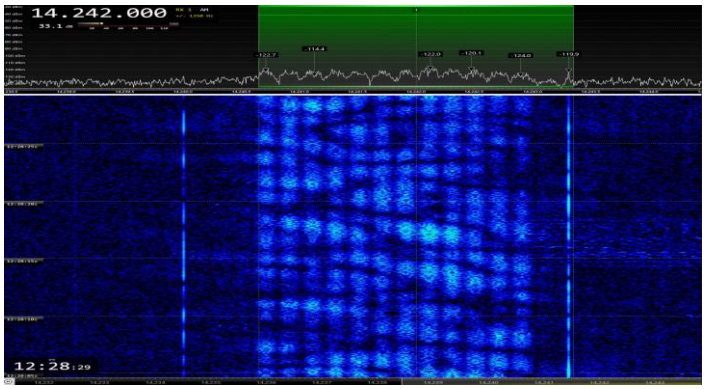
IARU Monitoring System Region 1

Monthly Newsletter - July 2022

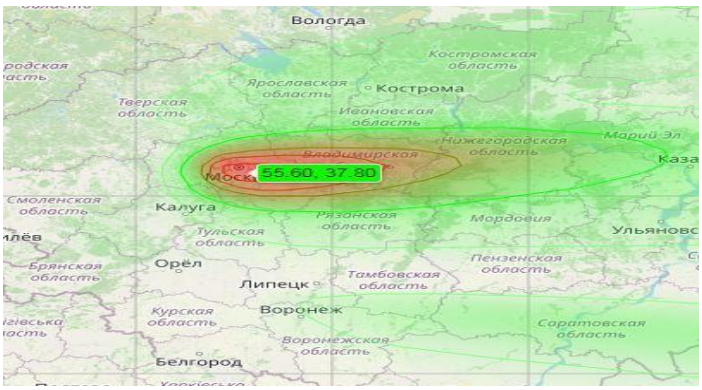
News and info

In July, like every month since many years, the Over The Horizon radars were the most numerous transmissions that caused big harm to our amateur radio bands on HF. The front runner was the RUS Contayner (BW = 12K0E; 40 sps), received in all bands from 40 to 12 m. The CHN OTHRs sending short bursts (BW = 10K0E; 41.7, 50, 66.7 and 83.3 sps) were also very active and were mostly observed on the 20 m and 15 m bands.

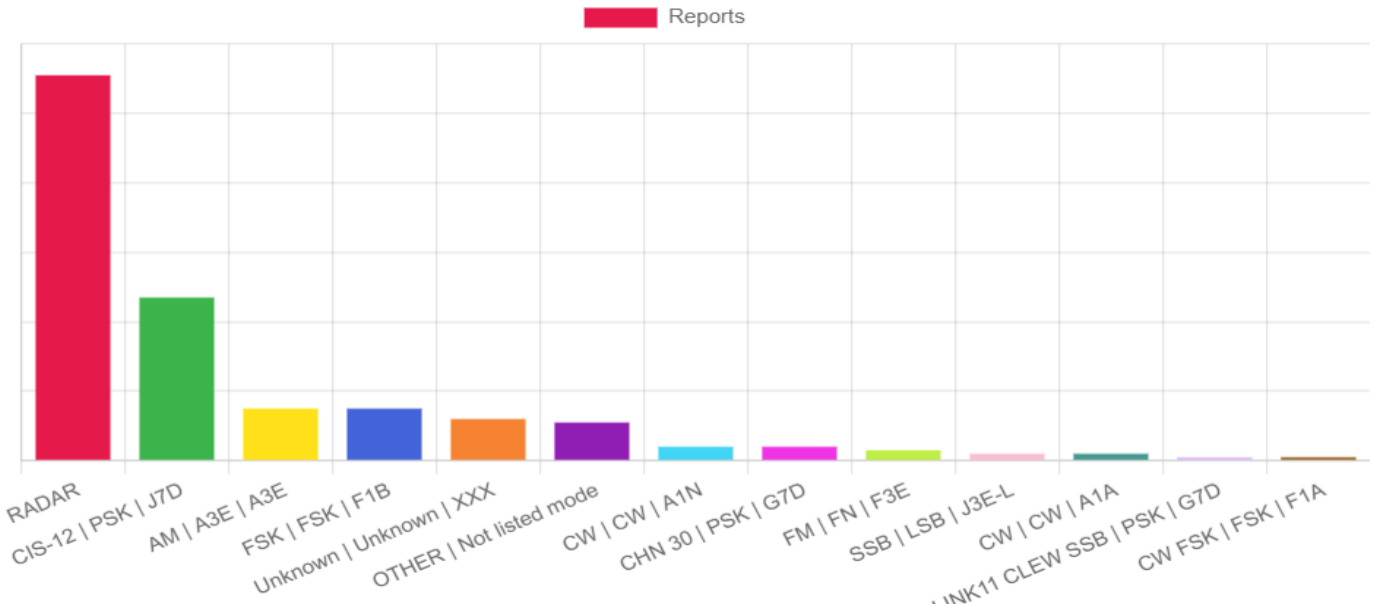
We also observed many CIS-12 transmissions, some of them being long-lasting and transmitted daily on the same frequency, as for instance the one sent on 7000 kHz CF. TDoA showed RUS, concretely the area of Moscow (TNX DK2OM).



