

IARU Monitoring System Region 1

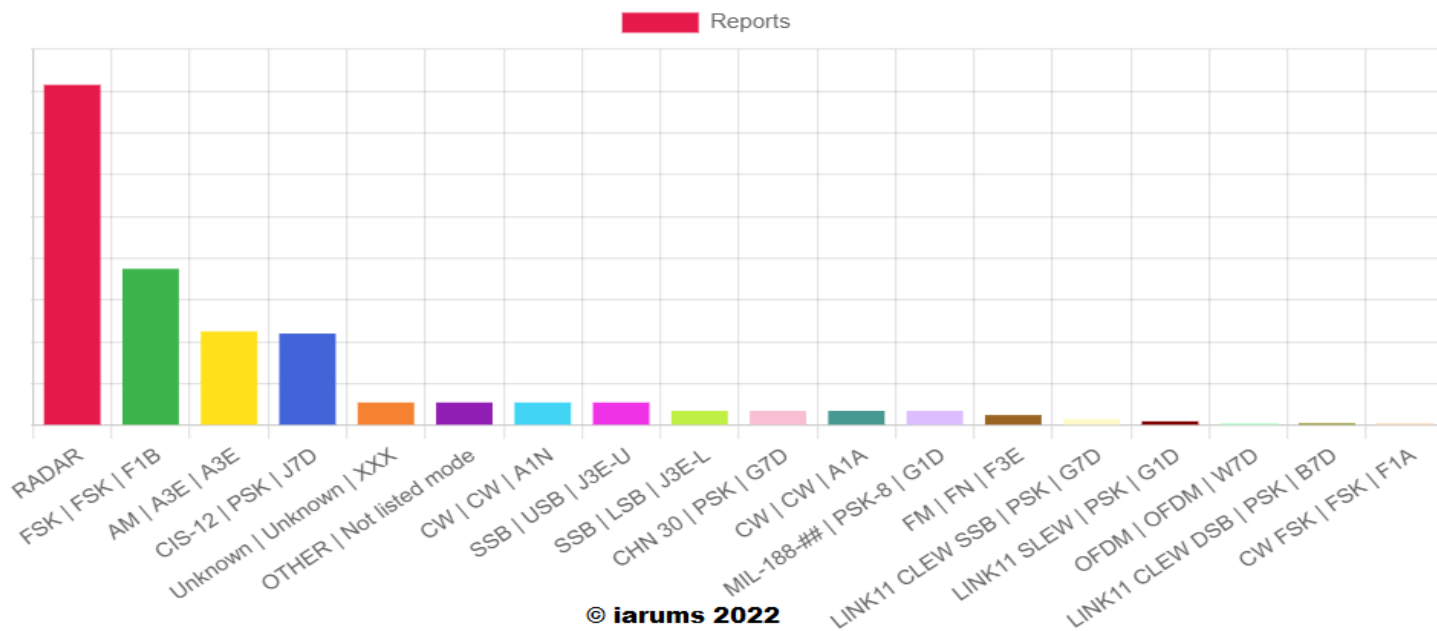


Monthly Newsletter - September 2022

News and info

Regarding the reception of signals emitted by intruders in the HF amateur radio bands, September has been a month similar to the previous ones, with no major news to highlight.

By this we mean that, unfortunately, during September, as in the previous months, we have received a large number of transmissions made by OTH radars, as well as many transmissions sent in various military modes; many of these transmissions are well-known and have been received for many years. The same applies to several transmissions sent by some broadcasting stations, mostly received in the 40 m band.



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** = unidentified.

DARC; Daniel, DL3RTL. Credit to monitors: DO1MGS, Manfred; DG4KM, Kai; DL2SCH, Jürgen; DF5JL, Tom; DL8LAQ, Norbert; DL4HG, Olaf; DB4UP, Christoph; DO1LR, Christian; DL9PA, Klaus; DM2MA, Matthias; F4FPR, Benjamin; DF2KS, Sven; DB3TA, Alex.

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6999,8	vt	vd	09	RUS		PSK		2k4	CIS-12
7054,0	1934	27	09					8k	unid
7058,0	2045	27	09	RUS		FMOP	40	12k	OTHR Contayner
7074,9	0918	10	06			A1N			16 dashes - pause- and reapaet
7080,0	1715	14	09	RUS		F1B	50	200	CIS-36-50
7087,0	1922	27	09	RUS		FMOP	40	12k	OTHR Contayner
7095,0	1922	27	09	RUS		FMOP	40	12k	OTHR Contayner
7100,0	vt	vd	09				50	48k	OTHR 40,8s burst every 5 min
7140,0	2032	04	09	RUS		FMOP	40	12k	OTHR Contayner
7192,0	0028	07	09	RUS			500	1500	CIS Akula
7197,8	2030	29	09	RUS		PSK		2k4	CIS-12
7199,9	1645	05	09					3k	unid
7200,0	vt	vd	09	ALG		A3E		10k	Telediffusion d'Algerie
14015,0	1748	16	09	CHN		FMCW	50	10k	OTHR 2,5s bursts
14139,0	1836	16	09	RUS		FMOP	40	12k	OTHR Contayner
14144,0	1746	16	09	RUS		FMOP	40	12k	OTHR Contayner
14150,0	1915	01	09	RUS		FMOP	40	12k	OTHR Contayner
14153,0	0626	04	09	RUS		FMOP	40	12k	OTHR Contayner
14161,0	1950	16	09	RUS		FMOP	40	12k	OTHR Contayner
14165,0	1543	05	09	RUS		FMOP	40	12k	OTHR Contayner
14177,0	1602	05	09	RUS		FMOP	40	12k	OTHR Contayner
14182,0	1923	01	09	RUS		FMOP	40	12k	OTHR Contayner
14191,0	1746	16	09	RUS		FMOP	40	12k	OTHR Contayner
14198,6	0701	25	09			FSK		850	STANAG 4481 FSK
14290,0	1337	05	09	RUS		FMOP	40	12k	OTHR Contayner
14298,6	0632	25	09			FSK		850	STANAG 4481 FSK
14317,0	1625	16	09	RUS		FMOP	40	12k	OTHR Contayner
18080,0	1420	25	09	CYP		FMCW	50	20k	OTHR Pluto Cyprus
18107,0	1712	14	09	RUS		F1B	50	200	CIS-36-50
21000,0	1038	24	09	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21052,0	1215	24	09	CHN		FMCW	50	10k	OTHR 5,1s bursts
21175,0	0946	25	09	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21253,0	1106	25	09	CHN		FMCW	50	10k	OTHR 5,1s bursts
21259,0	1106	25	09	CHN		FMCW	50	10k	OTHR 5,1s bursts
21310,0	1025	04	09	CYP		FMCW	50	20k	OTHR Pluto Cyprus -75dBm
21330,0	1032	24	09	CHN		FMCW	50	10k	OTHR 5,1s bursts
21339,0	0947	25	09	CHN		FMCW	50	10k	OTHR 5,1s bursts
21355,0	1030	24	09	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21426,0	1224	11	09	RUS		FMOP	40	12k	OTHR Contayner
21450,0	1310	03	09	ALG		A3E		10k	Telediffusion d'Algerie
28030,0	1510	25	09	CYP		FMCW	50	20k	OTHR Pluto Cyprus
28390,0	0811	24	09				14	40k	OTHR
28450,0	0910	11	09	IRN			150/313	45k	Iranian OTHR
28600,0	vt	vd	09	IRN			307/870	45k	Iranian OTHR 5,81/3,26s bursts
28710,0	1045	28	09	CYP		FMCW	25	20k	OTHR Pluto Cyprus
28860,0	vt	vd	09	IRN			150/313	45k	Iranian OTHR

