	16	03	RUS		RADAR	40	12K0E	OTHR Contayner
7120	1823	06	03			RADAR	40	12K0E	OTHR Contayner
7121	1908	25	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
7121	1645	07	03			RADAR	40	12K0E	OTHR Contayner
7122	2001	21	03	RUS		RADAR	40	12K0E	OTHR Contayner
7123	1817	12	03	RUS		RADAR	40	12K0E	OTHR Contayner
7125	1848	10	03			RADAR	40	12K0E	OTHR Contayner
7127	1635	05	03			RADAR	4	120K0E	OTHR Contayner
7137	1639	15	03	RUS	RDL	F1B	50	200H	

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD/sps	SH / BW	DETAILS
7137	1817	04	03			RADAR	40	12K0E	OTHR Contayner
7140	vt	dd	03	ERI	VoBM1	A3E			BC. Almost daily
7141	1928	23	03	RUS		RADAR	40	12K0E	OTHR Contayner
7142	0725	11	03			F1B	75	250H	
7142	2109	01	03			RADAR	41.7	10K0E	Short bursts. "Foghorn"
7145.9	0719	11	03			J7D			CIS-12. Idling
7148	1831	21	03	RUS		RADAR	40	12K0E	OTHR Contayner
7150	1654	25	03	RUS		RADAR	40	12K0E	OTHR Contayner
7150	1652	10	03			RADAR	40	12K0E	OTHR Contayner
7152	1713	03	03			RADAR	40	12K0E	OTHR Contayner
7159	1732	17	03			G7D			
7159	1651	14 vd*	03			B7D		6K0E	*Also on 15 & 16/03. Long-lasting
7163	1813	08	03			RADAR	66.5	10K0E	Short bursts. "Foghorn"
7166	2330	29	03	RUS		RADAR	40	12K0E	OTHR Contayner
7169	1919	19	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
7171	2157	29	03	RUS		RADAR	40	12K0E	OTHR Contayner
7178	1805	11	03	RUS		RADAR	40	12K0E	OTHR Contayner
7180	vt	vd	03	ERI	VoBM2	A3E			BC. Often
7180	1913	19	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
7181	1649	24	03	RUS		RADAR	40	12K0E	OTHR Contayner
7183	1749	24	03	RUS		RADAR	40	12K0E	OTHR Contayner
7184	1642	09 vd*	03			J7D		2K60E	CIS-12. Idling. Long-lasting *Also on 10/03
7184	0942	09	03			J7D		2K60E	CIS-12. Idling
7186	0816	17	03			J7D			CIS-12. Long-lasting *Also on 18/03
7188	1758	14	03	RUS		RADAR	40	12K0E	OTHR Contayner
7189	1707	11	03	RUS		RADAR	40	12K0E	OTHR Contayner
7193	1657	15	03	RUS		RADAR	40	12K0E	OTHR Contayner
7194.75*	1825 vt**	12 vd**	03			XXX		CA500H	*And surroundings. Broken sys? **Often
7195	1850	15	03	RUS		RADAR	40	12K0E	OTHR Contayner
7197.5	1846	15	03			J7D			MIL-188-141A - ALE
10148	2012	20	03	AUS		RADAR	6.8	11K0E	OTHR Sweeps. JORN
10153	1723	01	03			RADAR	40	12K0E	OTHR Contayner
14000.5	0938	01	03			J7D			MIL-188-141A - ALE
14007.86	0730	11	03			Carrier			Carrier
14008	0946 vt*	4 vd*	03			F1B	50	250H	*Often
14010	0757		03	CHN		RADAR	50	10K0E	OTHR
14015	0725	19	03	CHN		RADAR	50	10K0E	OTHR
14015	0808 vt*	17 vd*	03	CHN		RADAR	50	10K0E	OTHR. *Also on 19/03
14024	0926	24	03	CHN		RADAR	50	10K0E	OTHR
14026	0722	04	03			RADAR	50	10K0E	OTHR
14028	0747	29	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14034	1159	17	03	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14040	0909	25	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14049	0748	29	03	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14063	1005	30	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14092	1038	28	03	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14101	0722	19	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD/sps	SH / BW	DETAILS