CIS-12 on 20 m (BW = 2K70E; 12 x 120 bd + pilot line at 3300 Hz)



CIS-12. 7000 kHz CF. TDoA: RUS. 22 - 07 -2022, 2020 UTC. (TNX DK2OM)



Detailed reports of national coordinators

Abbreviations used (as per IARUMS definitions)

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 exact mode unknown **SH** = Shift (Hz) | **sps** = sweeps per second | **TDoA** = Time difference of arrival | **ui** = **unid** = unidentified.

DARC; Daniel, DL3RTL. Credit to monitors: DL2SCH, Jürgen; F4FPR, Benjamin; DF9PL, Volker; DL6NBC, Harry; DL4HG, Olaf; DC7RF, Robert; DO1LR, Christian; DB3TA, Alex

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6999,8	vt	vd	07	RUS		PSK		2k4	CIS-12
7001,7	1847	01	07			FSK		400	unid FSK bursts
7020,0	1626	23	07					2k2	unid
7049,0	2126	19	07					3k	unid
7050,0	1905	27	07					17k	unid
7055,0	2050	19	07	RUS		J3E-L		2k8	RUS/UKR radio war
7057,3	1444	09	07			A1N			continous dashes without ID
7059,8	0656	31	07	RUS		PSK		2k4	CIS-12
7062,0	0037	21	07	RUS		FMOP	40	12k	OTHR Contayner
7085,0	2126	19	07	RUS		FMOP	40	12k	OTHR Contayner
7094,0	2126	19	07	RUS		FMOP	40	12k	OTHR Contayner
7100,0	ad	dly	07				50	48k	OTHR 40,8s burst every 5 min
7110,0	vt	vd	07	ETH		A3E		9k	Radio Ethiopia
7110,2	1745	22	07					7k	unid
7141,0	2126	19	07	RUS		FMOP	40	12k	OTHR Contayner
10116,0	1833	20	07	RUS		FMOP	40	12k	OTHR Contayner
10119,0	1916	20	07	RUS		FMOP	40	12k	OTHR Contayner
10146,0	1915	20	07	RUS		FMOP	40	12k	OTHR Contayner
10150,0	1836	20	07	RUS		FMOP	40	12k	OTHR Contayner
14050,0	1932	18	07	RUS		FMOP	40	12k	OTHR Contayner
14105,0	1112	24	07	RUS		FMOP	40	12k	OTHR Contayner
14131,0	1152	17	07			J3E-U		10k	music, propaganda
14137,0	1202	17	07			J3E-U		10k	music, propaganda
14140,0	1700	16	07	RUS		FMOP	40	12k	OTHR Contayner
14149,0	1505	23	07	RUS		FMOP	40	12k	OTHR Contayner
14152,5	1121	17	07			J3E-U		3k5	music
14155,0	1211	17	07			J3E-U		6k	propaganda, female voice
14155,0	1744	20	07	CHN		FMCW	66,67	10k	OTHR 3,8s bursts
14157,0	1854	27	07	RUS		FMOP	40	12k	OTHR Contayner
14181,0	1616	22	07	RUS		FMOP	40	12k	OTHR Contayner
14184,0	1450	20	07	RUS		FMOP	40	12k	OTHR Contayner
14187,0	1854	27	07	RUS		FMOP	40	12k	OTHR Contayner
14188,0	1120	29	07	RUS		FMOP	40	12k	OTHR Contayner
14189,0	1915	03	07	RUS		FMOP	40	12k	OTHR Contayner
14192,8	1241	17	07	RUS		PSK		2k4	CIS-12
14282,0	1933	18	07	CHN		FMCW	66,67	10k	OTHR 3,8s bursts
14298,0	1744	20	07	CHN		FMCW	50	10k	OTHR 5,1s bursts