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
29100,0	0802	25	09	IRN			225/333	45k	Iranian OTHR 8,02/5,99s bursts
29200,0	0807	25	09	IRN			225/333	45k	Iranian OTHR 8,02/5,99s bursts
29300,0	0720	18	09	IRN			225/333	45k	Iranian OTHR
29450,0	0958	04	09	IRN			225/333	45k	Iranian OTHR
29500,0	1000	24	09	IRN			225/333	45k	Iranian OTHR 8,02/5,99s bursts
29800,0	1001	04	09	IRN			225/333	45k	Iranian OTHR
29895,0	0715	18	09	IRN			150/313	45k	Iranian OTHR
29900,0	0724	18	09	IRN			150/313	45k	Iranian OTHR

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3636	1640	14	9	HOL or MM		USB			Group of Dutch fishermen. Very strong signals. Loud motor noise from one of the ships.
7000	1635	14	9			PSK			Very strong and persistent signal.
7000.9	1150	12	9	UK or MM		USB			Ulster fishermen. Reported by EI2IP. He supplied the videos as well. Also heard 14th of September at 0823. Recorded 14/9/2022 @ 8.23am , Intruders within the 40M Amateur Radio Band. - YouTube Recorded 12/9/22 @ 11.50am, Intruders within the 40M Amateur Radio Band. - YouTube
7000.5	2010	29	9			PSK			Huge and persistent signal.
7050	1555	13	9	UKR /RU S		LSB			Russian-Ukrainian radio war. Heard often. Song "Bayraktar"
7055	1545	8	9	UKR /RU S		LSB			Russian-Ukrainian radio war. Very strong signals. Every day all day long.
7072	1550	13	9	UKR /RU S		LSB			Russian-Ukrainian radio war. "Russenschwein" moving around the band. Also 7069,7066, 7087 kHz. Huge signals.
7081	2005	29	9			F1B			Strong and persistent signal.
7100	1400	5	9	HOL or MM		USB			Group of Dutch fishermen. Medium signals. Bad audio. Ends 1430z.
7100	1045	26	9	F		LSB			Music being played. Obscene remarks in French by a male voice. Racket goes on for a full hour. Same male voice as on 80 metres around 3765 kHz- see earlier reports.
7107	2000	29	9			F1B			Huge and persistent.
7110	1715	24	9	ETH		AM			Radio Ethiopia, medium signal. On and

IRTS; Michael, EI3GYB									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
									off.
7160.5	940	5	9			PSK			Link 11-Clew. Medium signal. Still on 8th at 1530z.
7198.5	1955	29	9			PSK			Huge and persistent signal.
7200	530	10	9	ALG		AM			RTA Alger in Arabic. Huge signal.
7200	1430	25	9	BRM		AM			Radio Myanmar. Very weak
14000	1530	3	9	CHN		AM			China Radio International. Mixing product from broadcasts on two different frequencies. Medium signal. Most days audible.
14150	930	25	9			RADAR			Radar from 14150 to 14320 kHz. Huge signals, covering nearly the entire SSB section of the 20 metre band. On and off for two hours.
14300	1305	30	9			RADAR			Radar from 14300 to 14338 kHz. Strong, persistent.
14325	1115	26	9			RADAR			Radar from 14235 to 14266 kHz. Huge and persistent. Wipes the band clean.
14297.5	1305	30	9			FSK			North Korean embassy traffic. Huge and persistent.
14320	905	28	9			RADAR			Radar from 1430 to 14332 kHz. Weak, in and out.
14322	945	26	9			RADAR			Radar from 14322 to 14335 kHz. Weak but persistent.
18108	1300	6	9	UK base on Cyprus		RADAR			Radar from 18108 to 18142 kHz. Huge and persistent."Pluto"
18124	1235	6	9	UK base on Cyprus		PSK			Very strong and persistent signal."Pluto"
18145	910	17	9	UK base in Cyprus		RADAR			Huge and persistent. "Pluto"
20987	1040	24	9			RADAR			Radar from 20987 to 21016 kHz. Very strong and persistent.
21000	1225	28	9	E or MM		USB			Group of Spanish fishermen. Medium signals.
21176	840	22	9	UK base on Cyprus		RADAR			Radar from 21176 to 21205 kHz. Huge and persistent.
21334	915	19	9	UK base on		RADAR			Radar from 21334 to 21361 kHz. Huge and persistent.

