

IARU Monitoring System Region 1



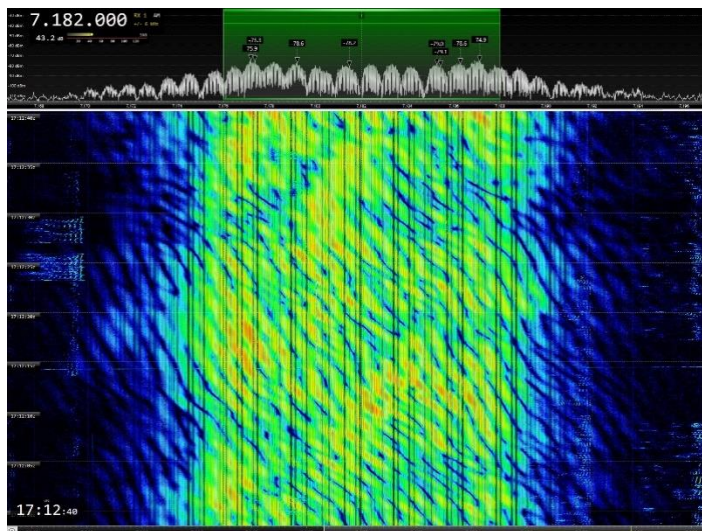
Monthly Newsletter - August 2022

News and info

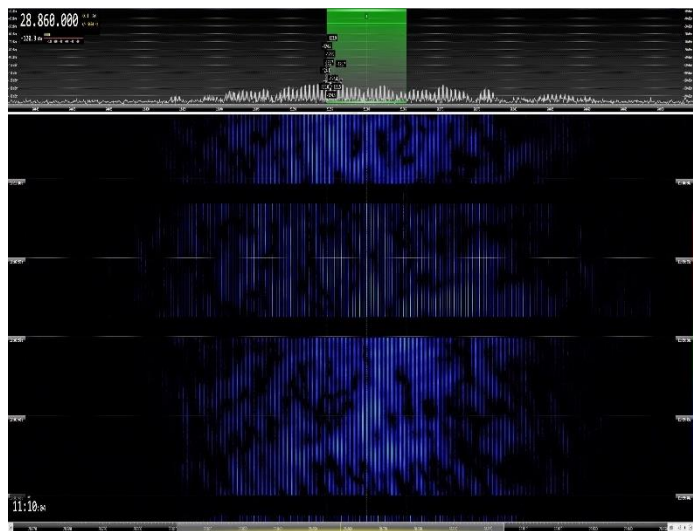
After being initially reported last month, in August several IARU Monitoring System Region 1 National Coordinators have confirmed the reception of A3E (AM) transmissions sent by the broadcasting station "Radio Algérienne" (ALG) on 40 meters (7200 kHz CF) and on 15 meters (21450 kHz CF). Although the carrier of these transmissions is located at the extreme end of these bands, the lower part of the modulation of their signals is received on frequencies allocated to the Amateur Radio Service in these bands, thus constituting intrusions in them.

Along with this station, there are already several broadcasting stations transmitting in the HF amateur bands, such as "Voice of Broad Masses" (ERI) on 7140.02 and 7180 kHz CF, or Ethiopia Radio (ETH) on 7110 kHz CF, among others.

During August there were also numerous reports about transmissions received in the HF bands allocated to the Amateur Radio Service sent by Over The Horizon Radars, such as those located in Russia (Contayner. BW = 12K0E; 40 sps), or in the UK Sovereign Base Area in Akrotiri, in Cyprus (BW = 20K0E; 50 or 25 sps), or such as the Iranian OTHR transmitting daily on the 10 m band (28860 kHz CF. BW ca 46K0E sending bursts alternating 150 and 313 sps., but also on other frequencies in this band using sometimes different sweep rates) or the variety of such radars transmitting from China.



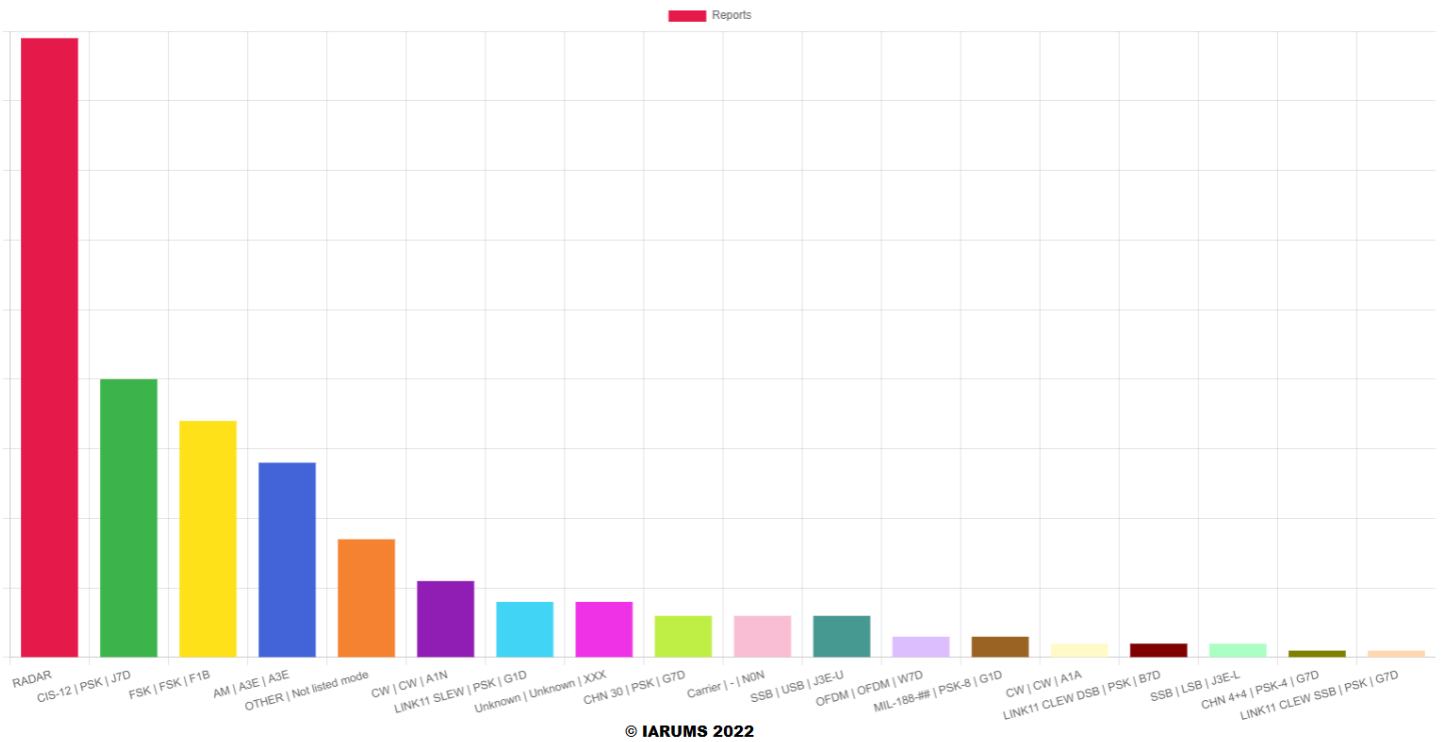
Russian OTHR Contayner on 40 m (BW = 12K0E; 40 sps)