14101.9	0758	17	03			W7D		2K80E	OFDM
14106	0712	29	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14112	0832	07	03			RADAR	66.7	10K0E	Short bursts. "Foghorn"
14115	0740	03	03			RADAR	40	12K0E	OTHR Contayner
14128	0739	11	03	CHN		RADAR	50	10K0E	OTHR. BW = 10K0E. 50 sps
14131	1014	29	03			RADAR	20	10K0E	OTHR
14137	0819	20	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14148	1626	11	03	RUS		RADAR	40	12K0E	OTHR Contayner
14149	1042	01	03			RADAR	40	12K0E	OTHR Contayner
14161	0736	03	03			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14162	0800	13	03			J7D	120	2K70E	CIS-12
14169	0757	01	03			F1B	50	200H	
14171	1201	29	03			J7D	120	2K70E	CIS-12
14182	0817	09	03			RADAR	66.7	10K0E	Short bursts. "Foghorn"
14183	0909	24	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14184	0752	11	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14187	0818	13	03	CHN		RADAR	66.5	10K0E	Short bursts. "Foghorn"
14190	0934	14	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14196	0733	29	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14197	0903	04	03			RADAR	66.7	10K0E	Short bursts. "Foghorn"
14198	0729	22	03	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14202	0819	17	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14211	0814	12	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14212	1203	25	03			J7D	120	2K70E	CIS-12
14212	0817	12	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14212	1210	04 vd*	03		175	AM		ca 7K0E	Numbers st "S06s". *Every Thursday at 1210 UTC
14215	0653	29	03	CHN		RADAR	83.3	10K0E	Short bursts. "Foghorn"
14218.5	823	30	03			F1B	600	600H	DPRK-FSK 600 ARQ
14221	2009	20	03			F1B	50	200H	
14222	0643	01	03			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14226	0823	25	03	CHN		RADAR	10	160K0E	Wideband OTHR
14226	1209	23	03			F1B	75	250H	
14230	0745	19	03	CHN		RADAR	10	160K0E	CHN Wideband OTHR
14233	0807	11	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14235	0904	17	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14238.5	1628	25	03			F1B	600	600H	DPRK FSK 600 ARQ
14240	0810	11	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14240	0805	11	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14242	0717	16	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14242	0729	12 vd*	03	RUS		J7D	120	2K60E	CIS-12. *Also on 22/03
14250	0754	09	03			RADAR	66.7	10K0E	Short bursts. "Foghorn"
14251	0725	4	03			RADAR	62.4	10K0E	Short bursts. "Foghorn"
14253	1401	19	03			F1B	75	250	
14253	0829	08	03			F1B	75	250H	*Also on 22 & 29/03
14260	1056	12	03	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14264	1043	12	03	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
14267	0841	17	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14271	0656	09	03			RADAR	50	10K0E	OTHR
14272	0813	09	03			RADAR	66.7	10K0E	Short bursts. "Foghorn"
14281	1030	30	03	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14283	0749	11	03	CHN		RADAR	50	10K0E	OTHR. BW = 10K0E. 50 sps