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
				Cypr us					
21410	1255	30	9	UK base on Cypr us		RADAR			Radar from 21410 to 21430 kHz. Medium signal. Persistent.
21438	900	17	9	UKR		CW			Russian Navy Sevastopol. Medium signals, nearly daily audible.
24967	1420	30	9	UK base on Cypr us		RADAR			Radar from 24967 to 24981 kHz. Weak but persistent.
28310	1250	30	9			RADAR			Radar from 28310 to 28352 kHz. Medium and persistent signals.
28396	900	17	9			RADAR			Radar from 28396 kHz to 28420 kHz. Huge and persistent signals.
28708	1300	30	9			RADAR			Radar from 28708 to 28730 kHz. Medium and persistent signals.
28845	925	25	9	IRN		RADAR			Radar from 28845 to 28885 kHz. AM mode. Medium and persistent signals. Daily nearly all day long.

PZK; SP3AMO, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7000.0	vt	vd	09			CIS-12		2K7	S7
7044.0	1634	22	09			F1B		250H	
7055.0	1925	27	09			UI		20K0E	
7100.0	1226	22	09			J3E-L		2K7	music/talk in Russian
7112.0	0554	23	09			F1B		200H	
7137.0	1710	29	09			F1B		200H	
7162.0	1617	02	09			F1B		250H	
7170.0	1750	12	09			RTTY		200	S7
7174.0	1830	11	09			RADAR		12K0E	S8
7197.0	1708	29	09			PSK	120	3K0E	
10133.0	1620	02	09			UI		4k0E	
14026.0	0853	15	09			CIS-12		2K7	S7
14068.5	0910	10	09			UI		14K0E	S7
14114.0	1208	19	09			RADAR		12K0E	S6
14136.0	1455	17	09			RADAR		8K0E	S7 burst
14136.0	1050	22	09			RADAR		8K0E	S7 burst
14162.0	0625	08	09			RADAR	40	12k0E	
14165.0	1650	05	09			RADAR	40	12k0E	Bursts
14171.0	1335	29	09			CIS-12		2K7	S9+
14176.0	1651	05	09			RADAR	40	12k0E	Bursts
14186.0	0851	12	09			RADAR		12K0E	S7

PZK; SP3AMO, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14189.0	0812	10	09			RADAR		8K0E	S9 burst
14190.0	1058	28	09	G		RADAR		10K0E	S9 burst
14200.0	1045	22	09			RADAR		14K0E	S9
14220.0	1342	16	09			RADAR		20K0E	S9+30dB!!!
14238.0	1120	19	09			RADAR		10K0E	S7 burst
14240.0	1305	15	09			RADAR		10K0E	S7
14252.0	1135	26	09			RADAR		20K0E	S9+
14265.0	1225	22	09			RADAR		10K0e	S7 burts also 14315.0
14285.0	1555	26	09			RADAR		10K0E	S7 burst
14290.0	0922	28	09			RADAR		80K0E	
14336.0	1435	17	09			RADAR		8K0E	S7 burst
18065.0	0540	25	09			RADAR	50	20k0E	
18107.0	vt	vd	09			RTTY		200	S7 long lasting with short breaks
18126.0	0825	02	09			RADAR		10K0E	S5
18165.0	0825	02	09			RADAR		10K0E	S6 bursts
18172.0	1240	18	09			RADAR		20K0E	S8 partially in the band
21010.0	0728	02	09			RADAR		20K0E	S9+10dB
21171.0	0900	15	09			RADAR		10K0E	bursts + 21248.0, 21251.0, 21330.0
21205.0	1050	30	09			RADAR		10K0E	S6 bursts
21285.0	0930	29	09			A3E		12K0E	S5 voice/music strange like with echo
21286.0	0850	18	09			RADAR		10K0E	S7 burst
21312.0	0940	21	09			RADAR		10K0E	S6 bursts
21350.0	0920	19	09			RADAR		20K0E	S9
21375.0	vt	vd	09			RADAR		10K	S5
21376.0	1115	22	09			RADAR		10K0E	S6 bursts
21410.0	1345	17	09			RADAR		10K0E	S5
21415.0	1237	14	09			RADAR		10K0E	burst
21416.0	0830	02	09			RADAR		12K0E	S9+10dB
21428.0	0918	28	09			RADAR		10K0E	S6 bursts
24980.0	1150	18	09			F3E		5K0E	S7 Asiatic language?
28030.0	0925	29	09			RADAR		40K	S6
28150.0	1025	27	09			RADAR		40K	S4
28330.0	0920	29	09			RADAR		40K	S6
28600.0	vt	vd	09	IRN		RADAR		60K0E	S5
28860.0	vt	vd	09	IRN		RADAR	300	60K0E	S7 and 28910.0
29050.0	0907	10	09	IRN		RADAR		60K0E	S7
29100.0	1148	12	09			RADAR		20K0E	S5
29200.0	1148	18	09			RADAR		60K0E	S5
29230.0	1228	29	09			RADAR		20K0E	S7
29400.0	1146	12	09	IRN		RADAR		60K0E	burst
29450.0	vt	vd	09	IRN		RADAR		60K0E	S8
29500.0	vt	vd	09	IRN		RADAR		60K0E	S7
29600.0	vt	vd	09			RADAR		50K0E	S6