IRN OTHR (BW ca 45K0E; bursts alternating 150 and 313 sps)

Most of the transmissions sent by these radars were reported on the 20 m and 15 m bands, although they were also received on other HF bands. Unfortunately, these transmissions are the most common in our HF amateur radio bands and have been causing the most damage for many years due to the bandwidth and the high powers used and their long - lasting transmissions.

The rest of the signals reported have been constituted mostly by military type emissions in their different modulation modes and by some emissions of still unknown type, whose beginning took place at the end of February 2022.



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: DF5JL, Tom; DL2SCH, Jürgen; DB9EV, Frank; DG3KBQ, Thorsten; F4FPR, Benjamin; DB4TA, Alexander; DG4KM, Kai; DH1YBF, Peter; DL1MKK, Veit; DL4HG, Olaf; DO1LC, Martin; DO5SAS, Sascha; DB3TA, Alex

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6999,8	vt	vd	08	RUS		PSK		2k4	CIS-12
7003,0	1605	08	08	RUS		FMOP	40	12k	OTHR Contayner
7016,0	0051	31	08	RUS		FMOP	40	12k	OTHR Contayner
7031,0	2130	27	08	RUS		FMOP	40	12k	OTHR Contayner
7048,0	2120	11	08	RUS		FMOP	49	12k	OTHR Contayner
7055,0	1705	21	08	UKR		J3E-L		3k	RUS/UKR radio war
7059,8	vt	vd	08	RUS		PSK		2k4	CIS-12
7087,0	1806	20	08						Jammer, moving up and down
7088,0	0607	17	08			A1N			A1N without ID sounds like fast interrupted drops
7088,0	1654	31	08			F1B	75	200	FSK-Traffic
7089,8	vt	vd	08			PSK		2k5	LINK11 SLEW
7100,0	ad	dly	08				50	48k	OTHR 40,8s burst every 5 min
7129,0	2130	27	08	RUS		FMOP	40	12k	OTHR Contayner
7160,8	1823	08	08			PSK		2k4	LINK11 CLEW SSB
7176,0	1655	31	08			F1B		250	FSK-Traffic

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7177,8	1730	13	08	RUS		PSK		2k4	CIS-12
7186,0	2130	27	08	RUS		FMOP	40	12k	OTHR Contayner
7188,0	1731	08	08	RUS		FMOP	40	12k	OTHR Contayner
7194,0	2036	31	08	RUS		FMOP	40	12k	OTHR Contayner
7198,5	1014	21	08			PSK8A	2400	2400	STANAG-4285
7200,0	vt	vd	08	ALG		A3E		10k	Telediffusion d'Algerie
14091,0	1808	08	08	RUS		FMOP	40	12k	OTHR Contayner
14105,0	1827	08	08	RUS		FMOP	40	12k	OTHR Contayner
14105,0	1725	13	08	RUS		FMOP	40	12k	OTHR Contayner
14111,0	1907	12	08	RUS		FMOP	40	12k	OTHR Contayner
14111,0	1812	21	08	RUS		FMOP	40	12k	OTHR Contayner, alternating every 65 sec between 14.111 and 14.123 kHz
14115,0	0612	28	08	RUS		FMOP	40	12k	OTHR Contayner
14123,0	1811	21	08	RUS		FMOP	40	12k	OTHR Contayner
14127,0	1439	08	08	RUS		FMOP	40	12k	OTHR Contayner
14140,0	1238	22	08	RUS		FMOP	40	12k	OTHR Contayner
14152,0	0934	28	08	RUS		FMOP	40	12k	OTHR Contayner
14153,0	0626	04	09	RUS		FMOP	40	12k	OTHR Contayner
14154,0	1026	28	08	RUS		FMOP	40	12k	OTHR Contayner
14155,0	1333	23	08	RUS		FMOP	40	12k	OTHR Contayner
14167,5	1255	14	08			J3E-U		3k	RUS/UKR radio war
14172,0	1259	14	08			J3E-U		3k	RUS/UKR radio war
14177,0	1016	31	08			J3E-U			Jammer on russian HAMs
14178,0	0912	28	08	RUS		FMOP	40	12k	OTHR Contayner
14180,0	1857	21	08	RUS		FMOP	40	12k	OTHR Contayner
14185,0	1858	17	08	RUS		FMOP	40	12k	OTHR Contayner
14186,0	1037	21	08	RUS		FMOP	40	12k	OTHR Contayner
14187,0	0912	28	08	RUS		FMOP	40	12k	OTHR Contayner
14190,0	1119	21	08	RUS		FMOP	40	12k	OTHR Contayner
14191,0	1518	06	08	RUS		FMOP	40	12k	OTHR Contayner
14193,0	1638	10	08	RUS		FMOP	40	12k	OTHR Contayner
14264,0	1405	08	08	RUS		FMOP	40	12k	OTHR Contayner
14289,5	0819	31	08					1k5	ARQ probably embassy radio North Korea DVKR
14297,0	1845	31	08	RUS		FMOP	40	12k	OTHR Contayner
18060,0	0840	14	08	CYP		FMCW	50	20k	OTHR Pluto Cyprus
18070,0	0856	27	08	CYP		FMCW	50	20k	OTHR Pluto Cyprus
18157,0	0946	24	08	RUS		FMOP	40	12k	OTHR Contayner
21121,0	1945	15	08			J3E-U			fishermen, arabic language
21187,0	1817	15	08					9k7	DRM Broadcast
21280,0	1100	08	08	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21288,0	1835	17	08	RUS		FMOP	40	12k	OTHR Contayner
21366,0	0742	14	08	CHN		FMCW	41,67	10k	OTHR 6,1s bursts
21400,0	0740	14	08	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21410,0	0650	17	08	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21450,0	vt	vd	08	ALG		A3E		10k	Telediffusion d'Algerie

