



IARU Monitoring System Region 1

Monthly Newsletter 2 - February 2021

edited by Gaspar Miró, EA6AMM and Peter Jost, HB9CET

News and Info's

As in the month before OTHR kept on producing the biggest part of the annoyances caused in amateur bands. While the radar Contayner seems to have a bit decreased its transmissions on 40 m and 20 m, the wide-band Chinese radar (BW = 160 kHz; 10 sps) doubled its transmissions, especially on 20 m and 40m. Also, the CHN burst radars (nicknamed "Foghorn") keep on transmitting were observed very often. The OTHR from the UK-base in Cyprus was found on 15 and 17 m.

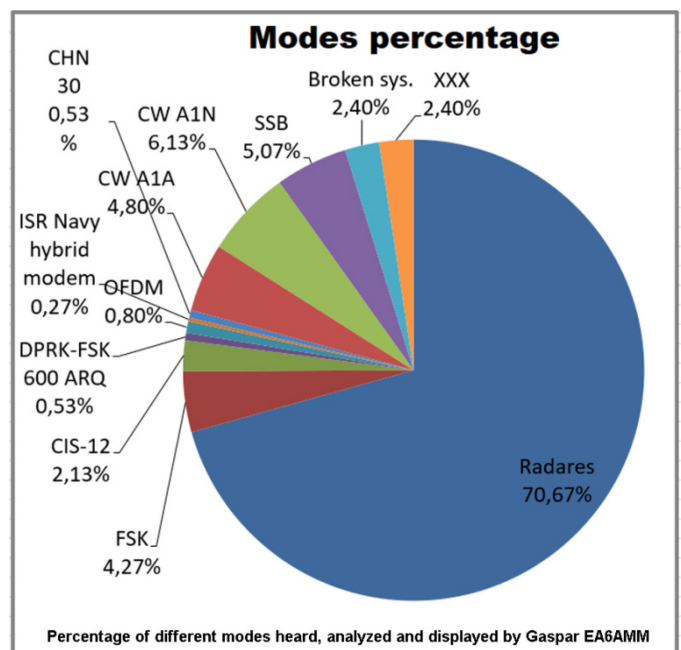
FSK emissions from intruders seem to have decreased slightly; maybe propagation is one of the reasons. Many other digital signals as CIS-12, ALE MIL188-141A and others were observed on various frequencies.

The mysterious groups of dashes (sometimes 5 dashes, sometimes 16 dashes, sometimes continuous dashes) keep on being transmitted during long hours almost daily at 7075 kHz and its near surroundings inside the segment of the 40 m band dedicated for FT-8 transmissions. They are very difficult to locate, and we still don't know where do these come from?

The broadcasting stations "Voice of Broad Masses" (VOBM1 and VOBM2) from Eritrea keep on causing daily interference at 7140 and 7180 kHz. Another station at 7200 kHz, which is probably "National Unity Radio" also broadcasts daily from 1100 to 1300 UTC.

For many years heard, the same numbers station - (female voice, RUS language) nicknamed "S06s" and supposed to belong to the Ukrainian secret services - has been received every Wednesday 7062 kHz USB, also usually received at 14280 kHz.

EA6AMM, Gaspar and HB9CET, Peter



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: Wolf DK2OM; Tom DF5JL, Tycho DK8LX, Hans-Martin DK2HM, Horst DK1HKU, Kai R.Gerhard DL1KGT, Daniel DL3RTL, Alex DB3TA									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3510.0 RF	1700	dly	02	RUS		chirps		3k	mysterious chirps - 60 km east of Bryansk - shared band

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3756.8 RF	1800	dly	02	RUS		USB			RUS MIL - channel marker - 4 tones - Tuapse - East Black Sea (NW of Sochi) - night QRG
3517.2	2145	21	02	E		LSB			Spanish fishery - ship traffic - often
3527.0	2000	02	02	RUS		F1B	50	200	Severomorsk - daily - shared band
3581.8	ady	dly	02	TUR		PSK8A	2400	2400	Stanag-4285 - 600 bps long - Ankara - shared band!
3585.0	ady	dly	02	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!
3622.5	ady	dly	02	J	JMH	F1C		800	Tokyo Meteo - 120 rpm - IOC 576 - daily, all day - legal!
3710.0	1655	02	02	BEL				3k	Digital Signal
3731.0	2035	05	02	UKR		J3E-L		2k9	Propaganda
3517.2	2145	21	02	E		LSB			Spanish fishery - ship traffic - often
3527.0	2000	02	02	RUS		F1B	50	200	Severomorsk - daily - shared band
7000.0	1816	03	02	MRC		USB			Moroccan fishery
7005.0	1744	24	02	INS		LSB USB			Indonesian pirates - daily
7010.0	1644	03	02	CHN		FMOP	50	10k	Chinese OTH radar 5.1 sec bursts
7011.0	1704	25	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7014.0	1817	17	02	CHN		FMOP	50	10k	Chinese OTH radar 5.1 sec bursts
7015.0	1900	15	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7016.0	1754	18	02	CHN		FMOP	10	160k	Chinese wideband OTHR
7019.0	1900	15	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7019.0	2005	03	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7020.0	1804	08	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7021.0	1949	18	02	CHN		FMOP	65	10k	Chinese OTH radar 3.8 sec bursts
7021.0	1720	06	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7030.0	1526	06	02	CHN		FMOP	66.66	10k	Chinese OTH radar 3.8 sec bursts
7032.0	1600	01	02	CHN		FMOP	10	160k	Chinese wideband OTHR
7037.0	1542	04	02	CHN		FMOP	67	10k	Chinese OTH radar 3.8 sec bursts
7040.0	1809	09	02	CHN		FMOP	49	10k	Chinese OTH radar 5.1 sec bursts
7040.0	1831	17	02	INS		LSB USB			Indonesian pirates daily
7040.0	2150	19	02	CHN		FMCW	41.67	10k	OTHR 6,12s bursts
7047.0	1806	17	02	CHN		FMOP	49	10k	Chinese OTH radar 5.1 sec bursts
7050.0	1557	03	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7053.0	1808	03	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7054.0	2214	24	02	CHN		FMOP	10	160k	Chinese wideband OTHR
7055.0	1655	26	02	CHN		FMOP	10	160k	Chinese wideband OTHR 51 sec blocks - 153.6 sec gaps
7055.0	vt	dly	02	UKR		LSB			music and Russian voices
7057.0	1705	09	02	RUS		FMOP	40	12k	OTH radar Contayner - NW of Saransk
7058.0	1902	15	02	RUS		FMOP	40	12k	OTHR Contayner
7059.0	1810	25	02	RUS		FMOP	40	12k	OTH radar Contayner - NW of Saransk long lasting
7060.0	2131	18	02	CHN		FMOP	10	160k	Chinese wideband OTHR
7060.0	1856	05	02	RUS		FMOP	40	12k	OTHR Contayner
7064.0	1900	16	02	RUS		FMOP	40	12k	OTHR Contayner
7064.0	1704	02	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7065.0	1958	12	02	CHN		FMOP	5	160k	Chinese wideband OTHR
7070.0	1629	17	02	CHN		FMOP	10	160k	Chinese wideband OTHR
7077.0	2030	04	02	CHN		FMOP	10	160k	Chinese wideband OTHR
7084.0	1644	05	02	CHN		FMOP	10	160k	Chinese wideband OTHR