REF; Francis, F5MIU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21010	0738	2	09			fmcw	50	20kHz	OTH Radar pulsed 20ms, S8
21450	1612	3	09			AM		10kHz	Arabic broadcasting S9
18150	1559	6	09			fmcw	40	25kHz	OTH Radar pulsed 25ms, S9 +20
21165	1703	12	09			fmcw	25	20kHz	OTH Radar pulsed 40ms, S9 +20
14060	0800	14	09			fmcw	50	10kHz	OTH Radar pulsed 25ms, S8
14315	1628	15	09			fmcw	50	20kHz	OTH Radar pulsed 25ms, S9 +30dB !
21160	1617	16	09			fmcw	40	20kHz	OTH Radar pulsed 25ms, S9+20dB
21140	0745	19	09			fmcw	50	20kHz	OTH Radar pulsed 20ms, S9+20dB
14003	0744	20	09			fmcw	40	10kHz	OTH Radar pulsed 25ms, S8 intermittent
28380	0800	22	09			fmcw	25	20kHz	OTH Radar pulsed 40ms, S9 +20
14300	0756	23	09			fmcw	10	100kHz	OTH Radar pulsed 100ms, S9 Bw 20kHz shifting over 100 kHz
14120	1558	29	09			fmcw	50	25kHz	OTH Radar pulsed 25ms, S9 +30dB

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3510.0	1753	06	09			J3E		2K70E	USB 'The Air Horn'
3756.0	1754	06	09			J3E		1K70E	USB 'The Pip'. Daily. Also heard 291912z
7000.0	2047	14	09			J7D		2K70E	USB 6998.0. Also heard 201600z, 211605z, 241551z, 261843z, 290757z, 301419z.
7074.984	0845	03	09			A1N			Continuous groups of 16 dashes. Also heard 042103z, 060616z, 080615z, 091927z, 140628z, 180640z, 202014z, 241553z, 250659z
7080.0	1751	06	09			F1B		200	FSK. Also heard 091928z, 261845z, 291900z
7088.0	0749	11	09			F1B		200	FSK
7089.8	2020	20	09			G1D		2K40E	Link 11 SLEW
7100.0	0842	03	09					7K00E	Unidentified bursts
7110.0	1750	06	09	ETH	R. Ethiopia	A3E			AM broadcasting
7111.0	2049	14	09	RUS		P0N	40	12K	Container pulse radar
7114.0	2100	04	09			F1B		200	FSK
7122.0	1752	06	09			F1B		250	FSK
7159.0	1257	08	09			J7D		2K40E	USB 7159.0 / Link 11 CLEW
7162.0	1357	04	09			F1B		250	FSK
7198.0	1858	29	09			J7D		2K70E	USB 7196.0 / CIS-12
7199.993	1422	30	09			A3E			AM broadcasting
7200.0	0544	05	09			A3E		9K60E	AM broadcasting. Also heard 060611z, 180630z
10113.0	1924	09	09	RUS		P0N	40	12K0E	Container pulse radar
14068.9	1746	06	09					7K00E	Unidentified
14117.0	1922	09	09	RUS		P0N	40	12K0E	Container pulse radar
14126.0	1558	20	09	RUS		P0N	40	12K0E	Container pulse radar

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14160.0	0832	03	09			F1B		250	FSK
14161.0	0607	08	09	RUS		P0N	40	12K0E	Container pulse radar
14169.0	0718	29	09			F1B		200	FSK
14186.0	0831	03	09	RUS		P0N	40	12K0E	Container pulse radar
14205.0	0830	30	09	CHN		F3N	66.7	10K0E	FMCW radar bursts
14298.5	0804	21	09			F1D		1K20E	Unidentified FSK bursts 600Hz shift
14307.0	0837	03	09	CHN		F3N	66.7	10K0E	FMCW radar bursts
14345.0	0649	13	09					5K00E	Unidentified
18079.0	0635	18	09	CHN		F3N	50	10K0E	FMCW radar bursts
18080.0	0704	27	09	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
18080.0	0754	30	09			A3E			AM broadcasting
18107.0	1501	04	09		RDL	F1B		200	FSK. Ident in F1A. Also heard 130639z, 140632z, 160624z, 180633z, 200905z, 210802z, 241600z, 250711z, 270708z, 290734z, 300752z
18138.0	0803	21	09	CHN		F3N	66.7	10K0E	FMCW radar bursts
18153.0	0707	27	09	RUS		P0N	40	12K0E	Container pulse radar
18163.0	0622	16	09	RUS		P0N	40	12K0E	Container pulse radar
21209.0	0918	20	09	CHN		F3N	66.7	10K0E	FMCW radar bursts
21237.0	0935	20	09	CHN		F3N	66.7	10K0E	FMCW radar bursts
21250.0	1014	23	09	CHN		F3N	66.7	10K0E	FMCW radar bursts
21279.0	0916	20	09	CHN		F3N	66.7	10K0E	FMCW radar bursts
21418.0	1012	23	09	RUS		P0N	40	12K0E	Container pulse radar
21423.0	1417	30	09	RUS		P0N	40	12K0E	Container pulse radar
28150.0	1043	27	09	G		F3N	12.5	40K0E	FMCW radar, UK SBA, Cyprus
28540.0	1555	20	09	G		F3N	25	20K0E	FMCW radar, UK SBA, Cyprus

RSK; Kamweti, 5Z4BV

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7000	vt	vd	9	KEN		PSK		2K5E	STANAG 4285
7050	1501	16	9	KEN		PSK		2K5E	STANAG 4285
7058	0829	29	9	?		J3E-U		2k	Congo region French/vernacular QSO
7060	0551	4	9	KEN		PSK		2K5E	STANAG 4285
7110	vt	dly	9	ETH		A3E		22kE	Radio Ethiopia National Service
7150	vt	dly	9	KEN		MFSK	128	2k2	2G ALE

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7 MHz	1600-0300	22	9	RUS		RADAR	40sps	13k0E	(WebSDR 29d)
7000.0	1000-1015	24 26	9	RUS		A1A		40H	5F
7000.0	0500-1900	*	9	RUS		J7D	120	2k60E	*) Days: 1. 13. - 30.
7016.0	0645-	*	9	RUS		F1B		250H	*) Days: 6. 13. 14.