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
29450,0	1115	21	08	IRN			150/31 3	45k	Iranian OTHR 9,97/7,19s bursts

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3560	1435	5	8	HOL or MM		USB			Group of Dutch fishermen. Loud motor noise from several ships. All signals very strong.
3640	2020	26	8	UKR /RU S		LSB			"Putin pederatski" "Putin khuilo". Loud music. Persistent and very strong signal. Racket goes on until 2200z.
3640	635	28	8	E or MM		USB			Spanish fishermen. Very strong signals.
3669	2250	21	8	UKR / RUS		LSB			A male voice keeps shouting non stop "Raschist" " Russenschwein" and "Putin khuilo"! Loud music in the background. Still on an hour later.
3760	1815	25	8	F		LSB			Shouting of profanities in French. Same person as last winter.
7003.5	2300	13	8			PSK			Very strong and persistent signal.
7034.5	2310	13	8			PSK			Huge and persistent signal.
7037	2240	21	8			RADAR			Radar from 7037 to 7060 kHz. Strong and persistent.
7050	2315	13	8			RADAR			Radar from 7050 to 7074 kHz. Strong and persistent.
7055	2310	14	8	RUS / UKR		LSB			Russian- Ukrainian radio war. Loads of agitprop. Very strong and persistent signals. All day every day.
7061.5	1650	17	8			PSK			Very strong and persistent signals.
7088.5	2015	26	8	RUS		FSK			RUS navy Kaliningrad. Very strong and persistent. Still on 31 st at 1230z.
7090.5	2305	14	8			PSK			Very strong and persistent signals.
7110	1745	11	8	ETH		AM			Radio Ethiopia. Very weak signal. Heard a few times.
7112	2245	21	8			RADAR			Radar from 7112 to 7140 kHz. Strong and persistent.
7174	1750	11	8			RADAR			Radar from 7174 to 7188 kHz. On and off, medium signal.
7177	1300	31	8			FSK			Medium signal, persistent.
7200	445	12	8	ALG		AM			RTA Alger in Arabic. Huge signal. Music and chat. Heard for some hours until fade out.
14000	1400	15	8	CHN		AM			China Radio International, daily from 1400 to 1700. Mixing product of transmissions on other frequencies.
14130	1440	5	8			RADAR			Radar from 14130 to 14163 kHz. Strong and persistent.

IRTS; Michael, EI3GYB									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14142	1000	28	8			RADAR			Radar from 14142 to 14158 kHz. Strong and persistent.
14148	1210	21	8			RADAR			Radar from 14148 to 14172 kHz.
14170	1225	31	8			RADAR			Radar from 14170 to 14200 kHz. Huge and persistent.
14172	1210	13	8			RADAR			Radar from 14172 to 14188 kHz. Strong and persistent.
14173	1225	17	8			RADAR			Radar from 14173 to 14200 kHz. Huge and persistent.
14180	1145	22	8			RADAR			Radar from 14180 to 14194 kHz. Medium signal, persistent.
14182	1405	14	8			RADAR			Radar from 14182 to 14197 kHz. Weakish.
14208	1100	13	8			RADAR			Radar from 14208 to 14222 kHz. Medium signal. Persistent.
14220	2120	21	8			F1B			Strong and persistent.
14224	1205	13	8			RADAR			Radar from 14224 to 14238 kHz. Weak but persistent.
14240.5	1315	3	8			PSK			Huge and persistent.
14297	1240	31	8			PSK			North Korean embassy traffic.
14300	1330	15	8			RADAR			Chinese foghorn. Weak but persistent. Moving around.
14325	1140	24	8			PSK			Strong, on and off.
14338	1535	31	8			RADAR			Chinese foghorn 14338 to 14350 kHz. On and off. Weak signal.
14340.5	1550	6	8			F1B			Medium signal, on and off.
18146	1025	15	8	British Cyprus		RADAR			Radar from 18146 to 18180 kHz. Huge and persistent. "Pluto"
21000	1310	3	8	E or MM		USB			Group of Spanish fishermen. Heard often with weak signals.
21150	2150	2	8	E or MM		USB			Spanish fishermen. Galician accent. Strong signals. Happily chatting away.
21197	915	8	8			RADAR			Radar from 21197 to 21220 kHz.
21198	1215	31	8			RADAR			Radar from 21198 to 21218 kHz. Weak but persistent.
21246.5	1215	17	8			PSK			Medium signal, persistent.
21265	1430	8	8	British Cyprus		RADAR			Radar from 21265 to 21290 kHz. Huge and persistent signals. "Pluto"
21438	1300	3	8	Ukraine		CW			Russian navy Sevastopol. Weak to medium signal. Nearly daily all day long.
21450	1530	15	8	ALG		AM			RTA Alger in Arabic. Huge persistent signal, splattering down to 21443 kHz. Still on at 1700z. Also on 17 th as of 1300z.