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD/sps	SH / BW	DETAILS
14285	0903	19	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14285	0859	08	03	CHN		RADAR	50	10K0E	OTHR
14285	0737	03	03			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14287	0827 vt	17	03			RADAR	20	10K0E	OTHR. Short swsweeps, abt. 1 min
14292	0748	11	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14293	0740	05	03			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14295	0832	12	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14298	0916	19	03	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14299	0843	22	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14299	0733	22	03	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14301.9	0714 vt	09 vd*	03			W7D		2K80E	OFDM. *Also on 10 & 16/03
14303	0754	20	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14304	0839	13	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14304	0951	10	03			RADAR	10	160K0E	Wideband OTHR
14305	0953	02	03			RADAR	66.7	10K0E	Short bursts. "Foghorn"
14308	0848	05	03			RADAR	50	10K0E	Short bursts. "Foghorn"
14316	0831	22	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14318.5	1841	25	03			F1B	600	600H	DPRK-FSK 600 ARQ
14319	0826	25	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14320	0910	24	03	CHN		RADAR	10	160K0E	CHN wideband OTHR
14321	0713	16	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14322	1047	12	03	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
14323	1201	17	03	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14324	0740	19	03			F1B		200H	
14324	1011	04	03			RADAR	41.6	10K0E	Short bursts. "Foghorn"
14325	0645	29	03	CHN		RADAR	10	160K0E	Wideband OTHR
14326	0812	12	03	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14326.9	0859	25	03			W7D		2K80E	OFDM
14328	0755	12	03	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
14333	0746	11	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14334	0819	09	03			RADAR	66.7	10K0E	Short bursts. "Foghorn"
14335	0814	09	03			RADAR	66.7	10K0E	Short bursts. "Foghorn"
14336	0804	20	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14336	0836	07	03			RADAR	62.29	10K0E	Short bursts. "Foghorn"
14338	0751	06	03			RADAR	50	10K0E	Short bursts. "Foghorn"
14338	0747	05	03			RADAR	66.7	10K0E	Short bursts. "Foghorn"
14339	0930	14	03	CHN		RADAR	41.6	10K0E	Short bursts. "Foghorn"
14339	0955	02	03			RADAR	66.7	10K0E	Short bursts. "Foghorn"
14339	0729	01	03			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14343	0900	22	03	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14346	0820	09	03			RADAR	66.7	10K0E	Short bursts. "Foghorn"
14360	1119	12	03	RUS		RADAR	40	12K0E	OTHR Contayner
14374	0647	29	03	CHN		RADAR	10	160K0E	Wideband OTHR
18150	1312	04	03			J3E-U			Reported by EA1EJ. Spanish fishers
18170	0822	09	03			RADAR	25	20K0E	OTHR Pluto
18175	0905	24	03			RADAR	25	20K0E	OTHR Pluto. BW = 20K0E. 25 sps.
18175	0749	13	03			RADAR	50	20K0E	OTHR Pluto
21020	1014	30	03			RADAR	12.5	40K0E	OTHR
21028	1115 vt*	20 vd*	03			RADAR	20	10K0E	OTHR short sweeps (about 1 min) *Also on 21/03, 1812 UTC
21125	1218	21	03			RADAR	12.5	40K0E	OTHR