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
	0940/								
7020.0	0745-1400	*	9	RUS		F1B		250H	*) Days: 1. 5. 19.
7022.0	0640-1745	*	9	RUS		J7D	120	2k60E	*) Days: 12. 13. 20. 24. 29. 30.
7030.0	0530-1800	*	9	RUS		F1B		200/250H	*) Days: 1. 2. 4. 21. 23. 27.
7031.0	0520-1430	*	9	RUS		R3E-u		3k6	*) Days: 18. 19. 20. brum
7054.0	0500-0600	23	9	RUS		F1B		400H	
7059.0	1430-1545	01	9	RUS		F1B		250H	
7061.0	1400	01	9	RUS		J7D	120	2k60E	
7076.0	0800-1345	20 23	9	RUS		J7D	120	2k60E	
7080.0	1700-1810	*	9	RUS		F1B		200H	*) Days: 1. 5. 12. 13. 16. 21.
7088.0	0000-2400	*	9	RUS		F1B		200H	*) Days: 1. 2. 3. 21. 23.
7089.0	0800-0900/	15	9	RUS		J7D/ NON	120	2k60E	Carrier on 7087 kHz
7103.0	0915-1330	10	9	RUS		J7D	120	2k60E	Carrier on 7102 kHz
7110.0	1600-1803/	01 - 27	9	ETH	R. Ethiopia	A3E		9k0	
7110.4	1715-1830/	10 19	9		RSS	A1A	20 wpm	40H	"Google news"
7111.0	0715-1320/	15 24	9	RUS		F1B		250H	
7114.0	0500-0600	02 - 29	9	RUS		F1B/ NON		200H	
7115.0	0715-0730/	*	9	RUS		R2A-u	20 wpm	3k3E	*) Days: 1. 14. 22. 5F groups twice
7119.0	0500-1245	06	9	RUS		F1B		200H	
7122.0	0730-1200	*)	9	RUS		F1B/ NON		250H	
7127.0	0500-1600	01 - 29	9	RUS	NVGH etc.	A1A	20 wpm	40H	5F, 5BL
7132.0	0730-0750	01	9	RUS		A1A	18 wpm	40H	5BL
7140.0			9	ERI	VoBME	A3E		9k0	not heard
7159.0	0530-0630	09	9	IW		G7D-u		2k40E	North Sea
7162.0	0000-2400	*)	9	RUS		F1B		250H	Days: 1. 2. 4. 21. 27.
7170.0	1240	22	9	RUS		A1A	7 wpm	40H	5BL
7170.0	0510-0600	13 14	9	RUS		F1B		200H	

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7174.0	1415-1540/	06	9	RUS		F1B		200H	
7179.0	0730-1700	05 21	9	RUS		F1B		200H	
7186.0	1115-1131/	15	9	RUS		J7D	120	2k60E	
7192.0	1200-1330	04	9	RUS		F1B		250H	
7196.0	0545-1225/	*	9	RUS		N0N			*) Days: 5. 7. 12. 28.
7196.0	0645-1220	*	9	RUS	KH5R	A1A	16 wpm	40H	*) Days: 7. 9. 15. 16. 19. 20. 21. 22. 26.
7198.0	0515-1000	30	9	RUS		J7D	120	2k60E	
7200.0	1200-1500/	01 - 30	9	TWN		A3E		9k0	National Unity Radio to Korea
7200.0	2300-0705/	*	9	ALG		A3E		9k0	*) Days: 1. 4. - 7. 10. - 13. 14. 18. 21. - 30. usually 0400 - 0500
10 MHz			9	G		RADAR	50sps	20k0	(WebSDR 2d)
10 MHz	1515-1800	08 09	9	RUS		RADAR	40sps	13k0E	(WebSDR 10d)
14 MHz	0500-1600	*	9	RUS		RADAR	40sps	13k0E	*) Days: 1. 3. 6. - 12. 15. 16. 17. 19. 20. 26. 29. (WebSDR 22d)
14 MHz	0500-1800	*	9	CHN		RADAR	50/67s ps	10k0E	*) Days: 1. 2. 3. 10. 12. - 18. 21. 23. 26. 27. 28. 30. 'foghorn'
14000.0	1357-1457/	01 - 30	9	CHN	CRI	A3E		9k0	Tx intermodulation, //13710 & 13855 kHz
14133.0	1015	01	9	RUS		A1A	13 wpm	40H	5F
14135.0	0605-0830	05	9	RUS		F1B		250H	
14160.0	0725-1315	03	9	RUS		F1B		250H	
14171.0	1345	29	9	RUS		J7D	120	2k60E	
14221.0	0400-0600/	01 - 30	9	KAZ		F1B		200H	
14263.0	0620-0810/	20	9	CHN		RADAR	10 sps	40k	
18 MHz	0445-1510	*	9	G		RADAR	25/50s ps	20k0	*) Days: 2. 4. 18. 19. 25. 26. 28. (WebSDR 10d)
18 MHz	0500-1445	*	9	RUS		RADAR	40sps	13k0E	*) Days: 13. 21. 22. 27. (WebSDR 18d)
18080.0	0700-0800	*	9	TWN		A3E		9k0	*) Days: 3. 7. 10. 11. 18. 24. 28.
21 MHz	0530-1700	*	9	G		RADAR	25/50s ps	20k0	*) Days: 4. 6. 8. 12. 14. 19. 21. 22. 24. 26. 27. 30. (WebSDR 20d)
21 MHz	1100-1530	*	9	RUS		RADAR	40sps	13k0E	*) 16. 19. 30. (WebSDR 10d)
21 MHz	0530-1245	*	9	CHN		RADAR	50/67s ps	10k0E	*) Days: 1. 17. 18. 21. 23. - 27. 29. 30. 'foghorn'