DARC; Daniel, DL3RTL. Credit to monitors: DL2SCH, Jürgen; F4FPR, Benjamin; DF9PL, Volker; DL6NBC, Harry; DL4HG, Olaf; DC7RF, Robert; DO1LR, Christian; DB3TA, Alex

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14317,0	1302	24	07	RUS		FMOP	40	12k	OTHR Contayner
14339,0	1625	20	07	CHN		FMCW	66,67	10k	OTHR 3,8s bursts
14344,0	1507	23	07	RUS		FMOP	40	12k	OTHR Contayner
21145,0	0820	26	07	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21388,0	1026	24	07	RUS		FMOP	40	12k	OTHR Contayner
28860,0	0702	31	07	IRN			150/313	45k	Iranian OTHR 9,97/7,19s bursts

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3680	2155	11	7	RUS / UKR		LSB			Anti Russian songs. Very strong signal. Persistent.
3740	1400	17	7	E or MM		USB			Spanish fishermen chatting. Medium signals.
3755	2030	30	7			LSB			Howling wolves. Strong signal, persistent.
7001.5	2140	26	7			PSK			Huge signal, persistent. Also heard on 28th at 1115z.
7043	2250	26	7			RADAR			Radar from 7043 to 7067 kHz. Huge and persistent.
7050	2215	12	7			RADAR			Radar from 7050 to 7074 kHz. Strong and persistent.
7050	1140	4	7	RUS / UKR		LSB			Russian-Ukrainian radio war. “Russki pederatski”. Strong signal, every day all day long.
7055	2120	22	7	RUS / UKR		LSB			Russian-Ukrainian radio war. “Russki fascisti”. Strong and persistent signal.
7060	1530	11	7	RUS / UKR		LSB			Russian-Ukrainian radio war. “Putin khyilo”. Strong and persistent.
7061.5	630	31	7			PSK			Very strong. Persistent.
7110	1630	28	7	ETH		AM			Radio Ethiopia. Nearly daily with a weak to medium signal.
7112.5	1425	26	7			PSK			Medium signal, persistent.
7115	1620	6	7			LSB			Loud pop music, Italian style. On and off.
14000	1357	17	7	CHN		AM			China Radio International. Mixing product. Nearly daily between 1357 and 1658z with a weak to medium signal.
14130	1400	30	7			RADAR			Radar from 14130 to 14158 kHz. Medium persistent signal.
14130	1415	26	7			RADAR			Radar from 14130 to 14144 kHz. Strong and persistent.
14140	1240	31	7			RADAR			Radar from 14140 to 14152 kHz. Medium and persistent signal.

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14175	1105	18	7	RUS / UKR		USB			Russian-Ukrainian radio war. Huge signal. Loud music and propaganda. “Katsapi”. Persistent. Also noted on the 11th at 1115.
14182	845	28	7			RADAR			Radar from 14182 to 14199 kHz. Medium and persistent signal.
14192	815	27	7			PSK			Medium signal. Heard again on the 28th at 0915z.
14220.5	2300	10	7			F1B			Very strong signal. Persistent. Also heard on the 26th at 2150z.
14240	1130	18	7			STANAG			Very strong and persistent.
14295	1300	18	7			RADAR			Chinese Foghorn on and off. Medium signal.
14312	1355	27	7			RADAR			Radar from 14312 to 14343 kHz. Huge and persistent.
21000	1105	11	7	E or MM		USB			Spanish fishermen. Medium signals.
21340	1420	12	7			PSK			Weak to medium signal. Also heard on the 17th at 1020z.
21379	1200	24	7			RADAR			Radar from 21379 to 21393 kHz. Very strong signals.
21438	845	24	7	UKR		CW			RUS navy Sevastopol. Nearly daily.
24961	1150	6	7			F1B			Medium signal, on and off.
24980	1725	22	7						Ticking sound Completely irregular ticks. Strong signal. Slight fading, Band open to NA with WWV heard with a strong signal on 25 MHz.
28235	1145	3	7	S		USB			Swedish CBers. Roger beeps. Several male voices. Medium signals.
28820	910	6	7	IRN		RADAR			Radar in AM mode from 28820 to 28880 kHz. Weak, in and out. Also hear on the 20th at 0900z with also only a weak signal.