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7086.0	1746	12	02	CHN		FMOP	10	160k	Chinese wideband OTHR
7087.0	2145	01	02	RUS		FMOP	40	12k	OTHR Contayner
7088.0	1949	10	02	CHN		FMOP	5	160k	Chinese wideband OTHR
7091.0	1614	26	02	CHN		FMOP	50	10k	Chinese OTH radar sec bursts
7092.0	1758	08	02	CHN		FMOP	10	160k	Chinese wideband OTHR
7092.0	1842	08	02	CHN		FMCW	50	10k	OTHR 2,55s bursts
7095.0	2033	17	02	CHN		FMOP	66.66	10k	Chinese OTH radar 3.8 sec bursts
7095.0	1613	03	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7097.0	1450	12	02	CHN		FMOP	50	10k	Chinese OTH radar 5.1 sec bursts
7098.0	1734	20	02	CHN		FMOP	10	160k	Chinese wideband OTHR 51 sec blocks
7099.0	1515	07	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7101.0	1927	27	02	CHN		FMOP	49	10k	Chinese OTH radar 2.6 sec bursts
7101.0	1535	05	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7103.0	1618	06	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7103.0	1845	27	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7105.0	2136	27	02	CHN		FMOP	10	160k	Chinese wideband OTHR
7105.0	1732	06	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7105.0	1948	26	02	RUS		FMOP	40	12k	OTHR Contayner
7107.0	1748	08	02	RUS		FMOP	40	12k	OTHR Contayner
7108.0	1908	16	02	RUS		FMOP	40	12k	OTHR Contayner
7109.0	1739	11	02	RUS		FMOP	40	12k	OTH radar Contayner - NW of Saransk
7110.0	1843	01	02	CHN		FMOP	10	160k	Chinese wideband OTHR
7110.0	2240	16	02	RUS		FMOP	40	12k	OTHR Contayner
7111.0	2008	18	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7112.0	1744	18	02	CHN		FMOP	48	10k	Chinese OTH radar 5.1 sec bursts
7112.0	1540	28	02	CHN		FMCW	41.67	10k	OTHR 12,24s bursts
7114.0	1720	17	02	CHN		FMOP	49	10k	Chinese OTH radar 5.1 sec bursts
7115.0	1535	10	02	CHN		FMOP	51	10k	Chinese OTH radar 5.1 sec bursts
7116.0	2005	03	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7116.0	1748	08	02	RUS		FMOP	40	12k	OTHR Contayner
7117.0	1751	08	02	RUS		FMOP	40	12k	OTH radar Contayner - NW of Saransk
7118.0	1754	15	02	CHN		FMOP	66.67	10k	Chinese OTH radar 3.8 sec bursts
7119.0	2200	16	02	CHN		FMCW	41.67	10k	OTHR 6,12s bursts
7120.0	2225	19	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7121.0	1953	06	02	CHN		FMOP	67	10k	Chinese OTH radar 3.8 sec bursts
7122.0	1706	02	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7125.0	2155	19	02	CHN		FMCW	41.67	10k	OTHR 6,12s bursts
7126.0	1617	03	02	RUS		FMOP	40	12k	OTHR Contayner
7128.0	1708	06	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7129.0	1840	17	02	CHN		FMOP	67	10k	Chinese OTH radar 3.8 sec bursts
7131.0	1902	13	02	CHN		FMOP	66.66	10k	Chinese OTH radar 3.8 sec bursts
7132.0	1548	03	02	RUS		FMOP	40	12k	OTHR Contayner
7133.0	1805	03	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7134.0	1930	11	02	RUS		F1B	50	200	Vladivostok - daily
7134.0	1435	21	02	CHN		FMCW	41.67	10k	OTHR 6,12s bursts
7134.0	1708	06	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7134.0	1844	08	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7135.0	1638	09	02	CHN		FMOP	67	10k	Chinese OTH radar 3.8 sec bursts
7137.0	1908	15	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7138.0	2250	04	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7140.0	1937	03	02	CHN		FMOP	50	10k	Chinese OTH radar 5.1 sec bursts

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7140.0	1705	dly	02	ERI	VOBM 1	A3E/BC		9k	7140.021 kHz - Voice of the broad masses - Eritrea
7143.0	1618	06	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7144.0	2108	08	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7145.0	1950	25	02	CHN		FMOP	10	160k	Chinese wideband OTHR 51 sec blocks
7148.0	1600	01	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7148.0	1958	24	02	RUS		FMOP	40	12k	OTHR Contayner, long-lasting
7150.0	1730	28	02	RUS		FMOP	40	12k	OTHR Contayner
7152.0	1600	10	02	CHN		FMOP	48	10k	Chinese OTH radar 5.1 sec bursts
7155.0	1619	11	02	CHN		FMOP	50	10k	Chinese OTH radar 5.1 sec bursts
7157.0	1748	06	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7161.0	1510	07	02	RUS		FMOP	40	12k	OTHR Contayner
7166.0	1835	02	02	CHN		FMCW	41.67	10k	OTHR 6,12s bursts
7168.0	1425	02	02	CHN		FMOP	49	10k	Chinese OTH radar 2.6 sec bursts
7168.0	1435	21	02	CHN		FMCW	41.67	10k	OTHR 6,12s bursts
7172.0	1536	05	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7173.0	1544	03	02	CHN		FMOP	66.67	10k	Chinese OTH radar 3.8 sec bursts
7174.0	2030	24	02	CHN		FMOP	67	10k	Chinese OTH radar 3.8 sec bursts
7177.0	2036	21	02	CHN		FMOP	50	10k	Chinese OTH radar 5.2 sec bursts
7177.0	1554	03	02	UKR		PSK2A		3k3	CIS-12, Sewastopol, long-lasting
7178.0	1708	06	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7180.0	1409	dly	02	ERI	VOBM 2	A3E		9k	7180.021 kHz - Radio Eritrea
7182.0	2045	03	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
7185.0	2035	24	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7186.0	1604	28	02	CHN		FMCW	41.67	10k	OTHR 12,24s bursts
7188.0	1700	02	02	RUS		FMOP	40	12k	OTHR Contayner
7188.0	1708	06	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
7190.0	1632	08	02	CHN		FMOP	50	10k	Chinese OTH radar 5.1 sec bursts
7196.0	2035	05	02	UKR		PSK2A		3k3	CIS-12, Sewastopol, long-lasting
7198.0	1529	08	02	RUS		PSK2A	120	2k6	CIS-12 - Moscow
7200.0	1100	15	02	TWN	NUR	A3E		9k	7195.5 - 7204.5 kHz - BC transmission from Taiwan - carrier: 7199.997
14000.0	ady	dly	02	PNG		USB			fishermen - south east of Papua New Guinea (Coral Sea) - daily
14000.2	1106	26	02	CLN		USB			pirate net - area of Sri Lanka
14086.0	1056	23	02	CHN		FMOP	47	10k	Chinese OTH radar 2.6 sec bursts
14183.0	0931	09	02	CHN		FMOP	69	10k	Chinese OTH radar 3.8 sec bursts
14189.0	1218	12	02	RUS		FMOP	40	12k	OTHR Contayner
14196.0	0930	14	02	CHN		FMOP	66	10k	Chinese OTH radar 3.8 sec bursts
14211.0	0900	28	02	CHN		FMCW	66.67	10k	OTHR 3,8s bursts
14220.0	0935	10	02	FEa		FMOP	10	40k	OTHR
14221.0	2030	dly	02	KAZ		F1B	50	200	Kazakhstan - west of Almaty - mostly idling - every evening
14245.0	1003	25	02	CHN		FMOP	10	160k	Chinese wideband OTHR 51 sec blocks
14247.0	0959	14	02	CHN		FMOP	10	160k	Chinese wideband OTHR
14248.0	0900	28	02	CHN		FMCW	50	10k	OTHR 5,1s bursts
14255.0	0945	20	02	CHN		FMOP	49	10k	Chinese OTH radar long
14260.0	0948	23	02	CHN		FMOP	50	10k	Chinese OTH radar 5.1 sec bursts