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21438.0	/0830 -1530	*	9	RUS	RCV	A1A	20 wpm	40H	*) Days: 2. 10. 11. 14. 17. 19. 21. - 29.
21450.0	1315- 1535/	03	9	ALG		A3E		9k0	
24 MHz	1510	24	9	G		RADAR	50 sps	20k0	
28 MHz	0745- 1540	*	9	G		RADAR	25/50s ps	20k0	*) Days: 17. 22. - 25. 27. 29. 30. (WebSDR 5d)
28 MHz	0750- 1310	*	9	G		RADAR	12,5 sps	40k0	*) Days: 15. 24. 27. 30. (WebSDR 9d)
28 MHz	0500- 1600	*	9	IRN		RADAR	150/ 313	60k0E	*) Days: 2. 10. 12. - 19. 22. - 27. 29. 30. (WebSDR 12d)
28 MHz	0500- 1430	*	9	IRN		RADAR	310/ 870	120k0E	*) Days: 2. 14. 17. 27. - 30. (WebSDR 4d)
28860.0	0500- 1600	*	9	IRN		RADAR	150/ 313	60k0E	*) Days: 5. 8. 10. - 30. (WebSDR 22d)
28 MHz	0730- 1430	*	9	RUS	Taxi disp.	F3E		3k0E	*) Days: 22. - 25. 27. - 30. 47 reports

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7000.0	2150 2335	01 29	09			J7D	12x120 Bd	2k70E	CIS12; very long lasting; daily
7000.0	1340	05	09			J3E-U		ca 2k7	possibly English accent often
7000.0	1021	24	09			A1A			CW; encrypted, groupes of 5
7004.8	1541 0857	08 27	09			G1D PSK8	2400Bd	ca 2k4	short bursts, PSK8 1800 Hz single tone modem often
7005.0	1502	02	09			A1N			fast dots only, maybe jammer?
7006.8	1548	02	09			G1D PSK8	2400Bd	2k70E	short bursts, PSK8 1800Hz single tone modem often
7008.0	1229	30	09			F1B	75 Bd	250H	FSK often
7008.5	0725	06	09			J7D	12x120 Bd	2k70E	CIS12
7010.0	1439	23	09			J3E-L		2k3	LSB: unid language
7010.0	2217	24	09			FMOP	40 sps	12k0E	OTHR; Contayner
7011.0	0900 2139	16 20	09			G1D PSK8	2400 B d	2k70E	short bursts, PSK8 1800Hz single tone modem often
7011.0	2138	20	09			FMOP	40 sps	12k0E	OTHR; Contayner
7015.0	2136	25	09			FMOP	40 sps	12k0E	OTHR; Contayner
7016.0	0656	14	09			F1B		250H	FSK
7018.0	2147	13	09			J7D	12x120 Bd	2k70E	CIS12; long lasting
7020.0	2141	10	09			F1B	75 Bd	250H	FSK
7020.0	1433	23	09			J3E-L		2k3	LSB; unid language
7022.0	1222	30	09			J7D	12x120 Bd	2k70E	CIS12, additional carrier at 7020.0 kHz
7025.0	0747	01	09			F1B	50 Bd	200H	FSK
7030.0	2209	01	09			F1B	75 Bd	250H	FSK; long lasting
7030.0	2144	27	09			FMOP	40 sps	12k0E	OTHR; Contayner