OeVSV; Christoph, OE1VMC

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
28100	2041	25	07	IRN		RADAR		45K0E	
21200	1638	24	07	INS		J3E-L		3K0E	Pirates in LSB

PZK; SP3AMO, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7000.0	vt	vd	07			CIS-12		2K7	S9 pilot 7001.3
7000.0	vt	vd	07			PSK	120	2k50E	
7060.0	1250	29	07			CIS-12		2K7	S9 pilot 7061.3
7060.0	vt	vd	07			PSK	120	2K70E	
7130.0	1011	12	07			J3E-L		2K8	Song in Russian
7140.0	1010	12	07			J3E-L		2K7	Propaganda in Russian
10133.0	1213	21	07			CIS-12		2K7	S9 pilot 10134.3

PZK; SP3AMO, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14088.0	0903	08	07			RADAR		16K0E	S8
14091.0	0955	14	07			CIS		2K7	S9 pilot 14192.3
14096.0	1436	18	07			RADAR	40	12K0E	
14102.0	1033	20	07			CIS		2K7	S5 pilot 14102.3 12:15 still on
14106.0	1427	18	07			RADAR	40	12K0E	
14117.0	0905	06	07			RADAR		12K0E	S5
14132.0	2210	04	07			RADAR		10K0e	S8 burst
14158.0	0645	12	07			RADAR	40	12K0E	
14162.0	0900	08	07			UI		3K0E	Digital, very noisy, like overdriven
14177.0	0700	10	07			RADAR		16K0E	S9
14178.0	vt	04	07			RADAR		10K0E	S8
14180.0	1900	23	07			RADAR		10K0E	short bursts
14184.0	1008	12	07			RADAR		10K0E	short bursts
14186.0	1240	29	07			RADAR		12K0E	S8
14192.0	0910	04	07			RADAR		8K0E	S8 burst
14193.0	0845	26	07			RADAR		10K0E	S6 short burst
14222.0	1205	21	07			RADAR		16K0E	S7
14257.0	1558	04	07			RADAR		10K0E	S6 burst
14300.0	1204	09	07			RADAR		16K0E	S8
14330.0	0921	22	07			RADAR		10K0E	short bursts
18064.5	0825	07	07			RADAR		12K0E	partially in the band
18137.0	0750	23	07			RADAR		12K0E	S6
18165.0	1845	13	07			RADAR	50	20K0E	
18168.0	1105	06	07			RADAR		12K0E	S8
18169.0	0736	05	07			RADAR	40	12K0E	
21005.0	0855	08	07			RADAR		10K0E	S7
21043.0	0850	27	07			RADAR		10K0E	S5
21162.0	0958	14	07			RADAR		8K0E	S8 burst
21170.0	vt	28	07	G		RADAR		20K0E	S7-9
21284.0	1220	29	07			UI		8K0E	S9
21295.0	1000	12	07	G		RADAR		20K0E	S7
21425.0	0912	07	07			RADAR		10K0E	10 sec. burst
24890.0	1200	21	07			RADAR		20K0E	S8 partially in the band
28055.0	0925	15	07			F3E		6K0	voices in Russian also 28115.0
28135.0	0726	06	07	RUS		F3E			Female voice
28136.0	0720	06	07			RADAR	300/840	46K0E	
28140.0	vt	vd	07			RADAR	300/840	46K0E	
28165.2	0853	05	07			A3E		5K0E	S5 conversation in French, also at 28175.0, CB?
28195.0	vt	vd	07			A3E		5K0E	S5 conversation in French
28230.0	1003	12	07	IRN		RADAR		60K0E	S6
28265.0	0855	05	07			FM		6K0	female voice in Russian
28860.0	1148	08	07			RADAR	150/300	46K0E	
28955.0	1245	29	07			RADAR		20K0E	S6

PZK; SP3AMO, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
29450.0	0825	28	07	IRN		RADAR		60K0E	S5
29650.0	0905	21	07	UI		F3E			Skandynawia