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14280.0	1014	wed nes- day	02	UKR		A3E			Female voice with encrypted msgs - figures - "SZRU" = Foreign Intelligence Service of Ukraine in Rivne
14285.0	0951	23	02	CHN		FMOP	50	10k	Chinese OTH radar 5.1 sec bursts
14287.0	926	12	02	CHN		FMOP	66	10k	Chinese OTH radar 3.8 sec bursts
14291.0	1032	27	02	CHN		FMOP	51	10k	Chinese OTH radar 5.1 sec bursts
14295.0	0933	14	02	CHN		FMOP	66.66	10k	Chinese OTH radar 3.8 sec bursts
14300.0	0941	24	02	CHN		FMOP	64	10k	Chinese OTH radar 7.7 sec bursts
14302.0	0927	08	02	CHN		FMOP	41	10k	Chinese OTH radar 6.1 sec bursts
14305.0	0945	24	02	CHN		FMOP	68	10k	Chinese OTH radar 3.8 sec bursts
14315.0	0931	08	02	CHN		FMOP	41	10k	Chinese OTH radar 6.1 sec bursts
14351.0	0914	16	02	CHN		FMOP	50	10k	Chinese OTH radar 5.1 sec bursts
14380.0	0945	12	02	CHN		FMOP	10	160k	Chinese wideband OTHR
14396.0	0915	28	02	CHN		FMOP	10	160k	OTHR wideband, 52s blocks; partly in HAM-Band, 14316,0-14350,0 kHz
14400.0	0950	24	02	CHN		FMOP	10	160k	Chinese wideband OTHR
18080.0	0750	dly	02	TWN		A3E/BC			Sound of Hope - Taiwan and Chinese BC jammer - daily at 06 utc and later
18160.0	1422	11	02	CYP		FMOP	50	20k	UK OTH radar Cyprus
21000.0	vd	vd	02	E		USB			Spanish fishery - like telephone - daily, various times - Canary Islands
21002.0	1409	22	02	MRC		USB			Morokkan fishery
21370.0	0948	16	02	CYP		FMOP	50	20k	UK OTH radar Cyprus
21438.0	0845	12	02	RUS	RCV	A1A			RCV - RUS Navy Sevastopol with QTCs RIP90 de RCV - daily active
28005.0	vt	vd	02	RUS		F3E			RUS taxi - base station - female voice - St. Peterburg - daily - all day
28390.0	1014	16	02	RUS		F3E			RUS taxi
28860.0	1044	16	02	IRN		AMOP	150 / 313	45k	Iranian radar 150 sps and 313 sps alternating - North Iran
29600.0	0952	16	02	IRN		AMOP	313	40k	Iranian radar

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6993	2245	04	02			RADAR			6993 to 7005 kHz. Very weak.
7000	2340	03	02	B		LSB			Brazilian CBers, male voices. Medium signal.
7015	2342	03	02	B		LSB			2 nd Group of Brazilian CBers. Medium signals.
7045	1540	02	02	INS or MM		LSB			2 Indonesian fishermen chatting.
7050	2300	15	02			RADAR			7050 to 7072 kHz. Strong, persistent.
7052	2240	04	02	MRC or MM		USB			2 Moroccan fishermen chatting. Loud signals.
7055	1515	03	02	RUS/ UKR		LSB			Russian-Ukrainian radio war. All day every day. Loud.
7085	2305	15	02			RADAR			7085 to 7097 kHz. Medium strength, persistent.
7100	2235	16	02			RADAR			7100 to 7124 kHz. Strong and persistent.

IRTS; Michael, EI3GYB									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7123	1420	11	02			F1B			Strong, persistent.
7124	1245	27	02			F1B			Strong, persistent.
7135	2115	24	02			RADAR			7135 to 7162 kHz Huge signals, persistent.
7140	1645	17	02	ERI		AM			Radio Eritrea. Medium signal. Daily.
7153	2350	03	02			RADAR			7153 to 7167 kHz. Strong. Intermittent.
7163	1310	27	02			F1B			Medium signal strength, persistent.
7180	1650	17	02			AM			Radio Eritrea. Medium signal. Daily.
7180	1505	03	02			PSK			Huge signal, persistent. Still on 4 th at 2245z.
7186	1250	27	02			RADAR			7186 to 7200 kHz. Medium strength signal, persistent.
7200	1100	01	02	TJK		AM			Unity Radio Korea with a relay in Dushanbe. Daily from 1100 to 1258z. Only medium signal now due to changing grey line.
14080	0915	04	02			RADAR			14080 to 14240 kHz. Massive bursts, wipes out large parts of the band. Intermittent on and off.
14200	1020	23	02			RADAR			14200 to 14212 kHz. Huge signals, persistent.
14285	1030	08	02			F1B			Strong. Gone at 1045z.
18120	1525	03	02			AM			NX in English. MX. BC station in and out. A mixing product signal from China Radio International.
18139	1030	09	02			RADAR			18139 to 18154 kHz. Huge signals, persistent.
18147	1410	11	02			RADAR			18147 to 18170 kHz. Strong and persistent signals.
21258	1115	17	02			RADAR			21258 to 21280 kHz. Medium strength signal, in and out.
21316	1020	16	02			RADAR			21316 to 21340 kHz. Huge signals. Persistent.
21438	1030	16	02			CW			RUS navy Sevastopol. Strong signal. Also heard on 17 th .
28390	0945 to 1035	01 to 08	02	IRL		AM			A church in the West of Ireland produced a lot of harmonics from 28390 to 28470 kHz and on several other frequencies due to a fault in the transmitter set up. The interference lasted from the 1 st to the 8 th of the month. The parish priest was made aware of the situation and advised to rectify the problems. The "Parish Radio" was silent for a couple of days and returned later without causing any more interference, broadcasting only on its own frequency. The problems seem to have been solved.

MRASZ; Laci, HA7PL									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3510.0	1713	24	02			?			slow chirp
3525.0	1722	26	02			PSK2A			AT3004D

MRASZ; Laci, HA7PL

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3545.0	1702	11	02			F1B		200	
3546.5	1703	26	02			F1B		200	
3550.0	1802	20	02			PSK2A			AT3004D
3560.0	1713	24	02			PSK2A			AT3004D
3577.0	1744	09	02			A1A			"FP5Y II QLW QSA? QRK, QXS +"
3581.8	1741	09	02			PSK8A			Stanag 4825
3594.0	1710	24	02			PSK2A			AT3004D
3613.0	1719	26	02			RADAR			3610 – 3616 kHz
3736.0	1710	24	02			PSK2A			AT3004D
3797.0	1704	11	02			F1B		250	
3799.0	1709	24	02			PSK2A			AT3004D
3799.0	1715	26	02			NON			
6989.0	1657	11	02			RADAR			6989 – 7002 kHz
7028.0	0903	10	02			F1B		250	
7033.0	1700	11	02			F1B		250	
7055.0	0941	10	02			LSB			music + signing
7055.0	1340	18	02			LSB			music, later at 14.10 propaganda
7090.5	1345	15	02			F1B		250	
7095.0	1230	17	02			LSB			foolishing, unidentified,
7124.0	1745	23	02			RADAR			
7178.0	0858	27	02			PSK2A			AT3004D
7187.0	0901	27	02			RADAR			7180 – 7194 kHz
7190.5	0933	16	02			F1B		200	+ disturbance on one side of F1B
7191.0	1209	18	02			F1B		200	
7192.0	1210	18	02			A1A			+ disturbance on one side of F1B
7193.0	0928	16	02			A1A			dashes, deliberate disturbance
10121.0	0930	25	02			PSK2A			AT3004D
10123.0	0934	16	02			PSK2A			AT3004D
14085.0	0832	17	02			PSK2A			AT3004D
14215.0	0839	10	02			RADAR			14194 – 14236 kHz
14290.0	0946	10	02			RADAR			

PZK; Marek, SP3AMO + Miro, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3600.0	1630	25	2	FRA		A3E			S 7
7000.2	1625	08	2			RADAR			sps 0,5 s
7053.0	1600	01	2		UI	RADAR		14K0E	S 9 sps 40 Hz [7053.0 - 7067,0 kHz]
7056	vt	vd	2			J3E-U		3K5	Kind of hum
7056.2	1027	02	2	RUS	UI	PSK/J3E		0K3/2K7	S 6/7 sps 6 x 50Hz, J3E-U
7056.2	0727	04	2	RUS	UI	PSK/J3E		1K0/2K7	S 7, sps 50 Hz, J3E-U
7056.2	0825	05	2	RUS	UI	PSK/J3E		1K0/2K7	S 2/3
7056.2	0730	24	2		<u>UI</u>	NON			S 9 [50 Hz]
7059	1700	25	2			RADAR		22K0E	S9+30dB
7111.5	1610	01	2		UI	FSK		1K2	S 5 sps 40Hz
7121.5	1018	14	2			F1B		200	S 7/8
7121.8	0710	11	2		RDL	F1B	50	200	S 7 [07.10 UTC QRT]
7121.8	0727	11	2		RDL	F1B/F1A	50	200	S 7 [mixed 20 wpm]
7121.8	0843	12	2		RDL	F1B/F1A	50	200	S 5/6 [mixed 20 wpm]
7125	1648	23	2			RADAR		12K0E	S9 continous
7126	1020	15	2			J3E-U		3K0	Hum
7126.6	0700	12	2			PSK			S7/8 sps 50 Hz x 12
7135	1414	02	2			RADAR		10K0E	Short bursts S9