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7039.0	2059	05	09			FMOP	40 sps	12k0E	OTHR; Contayner
7041.0	2141	15	09			FMOP	40 sps	12k0E	OTHR; Contayner
7044.0	2334	29	09			FMOP	40 sps	12k0E	OTHR; Contayner
7048.0	2300	07	09			FMOP	40 sps	12k0E	OTHR; Contayner
7050.0 LSB	1528 1455	01 26	09			J3E-L		ca 3k0E	RUS-UKR Radio War almost daily
7050.0	2134	20	09			FMOP	40 sps	12k0E	OTHR; Contayner
7054.0	1457	25	09			F1B	50 Bd	200H	FSK
7055.0 LSB	1546 1458	08 26	09			J3E-L		ca 3k0E	RUS-UKR Radio War, almost daily
7055.0	2122	08	09			FMOP	40 sps	12k0E	OTHR; Contayner
7059.0	1511	01	09			F1B	75 Bd	250H	FSK
7060.0	2133	15	09			FMOP	40 sps	12k0E	OTHR; Contayner
7061.0	2147	27	09			FMOP	40 sps	12k0E	OTHR; Contayner
7064.0	0001	12	09			FMOP	40 sps	12k0E	OTHR; Contayner
7065.0 LSB	1335	14	09			J3E-L		ca 3k0E	RUS-UKR Radio War almost daily
7079.0 LSB	2191	06	09				30x60B d	2k50E	CHN30 (PRC30); Burst system Pilot tone at 450Hz
7080.0	2023	26	09			F1B	50 Bd	200H	FSK often
7085.0	2127	10	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
7086.0	2358	11	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
7088.0	1031	01	09			F1B	75 Bd	200H	FSK often
7088.0	2149	28	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
7089.0	2329	29	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
7089.8	2131	20	09			G1D PSK-8	2400	ca 2k70E	LINK 11 SLEW often
7097.0 LSB	1517	14	09				30x60B d	2k50E	CHN30 (PRC30); Burst system; Pilot tone at 450Hz
7101.8	2140	09				G1D PSK-8	2400	ca 2k70E	STANAG 4285
7106.0	2143	28	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
7110.0	1634	11	09	ETH		A3E		ca 9k0E	BC: Radio Ethiopia daily
7114.0	2107	04	09	RUS	RDL	F1B	50 Bd	200H	FSK; fading often
7117.0 DSB	2141	20	09			B7D PSK	75 Bd	ca 6k0E	LINK11 CLEW; DSB mode often
7118.0	2025	26	09			J7D	12x120 Bd	2k70E	CIS12
7119.0	1241	06	09			F1B		200H	FSK
7119.0	2205	24	09			J7D	12x120 Bd	2k70E	CIS12; weak, fading
7127.0	2135	08	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
7137.0	2145	25	09			F1B	50 Bd	250H	FSK
7155.0 LSB	2045 2147	05 24	09			PSK-4	30x60B d	2k50E	CHN30 (PRC30); Burst system often Pilot tone at 450Hz
7159.0 USB	2041 2146	05 08	09			G7D DQPSK	75 Bd	ca 2k50E	LINK11 CLEW SSB; 16 tones, spacing 110Hz often
7162.0	1519	01	09			F1B	75 Bd	250H	FSK often
7166.0	2139	08	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7170.0	2135	13	09			F1B	75 Bd	200H	FSK
7171.0 LSB	2102	26	09			PSK-4	30x60B d	2k50E	CHN30 (PRC30); Burst system Pilot tone at 450Hz
7179.0	0907	21	09			F1B	75 Bd	200H	FSK; long lasting
7183.0	2204	28	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
7187.0	2206	20	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
7192.0	2156	01	09			F1B	75 Bd	250H	FSK
7196.0	2307	07	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
7196.0	1532	15	09	RUS		A1B			CW; encrypted; groups of 5
7198.0	2327 0852	29 30	09			J7D		2k70E	CIS12 often
7200.0	0635	06	09			A3E		9k50E	BC: Arabian language; Radio Algerienne
7200.0	1419	08	09			A3E		9k50E	BC: NUR Radio (Taiwan) daily
14000.0	1454 1402	05 14	09		CRI	A3E			China Radio International. Intermodulation from 13855 + 13710 kHz daily
14026.0	0914	15	09			J7D	12x120 Bd	2k70E	CIS12
14101.9	0836	07	09			W7D OFDM60		2k80	OFDM, spacing 44.4Hz
14132.0	1042	21	09			OTHR		12k0E	OTHR; maybe Contayner
14135.0	0832	05	09			F1B	75 Bd	250H	
14136.0	1128	07	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
14147.0	1623	30	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
14160.0	0944	03	09			F1B	75 Bd	200H	FSK
14162.0	0905	21	09			F1B	75 Bd	200H	FSK
14165.0	1625	30	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
14169.0	1502	26	09			F1B		200H	FSK
14171.0	1309	29	09			J7D	12x120 Bd	2k70E	CIS12
14185.0	1711	19	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
14198.5	1221	06	09			ARQ		1200	DPRK PSK system often
14221.0	2115 2111	06 18	09			F1B	50 Bd	200H	FSK; long lasting almost daily
14263.0	0630	20	09			OTHR	10 sps	40k0E	OTHR
14298.4	1311	29	09			ARQ	1200	1200	DPRK PSKsystem often
14303.3	1323	29	09			ARQ		1200	DPRK PSK system often
14350.0	1340	28	09			FMCW	50 sps	20k0E	OTHR; UK base Cyprus; weak
18080.0	0627	02	09			A3E		ca 9k0E	BC: "Sound of Hope", Taiwandaily
18080.0	1443	25	09			FMCW	50 sps	20k0E	OTHR; UK base Cyprus
18107.0	0639 0947	02 29	09	RUS	RDL	F1B	50 Bd	200H	CIS36-50 almost daily very long lasting
18126.0	0849	02	09			FMCW	50 sps	10k0E	OTHR
18126.4	0650	02	09			ARQ		1800	DPRK system
18132.0	1028	21	09			OTHR	X	12k0E	OTHR
18141.0	1151	21	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
18165.0	0921	17	09			FMCW	50 sps	20k0E	OTHR; UK base Cyprus; long lasting
21010.0	0701	02	09			FMCW	50 sps	20k0E	OTHR; UK base Cyprus

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21175.0	0954	25	09			FMCW	50 sps	20k0E	OTHR; UK base Cyprus, long lasting
21240.0	0711	06	09			FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21286.0	0854	18	09			OTHR	41 sps	10k0E	OTHR
21350.0	0939	19	09			FMCW	25 sps	20k0E	OTHR; UK base Cyprus
21423.0	1426	30	09	RUS		FMOP	40 sps	12k0E	OTHR; Contayner
21438.0	0927	19	09	RUS	RCV	A1A		10H	Area of Sevastopol daily
28030.0	1434	25	09			FMCW	50 sps	20k0E	OTHR; UK base Cyprus
28030.0	0928	29	09			FMCW	12.5 sps	40k0E	OTHR, long lasting
28105.0	0948	28				F3E			Short sequences, unid language
28140.0	0917	30	09			FMCW	12.5 sps	40k0E	OTHR
28170.0	0843	16	09			FMCW	25 sps	20k0E	OTHR; UK base Cyprus
28350.0	0841	27	09			FMCW	25 sps	20k0E	OTHR; UK base Cyprus
28600.0	0828 0958	04 25	09	IRN		X	307 + 870 sps	ca 45k	OTHR, Bursts; long lasting sweep rate alternating
28630.0	0844	21	09			FMCW	25 sps	20k0E	OTHR; UK base Cyprus
28710.0	0921	30	09			FMCW	12.5 sps	40k0E	OTHR
28720.0	1153	30	09			FMCW	25 sps	20k0E	OTHR; UK base Cyprus
28860.0	0832 0715	04 14	09	IRN			150 + 313 sps	ca 50k	OTHR, Bursts; long lasting sweep rate alternating often
28950.0	0903	30	09	IRN		X	150 + 313 sps	ca 45k	OTHR; Bursts; sweep rate alternating
29000.0	0947	18	09			FMCW	12.5 sps	40k0E	OTHR; long lasting
29300.0	1209	30	09			X		45k0	OTHR; sweep rate alternating
29355.0	0930	30	09	G		FMCW	25 sps	20k0E	OTHR; UK base Cyprus
29450.0	0859	30	09			X		45k0	OTHR; sweep rate alternating