REF; Francis, F5MIU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14180	1715	04	07			fmcw	40	20kHz	OTH Radar pulsed 25ms, S9+20dB
21170	0741		07			fmcw	40	10kHz	OTH Radar pulsed 25ms, S8
21005	0743		07			fmcw	40	10kHz	OTH Radar pulsed 25ms, S9
21000	0805	12	07			usb			Spanish fisherman's?
21138	0807	12	07			fmcw	40	15kHz	OTH Radar pulsed 25ms, S9
14135	1630	13	07			fmcw	40	20kHz	OTH Radar pulsed 25ms, S9
18164	0732	14	07			fmcw	12	40kHz	OTH Radar pulsed 80ms, S9 (new radar ?)
14140	1657	16	07			fmcw	40	15kHz	OTH Radar pulsed 25ms, S9
14114	1657	16	07			fmcw	40	15kHz	OTH Radar pulsed 25ms, S7 Simultaneously with above
14050	1649	18	07			fmcw	40	15kHz	OTH Radar pulsed 25ms, S8
18070	0740	26	07			fmcw	50	25kHz	OTH Radar pulsed 20ms, S9+10

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3510.0	2119	18	07			J3E		2K70E	USB 'The Air Horn'. Daily.
3756.0	2119	18	07			J3E		1K70E	USB 'The Pip'. Daily.
7000.0	1606	01	07			J7D		2K70E	USB 6998.0 / CIS-12. Also heard 042155z, 051927z, 182012z, 191853z, 200608z, 210711z, 220722z, 230710z, 240830z, 270657z, 280717z.
7057.0	0753	14	07			J7D		2K70E	USB 7055.0 / CIS-12
7060.0	1120	29	07			J7D		2K70E	USB 7058.0 / CIS-12. Also heard 300707z, 310815z.
7074.974	0654	09	07			A1N			Continuous groups of 16 dashes
7074.984	1653	13	07			A1N			Continuous groups of 16 dashes. Also heard 230719z, 310827z.
7110.0	1611	01	07	ETH	R. Ethiopia	A3E			AM broadcasting. Also heard 131638z.
7117.0	2204	19	07	RUS		P0N	40	12K0E	Container pulse radar
7159.0	0729	15	07			J7D		2K40E	USB / Link 11 CLEW
7162.0	1319	02	07			F1B		250	FSK
7189.9	2104	22	07					3K40E	Unidentified noise
7196.0	1619	01	07	RUS		P0N	40	12K0E	Container pulse radar
14050.0	2010	18	07	RUS		P0N	40	12K0E	Container pulse radar
14089.0	0918	08	07	RUS		P0N	40	12K0E	Container pulse radar
14188.0	1330	09	07	RUS		P0N	40	12K0E	Container pulse radar
14189.0	1124	29	07	RUS		P0N	40	12K0E	Container pulse radar
14190.0	1333	02	07	RUS		P0N	40	22K0E	Container pulse radar; possibly two radars spaced approx. 10 kHz
14193.0	0721	15	07	RUS		P0N	40	12K0E	Container pulse radar
14198.0	0720	17	07	RUS		P0N	40	12K0E	Container pulse radar

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14198.5	1233	05	07					1K20E	Unidentified bursts
14221.0	0534	10	07			F1B		200	FSK. Also heard 182015z.
14230.0	0852	01	07	RUS		P0N	40	12K0E	Container pulse radar
14294.9	0831	19	07			J7D		2K75E	USB 14293.0 / CIS-60
14298.5	0806	14	07			F1D		1K20E	Unidentified FSK bursts. 600 Hz shift. Also heard 220816z.
14298.5	0734	23	07					1K20E	Unidentified bursts
14330.0	0809	22	07	CHN		F3N	66.7	10K0E	FMCW radar bursts
18064.0	0817	07	07	RUS		P0N	40	12K0E	Container pulse radar
18070.0	1231	05	07	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
18071.0	0817	14	07	CHN		F3N	50	10K0E	FMCW radar bursts
18080.0	0724	15	07			A3E			AM broadcasting. Also heard 230706z, 270655z, 300717z.
18165.0	0731	14	07	G		F3N	12.5	40K0E	FMCW radar, UK SBA, Cyprus
18165.0	0726	15	07	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21115.0	1431	22	07	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21125.0	0853	23	07	RUS		P0N	40	12K0E	Container pulse radar
21163.0	0751	14	07	RUS		P0N	40	12K0E	Container pulse radar
21170.0	0801	28	07	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21250.0	0856	30	07	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21330.0	0825	19	07	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21370.0	0859	23	07	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21388.0	1050	24	07	RUS		P0N	40	12K0E	Container pulse radar
21410.0	1230	05	07	RUS		P0N	40	12K0E	Container pulse radar
28140.0	1241	05	07	IRN		P0N		45K0E	Pulse radar, alternating between 307.1 and 869.5 pps