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
28860	1430	5	8	IRN		RADAR			Radar from 28860 to 28880 kHz. Very weak in AM mode.

OeVSV; Christoph, OE1VMC

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21280	1155	8	8	G		RADAR		20K0E	

PZK; SP3AMO, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7007.0	1923	31	08			F1B		250	S9+26dB
7008.0	vt	30	08			F1B		200H	
7058.0	1515	8	08			F1B		250H	
7060.0	vt	vd	08			CIS-12		2K7	S9 pilot 7061.3
7088.0	vt	vd	08			F1B	50	200H	
7090.0	0855	04	08			J3E-L		2K7	S9 Anti-Russian radio war
7176.0	1925	31	08			F1B		250	S9
10133.0	1516	8	08			PSK	120	2K70E	
14026.0	0930	29	08			CIS-12		2K7	S8
14047.0	0728	17	08			UI		4K0E	
14087.0	0805	10	08			RADAR		16K0E	S9
14087.0	1735	10	08			RADAR		8K0E	S7
14097.1	0948	29	08			UI		200	S7
14110.0	0915	17	08			RADAR		16K0E	S9 moved to 14120.0, then stopped
14110.0	1335	21	08			RADAR		10K0E	S6
14114.0	1255	05	08			RADAR		10K0E	S5
14118.0	0915	17	08			CIS		2K7	S9+
14120.0	0852	04	08			RADAR		8K0E	S6 burst
14123.0	0906	18	08			RADAR		10K0E	S6
14148.0	1353	06	08			RADAR		10K0E	S6-7 also at 14158.0
14170.0	1315	03	08			RADAR		10K0E	S7 short bursts
14172.0	2123	20	08			RADAR		14K0E	S8 in parallel at 14190.0 and 14146
14176.0	19:20	06	08			J3E-U		2K7	S9 Anti-Russian text childish voice
14185.0	0850	04	08			RADAR		8K0E	S8 burst
14190.0	0925	09	08			RADAR		8K0E	S8 burst
14202.0	vt	10	08			RADAR		10K0E	S7 short bursts
14220.0	1500	5	08			Radar	40	16K0E	15.04 UTC QRT
14242.0	1316	03	08			UI		3K0E	S9+ noisy! 13:19 finished
14264.0	1522	8	08			Radar	40	12K0E	
14295.0	1025	09	08			RADAR		30K0E	S9 + 30 dB!
14296.0	1855	31	08			RADAR		14K0E	S6
14302.0	0910	17	08			CIS		2K7	S7
14298.5	1240	01	08			RTTY		600	S9
14298.5	vt	vd	08			UI		1K2	S6 periodic bursts 2 times per second
14306.0	0905	18	08			RADAR		10K0E	S7 short bursts
14323.0	0905	05	08			RADAR		10K0E	S7 short bursts

PZK; SP3AMO, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14324.0	1235	05	08			F1B		200	S9
14326.0	0740	14	08			RADAR		12K0E	S9 burst
18080.0	0743	14	08			A3E		6K0E	S7 radio sound like Chinese
18100.0	0920	02	08			RADAR		20K0E	S9
18135.0	0921	02	08			J3E-U		2K7	S5 music
18165.0	0908	05	08			RADAR		20K0E	S9+ partially in the band
18167.0	vt	vd	08			RADAR		14K0E	S8
18168.0	1000	04	08			RADAR		20K0E	S9+ partially in the band
18175.0	0910	31	08			RADAR		20K0E	partially in the band
21176.0	1400	20	08			RADAR		14K0E	S7
21280.0	1103	08	08			RADAR		20K0E	S9+10dB
21280.0	1524	8	08			RADAR	50	20K0E	
21335.0	0900	31	08			RADAR		20K0E	S7
21357.0	0950	04	08			RADAR		10K0E	S7 short bursts
21386.0	0749	14	08			RADAR		8K0E	S5 burst
21400.0	0740	vt	vd			RADAR		20K0E	S5
21450.0	1217	06	08			RADAR		20K0E	S6
28265.0	0815	10	08			F3E		8K0E	voices in Russian - radio taxi?
29400.0	0920	09	08	IRN		RADAR		60K0E	S5
29450.0	vt	vd	08	IRN		RADAR		60K0E	S5