PZK; Marek, SP3AMO + Miro, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7140	1648	23	2			AM		6K0E	
7161	1340	07	2			RADAR		12K0E	Continuous QSB
7168	1414	02	2			RADAR		10K0E	Short bursts S9
7175	928	08	2			UI		1K8	S9+10dB, STANAG? Ended 930
7176	1340	07	2			RADAR		10K0E	Short bursts S9
7177	1123	09	2			RADAR		10K0E	Short burst
7177	0953	24	2			F1B		200	S9
7178.5	0850	03	2			PSK		1K6/2K7	S 9 + 10 dB, 6 x 120 Hz, sps 40 Hz [changable modes]
7178.5	0726	04	2			PSK		1K6/2K7	S 9 + 10 dB, 6 x 120 Hz, sps 40 Hz [changable modes]
7179	vt	vd	2	RUS		PSK		2K9	CIS-12 pilot 7180,3 S9+
14031	0912	03	2			RADAR		10K0E	Short bursts weak
14098	0912	03	2			RADAR		10K0E	Short bursts weak
14105	0928	12	2			RADAR		10K0E	S6-8 continous
14199.5	0924	12	2			UI		400	S9 3 lines
14220	0937	22	2			RADAR		10K0E	Short bursts
14230	0914	03	2			RADAR		160K0E	Weak, 40 second long transmisions, skip up 30 kHz and back again
14253	0925	07	2			RADAR		10K0E	S8 continous
14261	1007	19	2			RADAR		10K0E	Short bursts
14287	0920	12	2			RADAR		10K0E	Short bursts
14302	0920	03	2	RUS		PSK		2K9	CIS-12 pilot 14303,3 S5-6
14302	1009	19	2	RUS		PSK		2K9	CIS-12 pilot 14303,3 S5
14305	0934	12	2			RADAR		160K0E	Center out of the band, occupying 114305-350, S6-7
14315	0932	08	2			RADAR		10K0E	S8 Short bursts (also on 14301)
14326	0855	07	2			RADAR		10K0E	Short bursts (also on different QRGs)
18075	1010	19	2			RADAR		20K0E	S7
18168	1336	04	2			RADAR		12K	Center 18175 out of the band, but occupying 18164-68
21125.5	1230	04	2		UI	NON			S +0
21137.4	1233	04	2		UI	NON			S +0
21149.5	1236	04	2		UI	NON			S +0
21370	0944	16	2			RADAR		20K0E	S9
28860	0946	16	2			RADAR		60K0E	S7
29600	0946	16	2			RADAR		60K0E	S6

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3510.0	1739	01	02			J3E		2K70E	USB "The Air Horn"
7008.0	0943	18	02			F1B		200	
7030.0	0849	10	02			F1B		250	
7057.0	0900	15	02			J7D		2K70E	USB 7055.0 / CIS-12
7062.0	1728	01	02	RUS		P0N	40	14K0E	Container
7064.0	1521	05	02	RUS		P0N	40	14K0E	Container
7074.79	vt	vd	02			A1N			Continuous dashes or groups of dashes
7074.99	vt	vd	02			A1N			Continuous dashes or groups of dashes
7101.0	1523	05	02			F3N	66.7	10K0E	FMCW bursts

RSGB; Richard, G4DYA									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7122.0	1412 0833	05 12	02			F1B	50	200	
7126.0	0853	15	02			J3E			Noise centred on 7126.7 interrupted by USB voice
7140.020	0250- 0635, 1400- 1835	dly	02	ERI	VoBM1	A3E			BC. Approx times – varies daily
7155.0	1507	21	02			F3N	50	10K0E	FMCW bursts
7162.0	0900 1226	10 20	02			F1B		250	
7162.0	1455	21	02	RUS		P0N		14K0E	Container
7168.0	1509	21	02			F3N	41.7	10K0E	FMCW bursts
7172.0	1525	05	02			F3N	50	10K0E	FMCW bursts
7179.0	0857 0956	03 04	02			J7D		2K70E	USB 7177.0 / CIS-12
7180.020	0250- 0635, 1400- 1835	dly	02	ERI	VoBM2	A3E			BC. Approx. times – varies daily
7193.0	vt	vd	02			F1A/F1B	50	200	
7199.995	1058- 1258	dly	02			A3E		9K00E	BC
14026.0	0924	19	02			F3N	50	10K0E	FMCW
14032.0	0903	03	02			F3N	66.7	10K0E	FMCW bursts
14052.0	0905	17	02			F3N	66.7	10K0E	FMCW bursts
14098.0	0905	03	02			F3N	50	10K0E	FMCW bursts
14115.0	0930	02	02			F3N	50	10K0E	FMCW bursts
14116.0	0908	16	02			F3N	50	10K0E	FMCW bursts
14133.0	0944	03	02			F3N	41.7	10K0E	FMCW bursts
14154.0	0845	15	02			F3N	66.7	10K0E	FMCW bursts
14184.0	0846	15	02			F3N	66.7	10K0E	FMCW bursts
14195.0	0927	02	02				10	160KE	Radar
14216.0	0906	17	02			F3N	66.7	10K0E	FMCW bursts
14217.0	0941	05	02			F3N	62.5	10K0E	FMCW bursts
14217.0	0903	10	02			F3N	10	40K0E	FMCW radar
14221.0	0903	24	02			F3N	66.7	10K0E	FMCW bursts
14225.0	0947	03	02			F3N	41.7	10K0E	FMCW bursts
14226.0	0939	05	02			F3N	66.7	10K0E	FMCW bursts
14230.0	0900	03	02				10	160KE	Radar
14235.0	0921	16	02			F3N	66.7	10K0E	FMCW bursts
14244.0	0958	03	02			F3N	41.7	10K0E	FMCW bursts
14258.0	0830	19	02			F1B		500	
14260.0	0937	23	02			F1B	50	10K0E	FMCW bursts
14270.0	0900	02	02				10	160KE	Radar
14273.0	0956	03	02			F3N	41.7	10K0E	FMCW bursts
14285.0	0934	15	02			F3N	41.7	10K0E	FMCW bursts
14286.0	1027	08	02			F1B		500	
14287.0	0909	12	02			F3N	66.7	10K0E	FMCW bursts
14292.0	0922	10	02					400HE	Several tones spaced 50 Hz
14301.9	0821	19	02			J7D		2K80E	USB 14300.0 CIS-xx with pilot tone at 3300Hz
14300.0	0940	24	02			F3N	66.7	10K0E	FMCW bursts

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14302.0	0910	16	02			F3N	50	10K0E	FMCW bursts
14305.0	0940	24	02			F3N	66.7	10K0E	FMCW bursts
14308.0	0843	17	02			F1B		500	
14309.0	0901	17	02			F3N	50	10K0E	FMCW
14314.0	0907	10	02			F3N	50	10K0E	FMCW bursts
14315.0	0920	16	02			F3N	50	10K0E	FMCW bursts
14316.0	0908	10	02			F3N	41.7	10K0E	FMCW bursts
14325.0	0919	16	02			F3N	66.7	10K0E	FMCW bursts
14328.0	0854	12	02			F3N	66.7	10K0E	FMCW bursts
14330.0	0955	05	02	RUS		P0N	40	14K0E	Container
14341.0	0943	05	02			F3N	66.7	10K0E	FMCW bursts
14351.0	0912	16	02			F3N	50	10K0E	FMCW bursts
18072.0	1329	04	02	RUS		P0N	40	14K0E	Container
18169.0	0937	05	02			F3N	66.7	10K0E	FMCW bursts
18173.0	1021	02	02	RUS		P0N	40	14K0E	Container
21370.0	0945	16	02			F3N	50	20K0E	FMCW. Ceased at 0953z.
21430.0	0814	19	02			F3N	50	20K0E	FMCW
21438.0	vt	vd	02	RUS	RCV	A1A	~20		