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7 MHz	(1930 - 0430)		7	RUS		RADAR	40sps	13k0E	(WebSDR 23d)
7000.0	0000-2400	*	7	RUS		J7D	120	2k60E	*) Days: 1. - 6. 18. - 29. Harmonic on 14 MHz
7022.0	0550-1815	*	7	RUS		J7D	120	2k60E	*) Days: 4. 5. 21. 30.
7025.0	0500-1600	*	7	RUS		F1A/B		200H	*) Days: 1. 2. 3. 9. - 20. 29. - 31. 5F
7031.0	0500-1730/	*	7	RUS		J3E-u		3k0E	*) Days: 16. - 20. brum, fem vox
7060.0	0000-2400	*	7	RUS		J7D	120	2k60E	*) Days: 29. - 31. (ex 7000 kHz) harmonic on 14 MHz
7088.0	0540-1830	23 24	7	RUS		F1B		200H	
7110.0	1500-1810/	01 - 31	7	ETH	R. Ethiopia	A3E		9k0	
7110.4	1800-1825/	01	7		RSS	A1A	22 wpm	20H	News in English (Google news)

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7140.0	1700-1845/		7	ERI	VoBME	A3E		9k0	+20Hz offset, not heard
7159.0	0500-0900/	15	7	IW		G7D-u		2k40E	North Sea
7162.0	0815-1500	02 20	7	RUS		F1B		250H	
7167.0	0530-1500	02 04	7	RUS		F1B		250H	
7186.0	0820	20	7	RUS		J7D	120	2k60E	Carrier on 7184 kHz
7196.0	1215-1235/	04	7	RUS		F1B		200H	
7198.0	1015-1600	02	7	RUS		J7D	120	2k60E	
7200.0	1200-1500/	01 - 31	7	TWN		A3E		9k0	National Unity Radio to Korea
7200.0	0400-0500/	23 - 29	7	ALG		A3E		9k0	TX test
7200.0	0400-0600/	31	7	ALG		A3E		9k0	
10 MHz	1350-1830	*	7	RUS		RADAR	40sps	13k0E	*) Days: 5. 8. 9. 15. 20. 24. 26. 29. 30. (WebSDR 12d)
14 MHz	0415-2130	*	7	RUS		RADAR	40sps	13k0E	*) Days: 1. - 23. 25. - 31. (WebSDR 30d)
14 MHz	0900-1830	*	7	CHN		RADAR	50/67sps	10k0E	*) Days: 1. 3. 4. 6. - 9. 11. 13. 16. 18. 20. - 23. 26. 28. 31. 'foghorn'
14000.0	1357-1457/	01 - 31	7	CHN	CRI	A3E		9k0	Tx intermodulation, //13710 & 13855 kHz
14008.0	0530-1315	*	7	RUS		F1B		250H	*) Days: 6. 07. 18. 21. 28.
14102.0	1040	20	7	RUS		J7D	120	2k60E	
14108.0	0855-1200	*	7	RUS	Z7ZX etc	A1A	17 wpm	40H	*) Days: 18. 28. 29. 5BL
14118.0	0830	25	7	RUS		J7D	120	2k60E	
14172.0	0730-0830	26	7	RUS		J7D	120	2k60E	
14193.0	0750-1810	15 17	7	RUS		J7D	120	2k60E	
14221.0	0330-0600/	01 - 31	7	KAZ		F1B		200H	
14235.0	1720-1820	11 13	7	RUS		J7D	120	2k60E	*) Days: 5. 7. 24.
14240.0	1145-1250/	28	7	RUS		F1B		250H	
14242.0	0725	13	7	RUS		J7D	120	2k60E	
14258.0	1340-1357/	04	7	RUS		F1B		500H	
14339.0	1055	06	7	RUS		A1A	20 wpm	40H	5F
18 MHz	0515-1300	*	7	G		RADAR	50sps	20k0	*) Days: 6. 7. 10. 18. 25. 26. 27. (WebSDR 12d)