REF; Francis, F5MIU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21280	1615	8	08			fmcw	50	20kHz	OTH Radar pulsed 20ms, S9+
14275	1619	8	08			fmcw	40	18kHz	OTH Radar pulsed 25ms, S9+20
21450	1628	15	08			AM		10kHz	Arabic broadcasting S9+10
14110	0800	17	08			fmcw	40	12kHz	OTH Radar pulsed 25ms, S8
14110 / 14125	1600	14	08			fmcw	40	12kHz	OTH Radar pulsed 25ms, S9 Shifting frequencies
14182	1640	18	08			fmcw	40	12kHz	OTH Radar pulsed 25ms, S9+10
14140	0742	20	08			fmcw	40	12kHz	OTH Radar pulsed 25ms, S9+10
14110 - 14125	1618	20	08			fmcw	40	12kHz	OTH Radar pulsed 25ms, S9 +10 shifting frequencies
14160	1607	23	08			fmcw	40	12kHz	OTH Radar pulsed 25ms, S9 +10
14190	1607	23	08			fmcw	40	12kHz	OTH Radar pulsed 25ms, S9 Simultaneously with above
14190	0754	24	08			fmcw	40	25kHz	OTH Radar pulsed 25ms, S9
18165	1517	25	08			fmcw	40	20kHz	OTH Radar pulsed 25ms, S9
21450	1616	25	08			AM		8kHz	Arabic broadcasting station S9+
14125	0800	29	08			fmcw	40	15kHz	OTH Radar pulsed 25ms, S9 shifting frequencies
14125	1617	30	08			fmcw	40	15kHz	OTH Radar pulsed 25ms, S9 +
18140	0756	31	08			fmcw	40	15kHz	OTH Radar pulsed 25ms, S7
14120	0800	31	08			fmcw	40	15kHz	OTH Radar pulsed 25ms, S9 +10 shifting frequencies
14190	1456	31	08			fmcw	40	15kHz	OTH Radar pulsed 25ms, S9+10

RSGB; Richard, G4DYA									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3510.0	2100	03	08			J3E		2K70E	USB 'The Air Horn'. Daily. Also heard 172014z, 232001z.
3756.0	2100	03	08			J3E		1K70E	USB 'The Pip'. Daily. Also heard 172014z, 232001z.
6998.0	0643	05	08					7K00E	Unidentified
7004.7	1711	29	08					2K60E	Unidentified bursts
7008.0	0837	30	08			F1B		250	FSK
7018.0	1659	29	08			J7D		2K70E	USB 7016.0 / CIS-12
7018.9	0720	06	08			NON			Plain carrier, possibly idling F1B. Also heard 070613z, 080524z.
7025.0	0619	31	08			F1B		200	FSK
7029.0	0721	06	08					1K00E	Unidentified
7054.0	2120	22	08			F1B		400	2nd harmonic of 3527.0 kHz. Also heard 232003z.
7060.0	0656	01	08			J7D		2K70E	USB 7058.0 / CIS-12. Also heard 020713z, 032101z, 050657z, 060714z, 070614z, 171541z, 180753z, 190711z, 201718z.
7065.9	1800	23	08			NON			Plain carrier. Probably 7066.0 idling F1B. Also heard 241857z.
7068.0	0726	25	08			J7D		2K70E	USB 7066.0 / CIS-12
7074.983	2057	03	08			A1N			Continuous groups of 16 dashes. Also heard 050700z, 060724z, 151650z, 171910z, 190713z, 220745z, 231802z, 250724z, 270854z.
7088.0	0615	07	08			F1B		200	FSK. Also heard 310621z.
7089.8	0543	22	08			G1D		2K40E	Link 11 SLEW. Also heard 231804z.
7110.0	1757	08	08	ETH	R. Ethiopia	A3E			AM broadcasting. Also heard 151641z, 211748z, 231756z, 291700z.
7159.0	0717	06	08			B7D		6K00E	DSB / Link 11 CLEW. Also heard 070616z.
7176.0	0618	31	08			F1B		250	FSK
7188.0	1738	08	08	RUS		PON	40	12K0E	Container pulse radar. Also heard 191850z.
7198.85	2048	03	08					3K30E	Unidentified
14111.0	0832	21	08	RUS		PON	40	12K0E	Container pulse radar
14116.0	0741	01	08			F1B		250	
14123.0	0829	21	08	RUS		PON	40	12K0E	Container pulse radar
14148.0	0747	22	08	RUS		PON	40	12K0E	Container pulse radar
14163.0	1214	23	08	RUS		PON	40	12K0E	Container pulse radar
14171.0	0808	01	08			J7D		2K70E	USB 14169.0 / CIS-12
14176.0	0741	18	08	CHN		F3N	66.7	10K0E	FMCW radar bursts
14185.0	1905	17	08	RUS		PON	40	12K0E	Container pulse radar
14191.0	1214	23	08	RUS		PON	40	12K0E	Container pulse radar
14193.0	0723	05	08			J7D		2K70E	USB 14191.0 / CIS-12
14198.0	0745	18	08	CHN		F3N	66.7	10K0E	FMCW radar bursts
14240.0	0914	27	04			F1B		250	FSK.
14252.0	0747	18	08	CHN		F3N	66.7	10K0E	FMCW radar bursts

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14258.0	0714	01	08			F1B		500	FSK. Ceased 0717z.
14264.0	1410	08	08	RUS		P0N	40	12K0E	Container pulse radar
14290.0	0749	18	08	CHN		F3N	66.7	10K0E	FMCW radar bursts
14293.0	1853	24	08	CHN		F3N	41.7	10K0E	FMCW radar bursts
14302.0	0750	18	08	CHN		F3N	66.7	10K0E	FMCW radar bursts
18060.0	0635	05	08	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
18065.0	0717	24	08	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
18070.0	0847	27	08	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
18080.0	0725	02	08			A3E			AM broadcasting. Daily. Also heard 050709z, 160728z, 240727z.
18138.0	0741	28	08	CHN		F3N	50	10K0E	FMCW radar bursts
18140.0	1028	16	08	CHN		F3N	41.7	10K0E	FMCW radar bursts
18145.0	0731	16	08	CHN		F3N	50	10K0E	FMCW radar bursts
18164.0	0711	06	08	RUS		P0N	40	12K0E	Container pulse radar
18168.0	0931	22	08	RUS		P0N	40	12K0E	Container pulse radar
20985.0	1025	27	08			F3N	12.5	40K0E	FMCW radar, 20965-21005 kHz
21280.0	1408	08	08	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21450.0	1638	15	08			A3E		9K60E	AM broadcasting
21452.0	0716	05	08	RUS		P0N	40	12K0E	Container pulse radar
21455.0	1034	16	08			A3E		15K0E	AM broadcasting