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
7 MHz	0000-2400	dly	2	RUS		RADAR	40sps	13k0E	(WebSDR 26d) Kontainer
7 MHz	0600-1800	*	2	RUS		RADAR	10sps	10k0E	*) Days: 2. - 9. 12. 16. 18. 216. 28.
7 MHz	1015-1900	*	2	CHN		RADAR	50/67sps	10k0E	*) Days: 1. 5. 6. 8. 11. 12. 13. 17. 27. 'foghorn'
7 MHz	1230-1237	21	2			RADAR	50sps	20k0E	
7008.0	0630-1335	12 25	2			F1B		250H	
7012.0	1015-1555	12 16	2	RUS		F1B		250H	
7014.0	0945-1000	12	2	RUS		J7D	120	2k60E	
7028.0	1400-1410	27	2			RADAR	20sps	10k0E	
7030.0	0745-1415	*	2	RUS		F1B		250H	*) days: 9. 10. 18. 28.
7031.0	0600-1355	*	2	RUS		J3E-u		3k0E	*) days: 16. - 20. see 7056 & 7126 kHz
7039.2	1020-1530	*	2	RUS	F	A1A		20H	Beacon, *) days: 1. 3. 11. 15.
7039.3	0630-0810	*	2	RUS	K	A1A		20H	Beacon, *) days: 1. 16. 26.
7039.4	0940-1440	*	2	RUS	M	A1A		20H	Beacon, *) days: 1. 11. 15.
7044.0	1430-1440	15	2			F1B		250H	
7044.0	0815-0945	16	2			F1B		500H	
7054.0	1130-1145	6 11	2	RUS		F1B		200H	

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
7056.0	0600-1414	*	2	RUS		J3E-u		3k0E	*) days: 2. - 5. 21. - 25. see 7031 & 7126 kHz
7062.0	0630-0710	10	2	RUS		F1B		250H	
7079.0	0630-0820	7 10	2	RUS		F1B		250H	
7089.0	0800-1200	10 13	2	RUS		J7D	120	2k60E	Also J3E-u on 7087 kHz
7101.0	0700-0750	12	2			N0N			
7118.0	0920-0940	6	2	RUS		F1B		400H	
7122.0	0630-1445	*	2	RUS	RDL	F1B/A N0N		200H	*) Days: 2. 3. 6. 10. 11. 12. 15. 17. 27.
7126.0	0600-1405	*	2	RUS		J3E-u		3k0E	*) days: 11. - 15. see 7031 & 7056 kHz
7139.5	0730-0748	16	2	RUS		F1B		200H	
7140.0	0445-0700	dly	2	ERI	VoBM	A3E		9k0	
7140.0	1345-1840/	dly	2	ERI	VoBM	A3E		9k0	
7142.0	1050	15	2	RUS		F1B		250H	
7159.0	1415-1430	11	2	RUS		F1B		250H	
7162.0	0815-1300	*	2	RUS		F1B		250H	*) days: 7. 10. 21. 27.
7164.0	0930-1130	5 17	2	RUS		J7D	120	2k60E	
7167.0	0830-1545	*	2	RUS		F1B		250H	*) days: 5. 7. 15. 21.
7170.0	0800-1130	16	2	RUS		F1B		200H	
7170.0	1355	18	2			J7D	120	2k60E	
7177.0	0700-1930	20 24	2			A1A		250H	25 Hz dotter
7179.0	1245-1430	3	2	RUS		F1B		200H	
7179.0	0445-1900	*	2	RUS		J7D	120	2k60E	*) days: 3. 4. 27.
7180.0	0445-0700	*	2	ERI		A3E		9k0	*) Days: 1. - 13. 15. - 25. 27. - 31.
7180.0	1345-1840	*	2	ERI		A3E		9k0	*) Days: 1. - 13. 15. - 25. 27. - 31.
7188.0	0855	3	2	RUS		J5D	120	2k60E	
7193.0	0830-1500	*	2	RUS		F1A/B/N0N		200H	*) Days: 1. 4. 5. 6. 8. 9. 11. 14. 15. 16. 18. 19.
7200.0	0630	28	2	RUS		J7D	120	2k60E	
7200.0	1058-1300	dly	2	TWN	National Unity R.	A3E		9k0	Korean px
10 MHz	0550-0750	10 17	2	CYP		RADAR	50sps	20k0	(WebSDR 8d)
10 MHz			2	RUS		RADAR	40sps	13k0E	(WebSDR 6d) Kontainer
10 MHz	0620	26	2			RADAR	10sps	10k0E	

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
14 MHz	1145-1300	22	2	RUS		RADAR	40sps	13k0E	(WebSDR 7d) Kontainer
14 MHz	0600-0930	*	2	RUS		RADAR	10sps	10k0E	*) Days: 5. 6. 15. 27.
14 MHz	0600-1100	*	2	CHN		RADAR	50/67sps	10k0E	*) Days: 1. 3. 5. - 13. 15. - 19. 23. 25. 26. 27. 'foghorn'
14 MHz	0620-0930	*	2	CHN		RADAR	10sps	160k0	*) days: 3. 4. 6. 9. 11. 12. 18. 20.
14 MHz	0600-0900	*	2			RADAR	50sps	10k0E	*) days: 17. 19. 23.
14 MHz	0800-0955/	10	2			RADAR	10sps	40k0E	
14116.0	0910-0920	5	2			J7D	120	2k60E	
14221.0	0455-0600	4 21	2	KAZ		F1B		200H	
14302.0	0905	19	2			J7D	120	2k60E	
14308.0	0905	19	2	RUS		F1B		500H	
18 MHz	0845-1420	*	2	CYP		RADAR	50sps	20k0	*) Days: 4. 11. 13. 20. 21. (WebSDR 6d)
18 MHz	0930-1215	9 21	2	RUS		RADAR	40sps	13k0E	(WebSDR 2d) Kontainer
18 MHz	1045-1315	2	2			RADAR	10sps	70k0E	
18 MHz	0630-0900	19 23	2	CHN		RADAR	50/67sps	10k0E	'foghorn'
21 MHz	0620-1250	*	2	CYP		RADAR	50sps	20k0	*) Days: 6. 12. 16. 18. 25. (WebSDR 12d)
21 MHz	1230-1245	1	2	RUS		RADAR	40sps	13k0E	(WebSDR 3d) Kontainer
21438.0	/0830-1300	*	2	RUS	RCV	A1A	20 wpm	20H	*) Days: 1. 2. 10. 12. 16. - 19.
28860.0	0900-1130	2 6	2	IRN		RADAR	*	60k0E	*) 150 & 313sps
29590.0	0950	2	2	IRN		RADAR	307	60k0E	
29600.0	0945-1035	16	2	IRN		RADAR	312 sps	60k0E	

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6997	1853	04	02			RADAR	40	12K0E	OTHR Contayner
7000	1611	13	02			XXX		ca 3K0E	Digital bursts
7000	1814	20	02			J3E-U			UI st talking. Male voices. Asian lang.
7000	1758	21	02			J3E-U			UI sts Talking. Male voices. Arabic lang.
7004	1828	20	02			RADAR	40	12K0E	OTHR Contayner
7007	1621	05	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7010	1636	03	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7010	1659	21	02			J3E-L			UI sts talking. Male voices. Asian lang.
7012	1557	16	02			F1B	75	250H	
7014	1559	17	02			RADAR	41.6	10K0E	Short bursts. "Foghorn"
7015	1646	15	02			RADAR	40	12K0E	OTHR Contayner
7016	1919	14	02			RADAR	40	12K0E	OTHR Contayner