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
18 MHz	0715-1420	*	7	RUS		RADAR	40sps	13k0E	*) days: 3. 7. 10. 12. 22. 24. 25. (WebSDR 4d)
18080.0	0710-0800	30 - 31	7	TWN		A3E		9k0	
21 MHz	0500-1500	*	7	G		RADAR	25/50sps	20k0	*) Days: 10. 11. 13. 15. 18. - 22. 24. - 28. 30. 31. (WebSDR 13d)
21 MHz	0640-1430	*	7	RUS		RADAR	40sps	13k0E	*) Days: 5. 8. 12. - 15. 23. 24. (WebSDR 6d)
21 MHz	0530-1040	*	7	CHN		RADAR	50/67sps	10k0E	*) Days: 7. 18. 25. 'foghorn'
21438.0	/0830-1600	*	7	RUS	RCV	A1A	20 wpm	40H	*) Days: 2. - 12. 14. - 19. 23. - 25. 29. - 31.
28 MHz	0800-1400	13 29	7	G		RADAR	50sps	20k0	(WebSDR 1d)
28 MHz	0545-1600	09 23	7	IRN		RADAR	150/313	60k0E	alternating fq (WebSDR 0d)
28 MHz	0500-1830	*	7	IRN		RADAR	310/870	120k0E	*) Days: 6. - 9. 11. 12. 16. 26. (WebSDR 3d)
28860.0	0500-1830	*	7	IRN		RADAR	150/313	60k0E	*) Days: 1. - 12. 14. - 16. 18. 19. 21. - 25. 27. 30. 31. (WebSDR 9d)
28 MHz	0500-1830	*	7	RUS	Taxi disp.	F3E		3k0E	*) Days: 2. 6. - 9. 16. 18. 19. 22. 23. 24. 86 reports

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7000.0	1803 1954	01 18	07			J7D	12x120 Bd	2k70E	CIS12; long lasting, for quite some time; almost daily
7000.0	1531	02	07			N0N		10H	long lasting carrier, strong fading
7004.8	1339 0534	07 21	07			XXX		ca 2k4	short bursts; unknown signal;often
7018.0	2147	14	07			FMOP	40 sps	12k0E	OTHR; Contayner
7025.0	0630	11	07	RUS	RDL	F1A		200H	CW-FSK encrypted; ID RDL
7025.0	0833 0509	14 29	07	RUS	RDL	F1B	50 Bd	200H	FSK often
7057.0	0756	14	07			J7D	12x120 Bd	2k70E	CIS12
7060.0	0915	29	07			J7D	12x120 Bd	2k70E	CIS12
7086.0	2152	14	07			FMOP	40 sps	12k0E	OTHR; Contayner
7110.0	1606	09	07	ETH		A3E		ca 9k0E	BC: Radio Ethiopia
7155.0 LSB	2139	14	07			PSK-4	30x60Bd	2k50E	CHN30 (aka PRC30); Burst system; Preamble 4x PSK4 60Bd, spacing 600Hz; Pilot tone at 450Hz
7176.0	1230	05	07			J7D	12x120 Bd	2k70E	CIS12; idling only
7198.0	1524	02	07			J7D	12x120 Bd	2k70E	CIS12
7198.8	2010	18	07			XXX		ca 3k	unid signal
14000.0	1402	01	07		CRI	A3E			China Radio International. often