RSK; Kamweti, 5Z4BV

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3760	1529	31	8			?		10k	unstructured emission
7000	vt	vd	8	KEN		PSK		2K5E	STANAG 4285
7060	vt	7	8	KEN		PSK		2K5E	STANAG 4285
7105	vt	24	8			CHN	60Bd	PSK	PRC 30
7110	vt	dly	8	ETH		A3E		22kE	Radio Ethiopia National Service
7120	0558	21	8	?		J3E-U		2k	Kiswahili msg net
7150	vt	dly	8	KEN		MFSK	128	2k2	2G ALE
7165	1545	30	8	?		J3E-U		2k	Indo-Asian' vernacular QSO
7200	1423	17	8	?		A3E		10k2E	Commercial broadcast, east Asia
10133	vt	vd	8			FMOP		?	OTHR
14305	1538	31	8			FMOP	50 sps	0.5K	short burst ~50 SPS
21435	1433	17	8			FMOP	40 sps	15k0E	

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7 MHz	1730-0430	05 08	8	RUS		RADAR	40sps	13k0E	(WebSDR 25d)
7000.0	0400-1845	01 - 07	8	RUS		N0N			
7000.0	0345-1830	12 13	8	RUS		J7D	120	2k60E	
7006.5	1010-1025/	18	8	RUS		F1A	23 wpm	500H	5F

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7008.0	0500-2115	*	8	RUS		F1A		250H	*) Days: 2. 16. 30.
7009.5	0620-0935	10	8	RUS		J7D	120	2k60E	
7015.0	1005-1009/	09	8	RUS		A1A	17 wpm	40H	5F, radioprognoz
7016.0	0610-1810	30	8	RUS		F1B		250H	
7018.0	1620-1710/	29	8	RUS		J7D	120	2k60E	
7019.0	0500-1545	*	8	RUS		F1B/ NON		200H	*) Days: 2. 5. - 10.
7020.0	0500-0530	02	8	RUS		F1B		250H	
7022.0	0430-1630	04 11	8	RUS		J7D	120	2k60E	
7025.0	0730	09	8	RUS		J7D	120	2k60E	
7025.0	0500-1350	*	8	RUS		F1A/B		200H	*) Days: 26. 28. - 31.
7054.0	0500-0535	23 25	8	RUS		F1B		400H	
7058.0	1545-1600	08	8	RUS		F1B/ NON		250H	
7060.0	0000-2400	*	8	RUS		J7D	120	2k60E	*) Days: 1. - 7. 16. - 20.
7068.0	0730-1300	15 23	8	RUS		J7D	120	2k60E	
7072.0	0700-1300	13	8	RUS		J7D	120	2k60E	Carrier on 7070 kHz
7088.0	0415-1815	*	8	RUS		F1B		200H	*) Days: 6. 7. 11. 19. 23. 26. 30. 31.
7102.0	0515-1315	27 28	8	RUS		F1B		200H	
7104.0	1330-1350/	22	8	RUS		J7D	120	2k60E	Carrier on 7102 kHz
7110.0	1600-1810/	02 - 30	8	ETH	R. Ethiopia	A3E		9k0	On 20. until 1820/
7140.0	1700-1845/		8	ERI	VoBME	A3E		9k0	+20Hz offset, not heard
7159.0	0700-1345	06	8	IW		G7D-u		2k40E	North Sea
7160.0	0730	16	8	RUS	RBL88	A1A		40H	
7162.0	0945-1920	23	8	RUS		F1B		250H	
7169.0	1030-1630	04 10	8	RUS		J7D	120	2k60E	
7170.0	1630-1830	10	8	RUS		F1B		200H	
7176.0	0610-1920	31	8	RUS		F1B		250H	