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7020	1840	15	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7021	1722	06	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7029	1907	09	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7032	1753	21	02			RADAR	41.6	10K0E	Short bursts. "Foghorn"
7033	1907	04	02			RADAR	41.6	10K0E	Short bursts. "Foghorn"
7035	1901	08	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7037	1909	04	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7047	1808	17	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7050	1557	03	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7051	2038	06	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7055	0702 vt	08 vd	02			J3E-L			Speech, music, loops, insults, propa- ganda. UKR/RUS "radiowar. Often
7058	2027 vt*	01 vd*	02			RADAR	40	12K0E	OTHR Contayner. *Also on 15/02, 1903 UTC. 27/02, 1904 UTC
7060	0659	26	02			J3E-L			Speech, loops, propaganda, UKR/ RUS "radiowar"
7061	1553	22	02			RADAR	40	12K0E	OTHR Contayner
7062	0820	03 vd*	02			J3E-U			Numbers st "S06s". RUS lang. Female voice. USB + carrier. TX ends at 0835 UTC.*Every Wednesday
7062	1822	09	02			RADAR	40	12K0E	OTHR Contayner
7063	1741	21	02			RADAR	40	12K0E	OTHR Contayner
7064	1610 vt*	05 vd*	02			RADAR	40	12K0E	OTHR Contayner. *Also on 08/02, 1905 UTC
7064	1922	16	02			RADAR	40	12K0E	OTHR Contayner. 2 simultaneous TX on 40m: 7064 + 7108 kHz
7065	1547	15	02			RADAR	40	12K0E	OTHR Contayner
7074.4	1756 vt	02 vd	02			A1N			CW. Series of 16 dashes. *Also on 05/02, 1617 UTC (Continuous dashes)
7074.8	0726 vt	02 vd	02			A1N			CW. Series of 16 dashes. Often
7075	0949 vt	03 vd	02			A1N			CW. Series of 16 dashes. Often
7085	1801	01	02			RADAR	40	12K0E	OTHR Contayner
7087	1721	26	02			RADAR	40	12K0E	OTHR Contayner
7088	2159	15	02			RADAR	40	12K0E	OTHR Contayner
7095	1609	03	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7096	1654	21	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7099	1932	19	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7100	1847	02	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7101	1626	05	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7102	1713	05	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7102	1440	09	02			F1B	75	250H	
7102	1827	22	02			RADAR	40	12K0E	OTHR Contayner
7105	1743	06	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7105	1835	26	02			RADAR	40	12K0E	OTHR Contayner
7107	1916 vt*	10 vd*	02			RADAR	40	12K0E	OTHR Contayner. *Also on 17/02, 1835 UTC
7108	2310 vt*	vd*	02			RADAR	40	12K0E	OTHR Contayner. *Also on 18/02, 2125 UTC
7108	1922	16	02			RADAR	40	12K0E	OTHR Contayner. 2 simultaneous TX on 40m: 7108 + 7064 kHz
7109	2136	09	02			RADAR	40	12K0E	OTHR Contayner. *Also on 11/021741

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
	vt*	vd*							UTC
7109	2038	11	02			RADAR	40	12K0E	OTHR Contayner
7109.6	1623	16	02			G7D	60	2K50E	CHN30
7111	1703 vt*	16 vd*	02			RADAR	50	10K0E	Short bursts. "Foghorn". *Also on 18/02, 2017 UTC
7112	1800	17	02			RADAR	40	12K0E	OTHR Contayner
7118	1834	09	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7118	1735	15	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7120	1640	21	02			RADAR	41.6	10K0E	Short bursts. "Foghorn"
7121	1841	14	02			RADAR	40	12K0E	OTHR Contayner. 2 simultaneous TX on 40m: 7121 + 7016 kHz
7122	1750	21	01			RADAR	40	12K0E	OTHR Contayner
7123	1715	13	02			RADAR	40	12K0E	OTHR Contayner
7124	1750	03	02			RADAR	40	12K0E	OTHR Contayner
7124	1610	22	02			RADAR	40	12K0E	othr contayner. 2 simultaneous TX on 40m: 7124 + 7061 kHz
7125	1823 vt*	07 vd*	02			RADAR	40	12K0E	OTHR Contayner. *Also on 13/02, 1801 UTC
7126.7	0730 vt*	12 vd*	02			XXX		ca 2K0E	UI digital signal. Several carriers. Spacement = 50 Hz. Also on 13, 14, 15/02. Morning hours. Long-lasting
7127	1613	03	02			RADAR	40	12K0E	OTHR Contayner
7127	1942	23	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7128	1724	05	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7128	0730 vt*	12 vd*	02			XXX		ca 3K0E	UI digital signal. Long-lasting. *Also on 13/02, 0738 UTC
7129	1759	19	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7131	1837 vt*	02 vd*	02			RADAR	66.66	10K0E	Short bursts. "Foghorn". *Also on 13/02, 1955 UTC
7132	1542	03	02			RADAR	40	12K0E	OTHR Contayner
7134	1746	11	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7136	1901	02	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7137	2026	10	02			RADAR	40	12K0E	OTHR Contayner. 2 simultaneous TX on 40m: 7137 + 7184 kHz
7137	1910	15	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7139.5	0747	16	02			F1B	50	200H	
7140.02	1614 vt	05 vd	02			A3E			AM. BC "VoBM1". Daily
7143.3	1749	19	02			G7D		2K50E	CHN 30 aka PRC 30
7144	1802	05	02			RADAR	40	12K0E	OTHR Contayner
7146	1954	13	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7147	1629	03	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7148	1956	24	02			RADAR	40	12K0E	OTHR Contayner
7150	1750	28	02			RADAR	40	12K0E	OTHR Contayner
7151	1937	23	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7160	1940	23	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7156	1743	11	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7157	1746	06	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7162	1748	15	02			RADAR	40	12K0E	OTHR Contayner
7166	1835	02	02			RADAR	41.6	10K0E	Short bursts. "Foghorn"
7168	1718	02	03			RADAR	40	12K0E	OTHR Contayner
7168	0727	16	02			F1B		250H	
7170	0809	16	02			F1B		200H	