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14026.0	1129 1157	04 27	07			J7D	12x120 Bd	2k70E	CIS12 often
14048.0	1351	28	07			XXX		ca 2k7	unid signal
14050.0	2017	18	07			FMOP	40 sps	12k0E	OTHR; Contayner
14086.0	0830	18	07			F1B	75 Bd	250H	FSK
14089.0	0754	08	07			FMOP	40 sps	12k0E	OTHR; Contayner
14098.5	1342	14	07			ARQ	600/ 1200	600H 1200H	DPRK ARQ system (FSK or PSK)often
14118.0	1000	28	07			J7D	12x120 Bd	2k70E	CIS12; idling
14148.0	1323	07	07			FMOP	40 sps	12k0E	OTHR; Contayner
14154.0	0955	17	07			FMOP	40 sps	12k0E	OTHR; Contayner
14155.0	1805	20	07			OTHR	66.66 sps	10k0E	OTHR; Bursts
14160.0	0948	17	07			FMOP	40 sps	12k0E	OTHR; Contayner
14168.0	0911	09	07			FMOP	40 sps	12k0E	OTHR; Contayner
14193.0	0519	21	07			FMOP	40 sps	12k0E	OTHR; Contayner
14195.0	0907	09	07			FMOP	40 sps	12k0E	OTHR; Contayner
14198.5	1336 1201	14 27	07			ARQ FSK	600 Bd	600H	FSK: DPRK ARQ system often
14221.0	2217 2018	08 18	07			F1B	50 Bd	200H	FSK often
14258.0	1351	04	07			F1B	50 Bd	500H	FSK
14292.0	1209	27	07			A1A		10H	CW: only short sequences, no ham
14296.0	1619	162 6	07			OTHR	40 sps	12k	OTHR, only short sequence (burst)
14300.0	1245	26	07			FMOP	40 sps	12k0E	OTHR; Contayner
14312.0	1406	01	07			FMCW	66.66 sps	10k0E	OTHR; Bursts
18070.0	1243	06	07	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
18080.0	0628 0702	14 27	07			A3E			BC: Sound of Hope, Taiwan daily
18081.0	0714	07	07			FMOP	40 sps	12k0E	OTHR; Contayner
18165.0	0745	14	07			OTHR	12 sps	40k	OTHR; wideband 40kHz
21005.0	0801	08	07			FMOP	40 sps	12k0E	OTHR; Contayner
21163.0	0754	14	07			FMOP	40 sps	12k0E	OTHR; Contayner
21250.0	1343	30	07	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21410.0	1246	06	07			FMOP	40 sps	12k0E	OTHR; Contayner
21438.0	0831	06	07	RUS	RCV	A1A		10H	Area of Sevastopol daily
21450.0	1332	30	07					9k0E	BC, Music and voice, sounds arabian?
28139.0	0745	08	07	IRN		?	307 + 870 sps	ca 45k	OTHR; Bursts; long lasting, sweep rate alternating
28142.0	0827	06	07	IRN		?	307 + 870 sps	ca 45k	OTHR; Bursts; long lasting, sweep rate alternating
28860.0	0809 0828	06 14	07	IRN		?	150 + 313 sps	ca 50k	OTHR; Bursts; long lasting, sweep- rate alternating often

VERON; Ruud, PG1R

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3596.5	1954	17	07	RUS	LKO3	A1A			LKO3 QTC 608 26 17 1235 608 = 5BL
3741.0	2005	17	07	RUS	TI3S	A1A			Calling TI3S many times
7050.0	1807	13	07	UKR /RUS		J3E-L			Male voice; radio war; almost daily
7055.0	1851	01	07	UKR /RUS		J3E-L			2 TX dueling; comments
7055.0	1806	13	07	UKR /RUS		J3E-L			Male voice; radio war; almost daily
7055.0	0907	19	07	UKR /RUS		J3E-L			Male voice; radio war
7165.0	1908	09	07			XXX		4K0E	Unknown mode
10108.0	0746	15	07	RUS		F1A			UiCW; 5F
10108.0	0750	15	07	RUS		FiB			Revs/UiPtr
10120.0	1025	01	07	RUS		F1B			UiPtr; Revs
14008.0	1055	24	07	RUS		F1B			Carrier/Revs/UiPtr
14108.0	1007	30	07	RUS	DUO6	A1A			DUO6 calling S2TY
14116.0	1006	08	07	RUS		F1B			UiPtr
14169.0	0902	19	07	RUS		F1B		200H	UiPtr
14190.0	0927	01	07	RUS		RADAR	40	12K0E	OTHR Contayner
14221.0	2011	09	07	RUS		F1B		200H	Printer
14293.0	1242	03	07	RUS		RADAR	40	12K0E	CF; OTHR Contayner
21436.0	1045	01	07	RUS		F1B			UiPtr; Revs

Contact: Gaspar Miró, EA6AMM, ea6amm@iaru-r1.org

IARUMS R1 Coordinators: https://www.iaru-r1.org/spectrum/monitoring-system/iarums-region-1-coordinators/

Visit our website: https://www.iaru-r1.org/about-us/committees-and-working-groups/iarums/