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7186.0	0815-0845	02	8	RUS		J7D	120	2k60E	Carrier on 7184 kHz
7191.0	0810	05	8	RUS	RMP	A1A	16 wpm	40H	Calls REO
7200.0	1200-1500/	01 - 31	8	TWN		A3E		9k0	National Unity Radio to Korea
7200.0	0400-0500/	*	8	ALG		A3E		9k0	*) Days: 2. 4. 5. 7. - 13. 15. 16. 18. - 20-24. 25. 27. 28. 31. on 20 until 0550/
10 MHz			8	G		RADAR	50sps	20k0	(WebSDR 2d)
10 MHz	1350-1820	*	8	RUS		RADAR	40sps	13k0E	*) Days: 5. 8. 15. (WebSDR 16d)
14 MHz	0415-2200	*	8	RUS		RADAR	40sps	13k0E	*) Days: 2. 3. 4. 6. - 14. 16. 17. 20. - 24. 26. - 31. (WebSDR 31d)
14 MHz	0730-1800	*	8	CHN		RADAR	50/67sps	10k0E	*) Days: 3. 4. 6. - 10. 12. 15. 17. 18. 20. 21. 24. 25. 27. 28. 30. 31. 'foghorn'
14000.0	1357-1457/	01 - 31	8	CHN	CRI	A3E		9k0	Tx intermodulation, //13710 & 13855 kHz
14008.0	0500-1300	*	8	RUS		F1B		250H	*) Days: 4. 6. 7. 9.
14026.0	0710-0830	03 07	8	RUS		J7D	120	2k60E	
14102.0	1040	20	8	RUS		J7D	120	2k60E	
14186.0	1355-1430	01	8	RUS		F1B		500H	
14191.0	0915-1300	06	8	RUS		J7D	120	2k60E	
14221.0	0400-0600/	01 - 31	8	KAZ		F1B		200H	
14240.0	0650-0930/	27 30	8	RUS		F1B		250H	
14292.0	0735-1520	*	8	RUS	YWON etc	A1A		40H	
14333.0	1300	31	8	RUS		A1A	12 wpm	40H	5BL
18 MHz	0445-1545	*	8	G		RADAR	25/50sps	20k0	*) Days: 1. 2. 4. 5. 11. 12. 14. 15. 16. 22. 27. 29. (WebSDR 12d)
18 MHz	0740-1000	27 31	8	RUS		RADAR	40sps	13k0E	(WebSDR 9d)
18080.0	0710-0800	*	8	TWN		A3E		9k0	*) Days: 6. 20. 28.
21 MHz	0430-1630	*	8	G		RADAR	25/50sps	20k0	*) Days: 5. 6. 8. 9. 11. - 15. 17. 29. 31. (WebSDR 14d)
21 MHz	0915-1015	16	8	RUS		RADAR	40sps	13k0E	(WebSDR 4d)
21 MHz	0415-1200	*	8	CHN		RADAR	50/67sps	10k0E	*) Days: 7. 15. 23. 25. 'foghorn'
21438.0	/0830-1045	*	8	RUS	RCV	A1A	20 wpm	40H	*) Days: 5. - 7. 10. 13. 15. 16. 20. - 22. 27. - 29. 31.
21450.0	1300-1730	*	8	ALG		A3E		9k0	*) Days: 15. 26. 30.

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
28 MHz	1245-1400	04	8	G		RADAR	50sps	20k0	(WebSDR 1d)
28 MHz	0630-1200	*	8	IRN		RADAR	150/313	60k0E	*) Days: 7. 20. 29. (WebSDR 2d)
28 MHz	0910-1100	*	8	IRN		RADAR	310/870	120k0E	*) Days: 4. 13. 22. (WebSDR 2d)
28860.0	0500-1800	*	8	IRN		RADAR	150/313	60k0E	*) Days: 1. 2. 4. 5. 6. 9. 10. 11. 13. - 16. 20. - 23. (WebSDR 4d)
28 MHz	0530-1515	*	8	RUS	Taxi disp.	F3E		3k0E	*) Days: 5. 18. 20. 23. 25. 46 reports

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7000.0	2252	06	08			N0N		10H	long lasting carrier, fading often
7000.0	0506	13	08			J7D	12x120 Bd	2k70E	CIS12; long lasting; often
7001.7	1721	31	08			XXX		ca 320H	short bursts
7004.8	1600	13	08			G1D PSK8	2400 Bd	ca 2k4	short bursts; PSK 1800 single tone modem as per MIL 188-xxx often
7006.8	1643	21	08			G1D PSK8		ca 2k40E	short burst's, short intro
7007.0	2131	31	08			FSK	75	250H	FSK
7008.0	0718	30	08			F1B	75 Bd	250H	FSK; long lasting
7010.0	0647	24	08			J7D	12x120 Bd	2k70E	CIS12; idling
7016.0	1852	30	08			F1B	75 Bd	250H	FSK
7017.0	0634	24	08			XXX		ca 5k0E	most likely Jammer
7018.0	1654	29	08			J7D	12x120 Bd	2k70E	CIS12; BPSK
7022.0	0918	07	08			J7D	12x120 Bd	2k70E	CIS12
7025.0	0728 0749	30 31	08			F1B	50 Bd	200H	FSK often
7036.0	1908	30	08			F1B		250H	FSK
7050.0	1551	31	08			J3E-L		ca 2k70	RUS-UKR radio war
7054.0	1157	15	08			F1B	50 Bd	400H	FSK, 2 nd of 3527 kHz
7055.0	1606	31	08			J3E-L		ca 2k70	RUS-UKR radio war
7058.0	2201	31	08			FMOP	40 sps	12k0E	OTHR; Contayner
7060.0	2240 0741	06 26	08			J7D	12x120 Bd	2k70E	CIS12; long lasting often
7074.98	0721	19	08			A1N			groups of 16 dashes only often
7088.0	2229 0727	06 31	08			F1B	75 Bd	200H	FSK often
7089.8	1309 0655	09 10	08			G1D PSK-8	2400	ca 3k0E	LINK 11 SLEW often
7090.0	2126	29	08			FMOP	40 sps	12k0E	OTHR; Contayner
7110.0	1301	11	08			F1B		200H	FSK
7110.0	1457	28	08	ETH		A3E		ca 9k0E	BC: Radio Ethiopia often