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7171	1618 vt*	15 vd*	02			RADAR	40	12K0E	OTHR Contayner. *Also on 17/12, 1912 UTC
7173	2021	24	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7174	1628	03	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
7177	1630	13	02			RADAR	40	12K0E	OTHR Contayner
7178	2209	13	02			RADAR	40	12K0E	OTHR Contayner
7179	0741 vt	03 vd*	02			J7D	120	2K60E	CIS-12. With a carrier at 7177.32 kHz. All day long. *Also on 04/02. 27/02, 0826 UTC
7180	1643	2102				RADAR	50	10K0E	Short bursts. "Foghorn"
7180.02	1615 vd	05 vt	02			A3E			AM. BC. "VoBM2". Daily
7182	1652	21	02			RADAR	50	10K0E	Short bursts. "Foghorn"
7183	1946	13	02			RADAR	40	12K0E	OTHR Contayner
7184	2026	10	02			RADAR	40	12K0E	OTHR Contayer. 2 simultaneous TX on 40m: 7184 + 7137 kHz
7187	1556	17	02			RADAR	40	12K0E	OTHR Contayner
7188	1650 vt*	02 vd*	02			RADAR	40	12K0E	OTHR Contayner. Also on 06/02, 1550 UTC. 26/02, 1937 UTC
7197.5	1838	17	02			XXX		ca 1K0E	Continuous & long - lasting
7198	1525	08	02			J7D	120	2K60E	CIS-12
7205	1948 vt	13 vd	02			A3E			BC. "RFI": splatter to 7192 kHz. Often
14000	0909	09	02			NON			Carrier. Long-lasting.
14001.5	0719	08	02			XXX	2400	2K40E	ISR Navy hybrid modem
14011	0931	01	02			F1B		250H	
14011.3	0826	16	02			F1B		500H	
14017	0800	06	02			RADAR	50	10K0E	Short bursts. "Foghorn"
14026	0753	19	02			RADAR	50	10K0E	OTHR. Long - lasting
14045.5*	0733 vt	03 vd	02			XXX		ca 2K0E	Broken sys. Drifting. *Often around 14045.5 kHz CF
14046	0755	05	02			RADAR	50	20K0E	Short bursts. "Foghorn"
14052	0819 vt*	03 vd*	02			RADAR	66.66	10K0E	Short bursts. "Foghorn". *Also on 17/02, 0658 UTC
14053	0955	21	02			RADAR	40	12K0E	OTHR Contayner
14056	0835	15	02			RARAR	66.66	10K0E	Short bursts. "Foghorn"
14064	0756	06	02			RADAR	50	10K0E	Short bursts. "Foghorn"
14086	0813	17	02			J7D	120	2K60E	CIS-12
14086	1032	23	02			RADAR	50	10K0E	Short bursts. "Foghorn"
14088	0824	19	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14089	0730	19	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14099	0827	06	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14113	0801	24	02			RADAR	10	40K0E	OTHR
14115	0825	09	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14116	0753	16	02			RADAR	50	10K0E	Short bursts. "Foghorn"
14117.9	0752	05	02			J7D	120	2K60E	CIS-12
14123	0846	03	02			RADAR	50	10K0E	Short bursts. "Foghorn"
14123	0754	12	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14126	0705	05	02			RADAR	50	10K0E	Short bursts. "Foghorn"
14127	0749	12	02			RADAR	50	10K0E	Short bursts. "Foghorn"
14139	0818	03	02			RADAR	41.6	10K0E	Short bursts. "Foghorn"
14152	0711	08	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14154	0819	15	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14160	0734	04	02			RADAR	10	160KOE	Wideband OTHR. Alternating TX on 14173 kHz CF. BD 50 sec. BRI = 1.5 min
14167	0824	06	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14170	0700	17	02			RADAR	40	12KOE	OTHR Contayner
14170	0618	22	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14173	0734	04	02			RADAR	10	160KOE	Wideband OTHR. Alternating TX on 14160 kHz CF. BD 50 sec. BRI = 1.5 min
14175	0915	20	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14180	0925	01	02			RADAR	10	160KOE	Wideband OTHR
14180	0720	05	02			RADAR	40	12KOE	OTHR Contayner
14183	0754	15	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14184	0818	15	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14186	0819	04	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14186	0747	06	02			RADAR	40	12KOE	OTHR Contayner
14186	0726 vt*	15 vd*	02			F1B	50	500H	*Also on 19/02, 0808 UTC
14188	0726	03	02			RADAR	40	12KOE	OTHR Contayner
14189*	0900	10	02			RADAR	40	ca 12KOE	OTHR. Short TX (1-3 min) & Fast QSY. *Affected CF QRG 14182, 14192,14200, 14190, 14171 kHz
14189	1038	12	02			RADAR	40	12KOE	OTHR Contayner
14192	0820	05	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14192	0836	05	02			RADAR	40	12KOE	OTHR Contayner
14198	0759	21	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14200	0912	02	02			RADAR	10	160KOE	Wideband OTHR. Alternating TX in 14200 and 14275 kHz. BD ca 50 sec. BRI ca 1.5 min
14200	0817	05	02			RADAR	40	12KOE	OTHR Contayner
14204	0905	09	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14204	0704	26	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14211	0821	28	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14217	0758 vt*	05 vd*	02			RADAR	66.66	10KOE	Short bursts. "Foghorn". *Also on 09/02, 0825 UTC. 17/02, 0817 UTC
14217	0810	10	02			RADAR	10	40KOE	OTHR. Long - lasting
14220	0832	20	02			J7D		2K6OE	CIS-12. Idling
14220	0726	24	02			RADAR	10	40KOE	OTHR
14221	0900	24	02			RADAR	66.66	10KE	Short bursts. "Foghorn"
14224	0739	12	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14224	0813	19	02			RADAR	41.6	10KOE	Short bursts. "Foghorn"
14225	0946	03	02			RADAR	41.6	10KOE	Short bursts. "Foghorn"
14226	0937	12	02			RADAR	41.6	10KOE	Short bursts. "Foghorn"
14228	0712	17	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14230	0831	03	02			RADAR	10	160KOE	Wideband OTHR
14231	0752	03	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14231	0809	05	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14240	0850	23	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14243	0755	23	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14244	0718	25	02			RADAR	10	160KOE	Wideband OTHR.
14246	0731 vt*	02 vd*	02			RADAR	50	10KOE	Short bursts. "Foghorn". *Also on 08/02, 0714 UTC
14248	0833	09	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14248	1010	14	02			RADAR	10	160KOE	Wideband OTHR
14258	0715 vt*	15 vd*	02			F1B	50	500H	*Also on 19/02, 0750 UTC
14248.5	0708	08	02			F1B	600	600H	DPRK-FSK 600 ARQ
14254	0613	22	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14255	0758	20	02			RADAR	50	10KOE	OTHR. Long - lasting
14259	0913	09	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14260	0813	23	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14260	0820	23	02			RADAR	50	10KOE	OTHR. Long - lasting
14261	0833	08	02			RADAR	50	10k0e	OTHR. Long - lasting
14267	0730	02	02			RADAR	50	10KOE	OTHR. Long - lasting
14267	0809	03	02			RADAR	10	160KOE	Wideband OTHR
14270	0749	06	02			J7D		2K60E	CIS-12. Idling.
14271	0643	22	02			RADAR	50	10KOE	OTHR. Long - lasting
14273	0954	03	02			RADAR	41.6	10KOE	Short bursts. "Foghorn"
14275	0905	02	02			RADAR	10	160KOE	Wideband OTHR
14285	0729	11	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14286	0731 vt*	05 vd*	02			RADAR	20	10KOE	OTHR. Also on 06/02, 0807 UTC
14286	0821	28	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14287	0909	12	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14288	0901	01	02			RADAR	41.6	10KOE	Short bursts. "Foghorn"
14289	0755	19	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14289	0849	19	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14290	0756	15	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14291	0934	27	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14292	0843	10	02			XXX		ca 500H	UI digital signal. Long-lasting
14293	0738	15	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14294	0733	19	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14295	0828 vt*	02 vd*	01			RADAR	66.66	10KOE	Short bursts. "Foghorn". *Also on 08/06, 0724 UTC
14298	0952	03	02			RADAR	41.6	10KOE	Short bursts. "Foghorn"
14298	0952	13	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14299	0934	21	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14300	0724	05	02			RADAR	10	160KOE	Wideband OTHR
14300	0823	05	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14301.9	0719	03 vt*	02 vd*			W7D		2K80E	OFDM. *Also on 04/03, 0743 UTC. 19/02, 0728 UTC
14302	0801	05	02			RADAR	40	12KOE	OTHR Contayner
14302	0804	06	02			RADAR	10	160KOE	Wideband OTHR
14302	0759	16	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14303	0845	13	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14304	0955	13	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14305	0724 vt*	10 vd*	02			RADAR	66.66	10KOE	Short bursts. "Foghorn". *Also on 21/02, 0933 UTC
14305	1032	23	02			RADAR	50	10KOE	Short bursts. "Foghorn"
14307	0818	09	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14308	0820 vt*	02 vd*	02			F1B	75	500H	*Also on 08/02, 0734 UTC. 19/02, 0856 UTC
14309	0740	11	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14309	0655	17	02			RADAR	50	10KOE	OTHR. Long - lasting
14310	0707	26	02			RADAR	66.66	10KOE	Short bursts. "Foghorn"
14311	0737	12	02			RADAR	50	10KOE	Short bursts. "Foghorn"