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD/sps	SH / BW	DETAILS
21130	1224	22 vd*	03			RADAR	25	20K0E	OTHR Pluto *Also on 29/03, 1004 UTC
21167	1103	20	03	CHN		RADAR	41.9	10K0E	Short bursts. "Foghorn"
21178	1103	20	03	CHN		RADAR	41.9	10K0E	Short bursts. "Foghorn"
21210	0946	25	03			RADAR	25	20K0E	OTHR Pluto
21250	1050	22	03			RADAR	12.5	40K0E	OTHR. BW = 40K0E. 12.5 sps.
21280	0942	30	03			RADAR	12.5	40K0E	OTHR
21290	1058 vt*	20 vd*	03			RADAR	25	20K0E	OTHR Pluto *Also on 23/03, 1202 UTC
21310	0958	02	03			RADAR	50	20K0E	OTHR Pluto
21356	1154	21	03			RADAR	12.5	40K0E	OTHR. BW = 40K0E. 12.5 sps
21438	1102 vt	08 vd*	03		RCV	A1A	19		RCV QTC. Often
28860	1210	20	03	IRN		RADAR	150/ 313	CA45K0E	OTHR

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
5361.8 VFO -USB	0911	29	03	DNK		G1D PSK8	2400 Bd	2k70E	STANAG 4285: legal (primary user)!
7003.0	1419	16	03			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK
7039.6	0822 0902	28	03			A1A			only short sequence, e.g. "125V" or "128V" etc; at h02, 22, 42
7050.0	1409	11	03			J3E-L		2k70E	Russian-Ukraininen Radio war daily
7055.0	1630	11	03			J3E-L		2k70E	Russian-Ukraininen Radio war daily
7080.0	1721	17	03			F1B		200H	long lasting
7106.0	1658	17	03			Radar	10 sps	160k0E	OTHR; often
7109.0	1728	31	03			FMOP	66.66 sps	10k0E	OTHR; bursts; Foghorn
7114.0	1907	19	03			F1B	50	200H	often
7114.0	0952	30	03	RUS		J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK
7140.0	1638	11	03	ERI	VOBM	A3E		ca 9k0E	BC: Voice of the broad Masses 1 daily
7146.0	1403	11	03			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK; idling
7159.0	1501	16	03			B7D	75 Bd	ca 6k0E	LINK11 CLEW DSB or ISB Mode
7159.0 VFO USB	1651	17	03			G7D	75 Bd	ca 2k50E	LINK11 CLEW SSB
7186.0	1641 0854	17 18	03			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK, with pilottone and also carrier
14008.0	1001	12	03	RUS		F1B		250H	often
14108.0	1054	16	03			FMOP	66.66 sps	10k0E	OTHR; Bursts "Foghorn"
14148.0	1633	11	03			FMOP	40 sps	12k0E	OTHR; Contayner
14163.0	0941	29	03			FMCW	50 sps	10k0E	OTHR; bursts
14171.0	0827	12	03			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK
14240.0	1311	31	03			F1B		250H	
14242.0	0838	12	03			J7D	12x120 Bd	2k70E	CIS12; BPSK or QPSK; idling
14253.0	1501	26	03			F1B		250H	
14275.0	1310	31	03			F1B		250H	
14281.0	1034	30	03			FMCW	50 sps	10k0E	OTHR; bursts
14288.0	0825	29	03			FMOP	66.66 sps	10k0E	OTHR; Bursts "Foghorn"
14295.0	0844	12	03			FMOP	66.66 sps	10k0E	OTHR; Bursts
14301.9	1030	16	03			OFDM 60		2k80E	tone spacing 44.45Hz. Pilot tone,at 3300Hz (legal ITU RR)
14320.0	1015	14	03			Radar	10 sps	160k0E	Wideband OTHR

USKA; Peter, HB9CET									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
14324.0	0844	29	03			Radar	10 sps	160k0E	Wideband OTHR
18107.0	0947	12	03	RUS	RDL	F1B	36/50	200H	CIS 36-50 often
21190.0	0819	30	03			FMCW	25	ca 20k0E	OTHR (UK-base Cyprus)
21280.0	0947	30	03			OTHR	12.5	40k0E	
21438.0	0856 0848	12 29	03		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
3527.0	2047	06	03			F1B			Revs/Ptr; UiPtr
3548.0	2055	06	03			F1B			UiPtr
3568.0	1900	18	03					50K0E	CF; Unknown strange signal; weak; reported by PA0SIM; also found on several European KiwiSDRs
3629.0	2040	11	03						Idling; un-identified mode
3770.5	1952	27	03			A3E		3K0E	Music; S5-6
5363.5	vt	vd	03			G1D	600	2k7E	CF; Stanag-4285; harmful for SSB section in 60m band; TDOA Central Northsea; primary user!
7039.6	1422	30	03			A1A			Short bursts abt 2 min: 128V; repeated H+22, H+42, H+52 etc. ; weak S4; telemetry?
7050.0	1345	17	03	UKR/ RUS		J3E-L		2k7E	Political slogans; Jammed by RTTY-dashes
7050.0	1348	17	03	UKR/ RUS		J3E-L			2 nd TX with music/songs
7055.0	1320	28	03	UKR/ RUS		J3E-L		2K7E	Political comments; 2nd TX, but weaker, on same frequency
7056.4	1420	05	03			F1B		100	Idling; bad signal/harmonics; QSB; broken system?
7080.0	2002	19	03			F1B			Revs/Ptr; UiPtr
7114.0	1948	19	03			F1B			Revs/Ptr; UiPtr
14008.0	1005	10	03			F1B			UiPtr
14008.0	1033	16	03			F1B			Carrier/Revs/Ptr; UiPtr
14008.0	1116	18	03			F1B		250H	UiPtr
14014.0	1115	12	03			F1B			Revs; UiPtr
14116.0	1034	03	03			Radar			OTHR
14176.0	2117	29	03			A3E			UiBC Middle East type of music
14227.0	1030	16	03			F1B			UiPtr
14300.0	1051	16	03			Radar			OTHR Border UA2/RUS TDOA
18081.0	1004	17	03			Radar			OTHR TDOA 5B/Cyprus
18107.0	1047	12	03			F1B			Revs/Ptr; UiPtr
21436.0	1022	03	03			F1B			UiPtr

Many thanks to all our valued helpers.

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