VERON; Ruud, PG1R. Credit to monitors: Ari, PA3CNK; Rene, PA3EQO

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3527.0	2010	21	09	RUS		F1B			Revs/UiPtr
3548.0	1932	07	09	RUS		F1B			Revs/UiPtr
3596.0	1954	21	09	RUS		A1A			UiCW; Nawip Novorossijsk
3695.5	1930	07	09	RUS		F1B			Revs/UiPtr
7055.0	1919	10	09			J3E-L			RUS/UKR radiowar; two TX same freq; one shouting, the other music & songs.
7062.0	2112	10	09	RUS		RADAR	40	12K0E	OTHR Contayner; CF
7067.0	1918	10	09			J3E-L			RUS/UKR radiowar; Comments; very strong S9+20.
7070.0	1453	14	09			J3E-L			UiLL; RUS/UKR radiowar; loop.
7080.0	1916	10	09	RUS		F1B		200H	Ptr; Kaliningrad
7080.0	2029	11	09	RUS		F1B		200H	Ptr; Kaliningrad
7106.0	2028	10	09	RUS		RADAR	40	12K0E	OTHR Contayner; CF
7114.0	2109	10	09			F1B		200H	UiPtr
10115.0	1450	27	09	RUS		F1B			UiPtr

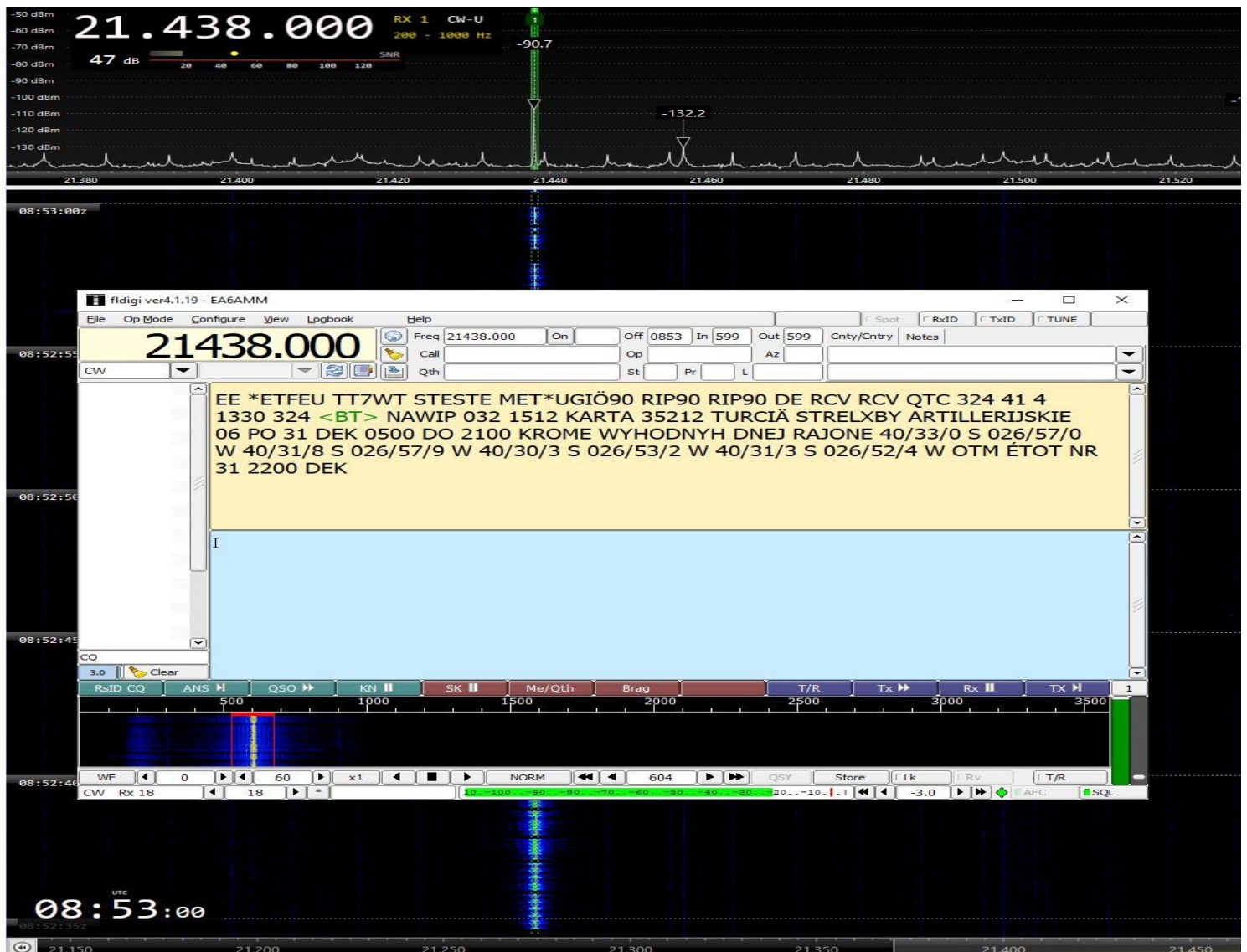
VERON; Ruud, PG1R. Credit to monitors: Ari, PA3CNK; Rene, PA3EQO

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14106.0	1847	10	09	RUS		RADAR	40	12K0E	OTHR Contayner; CF
14170.0	1333	10	09	RUS		RADAR	40	12K0E	OTHR Contayner; CF
18114.0	1100	27	09	RUS		F1B			Revs/UiPtr
21160.0	1521	18	09			J3E-L			Male voic; Greek or Cypriot language.
21240.0	1105	27	09	RUS		F1B			Revs/UiPtr
21436.0	1115	27	09	RUS		F1B			Revs/UiPtr
28450.0	1013	10	09	IRN		RADAR	150 / 313	40K0E	Iranian OTHR; alternating sps 150 and 313; CF.

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

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21438 kHz CF. A1A (CW) RUS MIL „RCV“ QTC (navy). Daily for many years!