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14313	0853	20	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14316	0905	10	02			RADAR	50	10K0E	Short bursts. "Foghorn"
14317	0736	19	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14320	0936	09	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14322	0815 vt*	06 vd*	02			RADAR	66.66	10K0E	Short bursts. "Foghorn". *Also on 08/02, 0727 UTC
14323	0901	09	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14323	0842	17	02			RADAR	50	10K0E	Short bursts. "Foghorn"
14325	0846	24	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14326	0747	15	02			RADAR	10	160K0E	Wideband OTHR
14332	0801	03	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14335	0812	25	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14337	0731	23	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14340	0758	14	02			RADAR	10	160K0E	Wideband OTHR.
14328	0739	25	02			RADAR	10	160K0E	Wideband OTHR
14342	0757	12	02			RADAR	10	160K0E	Wideband OTHR
14345	0803	05	02			RADAR	50	10K0E	Short bursts. "Foghorn"
14345	0931	21	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14348	0940	09	02			RADAR	50 66	10K0E	Short bursts. "Foghorn". Alternating sps
14351	0822	13	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
14358*	0858	25	02			RADAR	10	160K0E	Wideband OTHR. *14278 to 14350 kHz affected
14377*	0853	12	02			RADAR	10	160K0E	Wideband OTHR. *14297 to 14350 kHz affected
14373*	0940	12	02			RADAR	10	160K0E	Wideband OTHR. Alternating TX on 14383 kHz CF. BD 50 sec. BRI 1.5 min. *14293 to 14350 kHz affected.
14383*	0939	12	02			RADAR	10	160K0E	Wideband OTHR. Alternating TX on 14373 kHz CF. BD 50 sec. BRI 1.5 min. *14303 to 14350 kHz affected
14395*	0822	28	02			RADAR	10	160K0E	Wideband OTHR. *14315 to 14350 kHz affected.
14398*	1130	24	02			RADAR	10	160K0E	Wideband OTHR. *14318 to 14350 kHz affected.
14407*	0814	09	02			RADAR	10	160K0E	Wideband OTHR *14327 to 14350 kHz affected
18080.9	0819	06	02			J3E-U			Fishery. Male voices. Arabic lang
18085	0828	05	02			RADAR	20	10K0E	OTHR
18109.17	1630	05	02			A3E			AM. BC. Arabic lang. Music and speech.
18123	0905	19	02			RADAR	50	10K0E	Short bursts. "Foghorn"
18135	0843	20	02			RADAR	66.66	10K0E	Short bursts. "Foghorn"
18149	0929	09	02			RADAR	40	12K0E	OTHR Contayner
18170	1154	04	02			RADAR	25	20K0E	OTHR Pluto
18170	0854	13	02			RADAR	50	20K0E	OTHR Pluto
18171	0837	12	02			RADAR	25	20K0E	OTHR Pluto
18175	0956	19	02			RADAR	50	20K0E	OTHR Pluto
21150	1045	16	02			J3E-U			Non-amateur comms. RUS lang. Male voice. Long - lasting
21150	1045	16	02			XXX		ca 3k50E	Ui signal. Carriers, spacement = 100 Hz. Long - lasting
21164	1217	16	02			RADAR	40	12K0E	OTHR Contayner

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21165	0943	04	02			RADAR	40	12K0E	OTHR Contayner
21170	0743	11	02			RADAR	25	20K0E	OTHR Pluto
21170	0722	20	02			RADAR	50	20K0E	OTHR Pluto
21271	0841	20	02			RADAR	50	20K0E	OTHR Pluto
21330	1033	16	02			RADAR	50	20K0E	OTHR Pluto
21365	0815	04	02			RADAR	50	20K0E	OTHR Pluto
21370	0939	21	02			RADAR	50	20K0E	OTHR Pluto
21430	0818 vt*	19 vd*	02			RADAR	50	20K0E	OTHR Pluto. *Also on 20/02, 0847 UTC
21438	0831 vt	02 vd	02		RCV	A1A	19		"RCV" QTCs. Daily
21450	1031	16	02			RADAR	50	20K0E	OTHR Pluto
28860	1037	16	02			RADAR	150 313	ca 45K0E	OTHR

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
7000.0	1816	03	02			J3E-U		2k10E	Fishery
7001.4	2256	03				J3E-L			unid language, sounds asian
7021.0	0908	02	02			J7D	12x120Bd	2k70E	CIS12; BPSK or QPSK
7030.0	0854	10	02			F1B		250H	
7053.0	1821	03	02			Radar	50 sps	10k0E	OTHR
7054.0	1654	01	02			F1B	50 Bd	200H	
7055.0	1120	09	02			J3E-L		2k80E	Russian-Ukraininen Radio war daily
7059.0	1549	01	02			FMOP	40 sps	12k0E	OTHR; Contayner
7060.0	2256	01	02			FMOP	40 sps	12k0E	OTHR; Contayner
7064.0	2306	08	02			FMOP	40 sps	12k0E	OTHR; Contayner
7108.0	1457	02	02			FMOP	66.66 sps	10k0E	OTHR, Foghorn
7140.0	1438	01	02	ERI	VOBM 1	A3E		ca 9k0E	BC: Voice of the broad Masses 1 daily
7147.0	1545	01	02			FMOP	66.66 sps	10k0E	OTHR; Foghorn
7179.0	1124 0904	03 04	02			J7D	12x120Bd	2k70E	CIS12
7180.0	1439	02	02	ERI	VOBM2	A3E		ca. 9k0E	BC: Voice of the broad Masses 2, often
7193.0	1004 1115	04 09	02		RDL	F1A		200H	CW-FSK almost daily
7193.0	1007 1123 0925 10	04 09 10	02		RDL	F1B	50	200H	almost daily
7193.1	0925	10	02			A1N		ca 10H	Jammer; dots only, stupid and illegal
7200.0 (7199.995)	1237 1117	02 09	02			A3E		ca 9k0E	BC, Asian language; daily
10109.0 LSB	1520	01	02	CHN		PSK-4	30x60Bd	ca 2k50E	CHN30 (PRC30); Burst system; tone spacing 75 Hz; Preamble 4x PSK4 60Bd, spacing 600Hz; Pilot tone at 450Hz
14173.0	0954	04	02			Radar	10 sps	160k0E	OTHR
14179.0	0929	01	02			Radar	10 sps	160k0E	OTHR
14195.0	1028	02	02			Radar	10 sps	160k0E	OTHR
14217.0	0907	10	02			FMCW	10 sps	40k0E	OTHR
14231.0	0936	03	02			Radar	10 sps	160k0E	OTHR
14286.0	0747	05	02			Radar	20 sps	10k	OTHR
14292.0	0902	10	02			XXX		ca. 550H	unid signal, every 50Hz a peak

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD / sps	SH / BW	DETAILS
14302.0	1002	03	02			OFDM 60		2k80E	tone spacing. Pilot tone at 3300Hz
18149.0	1009	09	02			FMOP	40 sps	12k0E	OTHR; Contayner
21165.0	0947	04	02			FMOP	40 sps	12k0E	OTHR; Contayner; strong fading
21438.0	0936	01	02		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	2015	08	02	CIS		F1B			Revs/UiPtr
3548.0	2000	23	02	CIS		F1B			Revs/UiPtr
3565.0	1945	16	02			RADAR		55K0E	CF; weak; reported by PA0SIM
3656.9	2019	08	02	RUS	V	A1A			V-beacon
3675.0	1952	23	02			F1B			UiPtr
3731.0	1823	13	02	UKR/ RUS		J3E-L			Political slogans in loop
3731.0	1931	28	02	UKR/ RUS		J3E-L			Russian/Ukrainian radiowar now also on 80m
3796.0	2033	08	02	CIS	7K9E	A1A			7K9E QTC 226 40 8 2320 226 = VENON 5BL
3796.0	2103	23	02	CIS	Q6P3	A1A			R 476 K
7055.0	vt	vd	02	UKR/ RUS		J3E-L			Political slogans; radiowar; sometimes 2TX
14084.0	1047	17	02			F1B		250	UiPtr
14190.0	0945	11	02			RADAR			OTHR
14291.0	1015	10	02			PSK2			12 MPSK F1A:10090 99900
14307.0	0907	19	02			A1A			Carrier, NON
21438.0	1050	16	02	RUS	RCV	A1A			RIP90 de RCV QTC 358 194 13 1442 358 NAWAREA 032 41 KARTY 32202
21438.0	1103	16	02	RUS	RCV	A1A			RBE86 de RCV QTC 730 59 13 0012 730 = NAWAREA 038 39 KARTA 32214

Many thanks to all our valued helpers.

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