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7114.0	2142	31	08			F1B	50 Bd	200H	FSK
7116.0	1023	30	08			F1B	75 Bd	200H	FSK
7123.0 LSB	0859	08	08				30x60Bd	2k50E	CHN30; Burst system; Preamble 4x PSK4 60Bd; Pilot tone at 450Hz
7155.0 LSB	9747	26	08			PSK-4	30x60Bd	2k50E	CHN30 ; Burst system; Preamble 4x PSK4 60Bd; Pilot tone at 450Hz
7159.0 LSB	1204 2229	15 17	08			PSK-4	30x60Bd	2k50E	CHN30 ; Burst system; Preamble 4x PSK4 60Bd; Pilot tone at 450Hz
7159.0 USB	2209	16	08			G7D DQPSK	75 Bd	ca 2k50E	LINK11 CLEW SSB; 16 tones, tone-spacing 110Hz often
7162.0	0729	31	08			F1B	75 Bd	250H	FSK often
7171.0 LSB	1549	21	08			PSK-4	30x60Bd	2k50E	CHN30; Burst system; Preamble 4x PSK4 60Bd; Pilot tone at 450Hz
7176.0	0741	31	08			F1B	50 Bd	250H	FSK
7186.0 LSB	1701	29	08			PSK-4	30x60Bd	2k50E	CHN30; Burst system; Preamble 4x PSK4 60Bd; Pilot tone at 450Hz
7196.0	2214	31	08			FMOP	40 sps	12k0E	OTHR; Contayner
7200.0	1434 1444	07 28	08		NUR	A3E		ca 9k0E	National Unity Radio Taiwan; lower sideband in 40m band often
14000.0	1448	07	08		CRI	A3E			China Radio International. intermodulation 13855 + 13710 kHz often
14026.0	0852	26	08			J7D	12x120Bd	2k70E	CIS12
14068.0	1640	19				XXX		ca 7 kHz	unknown signal, maybe Jammer?
14098.5	0702	19	08			ARQ	600/ 1200Bd	600H 1200H	DPRK ARQ system (FSK or PSK)often
14101.9	0845 0756	16 25	08			W7D OFDM	30 Bd	2k80	OFDM60; - PSK4, spacing 44.4Hz
14112.0	0840	26	08			FMOP	40 sps	12k0E	OTHR; Contayner
14116.0	1022	30	08			F1B	75 Bd	200H	FSK
14123.0	1349	31	08			FMOP	40 sps	12k0E	OTHR; Contayner
14126.0	0854	26	08			J7D	12x120Bd	2k70E	CIS12
14155.0	1431	27	08			FMOP	40 sps	12k0E	OTHR; Contayner
14162.0	1639	23	08			FMOP	40 sps	12k0E	OTHR; Contayner
14164.0	0932	08	08			FMOP	40 sps	12k0E	OTHR; Contayner
14166.0	1329	14	08			FMOP	40 sps	12k0E	OTHR; Contayner
14167.5	1317	14	08			J3E-U		ca 2k7E	RUS-UKR Radio War, female voice
14172.0	1305	14	08			J3E-U		ca 2k7E	RUS-UKR Radio War, female voice
14180.0	0853	12	08			FMOP	40 sps	12k0E	OTHR; Contayner
14183.0	0924	22	08			FMOP	40 sps	12k0E	OTHR; Contayner
14188.0	1319	14	08			FMOP	40 sps	12k0E	OTHR; Contayner
14189.0	1339	31	08			FMOP	40 sps	12k0E	OTHR; Contayner
14191.0	1620	23	08			FMOP	40 sps	12k0E	OTHR; Contayner
14196.0	1324	14	08			FMOP	40 sps	12k0E	OTHR; Contayner
14221.0	0520	13	08			F1B	50 Bd	200H	FSK
14221.0	0521	13	08			F1B	50 Bd	200H	FSK; long lasting

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
	2243	23							almost daily
14246.0	0839	19	08			OTHR	66.66 sps	10k0E	OTHR, bursts
14264.0	1333	08	08			FMOP	40 sps	12k0E	OTHR; Contayner
14298.5	0842 1354	19 24	08			ARQ FSK	600 Bd	600H	DPRK FSK ARQ system often
14323.0	1526	23	08			FMCW	50 sps	10k0E	OTHR; Bursts
14326.9	1128	24	08			W7D OFDM 60	30 Bd	2k80E	OFDM 60 - PSK4, spacing 44.4Hz
14341.3	1439	07	08				75 Bd	ca 2k40E	CHN 4+4: 8 tones PSK-4 75Bd, spacing 300Hz; 450Hz between the 2 tones in the middle
18070.0	1126	15	08	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
18080.0	0638 0703	09 24	08			A3E			BC: Sound of Hope, Taiwan daily
18128.0	0937	29	08			OTHR	50 sps	10k0E	OTHR; Bursts
18168.0	0944	29	08			FMOP	40 sps	12k0E	OTHR; Contayner, partially in 17m band
21110.0	0858	23	08	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21150.0	0620	09	08	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21160.0	1331	15	08	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21210.0	0921	31	08	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21280.0	1225	08	08	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21390.0	0634	09	08	G		FMCW	25 sps	20k0E	OTHR; UK base Cyprus
21438.0	0907	19 29	08	RUS	RCV	A1A		10H	Area of Sevastopol almost daily
21450.0	1715	15	08	ALG		A3E		9k0E	BC; Radio Algerienne
28860.0	0716	25	08	IRN		X	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
3596.0	1935	28	08	RUS		A1A			UiCW; 5BL
7050.0	1819	20	08			J3E-L			Male voice & music/songs; presumably UKR/RUS radio war
7055.0	1721	28	08			J3E-L			UKR/RUS radio war
7060.0	0911	19	08	CIS		J7D		2K70E	CF; CIS-12 system
7060.5	1803	20	08	CIS		J7D		2K70E	CF; CIS-12 system
7065.0	1815	28	08			J3E-L			UKR/RUS radio war; male voice; slogans
7070.0	1818	28	08			J3E-L			UKR/RUS radio war; music & slogans
7087.0	1759	20	08					8K0E	CF; Unknown mode; short bursts
10120.0	1055	11	08	RUS		F1B			Revs/UiPtr
10122.0	1024	21	08	RUS		F1B			Revs; UiPtr
14108.0	0956	11	08	RUS	JSGH	A1A			IQLM DE JSGH Calls
14108.0	0820	21	08	RUS		A1A			UiCW; MMMMM 5BL
14108.0	1038	21	08	RUS	MPCH	A1A			Calls to: JGLK M9P4

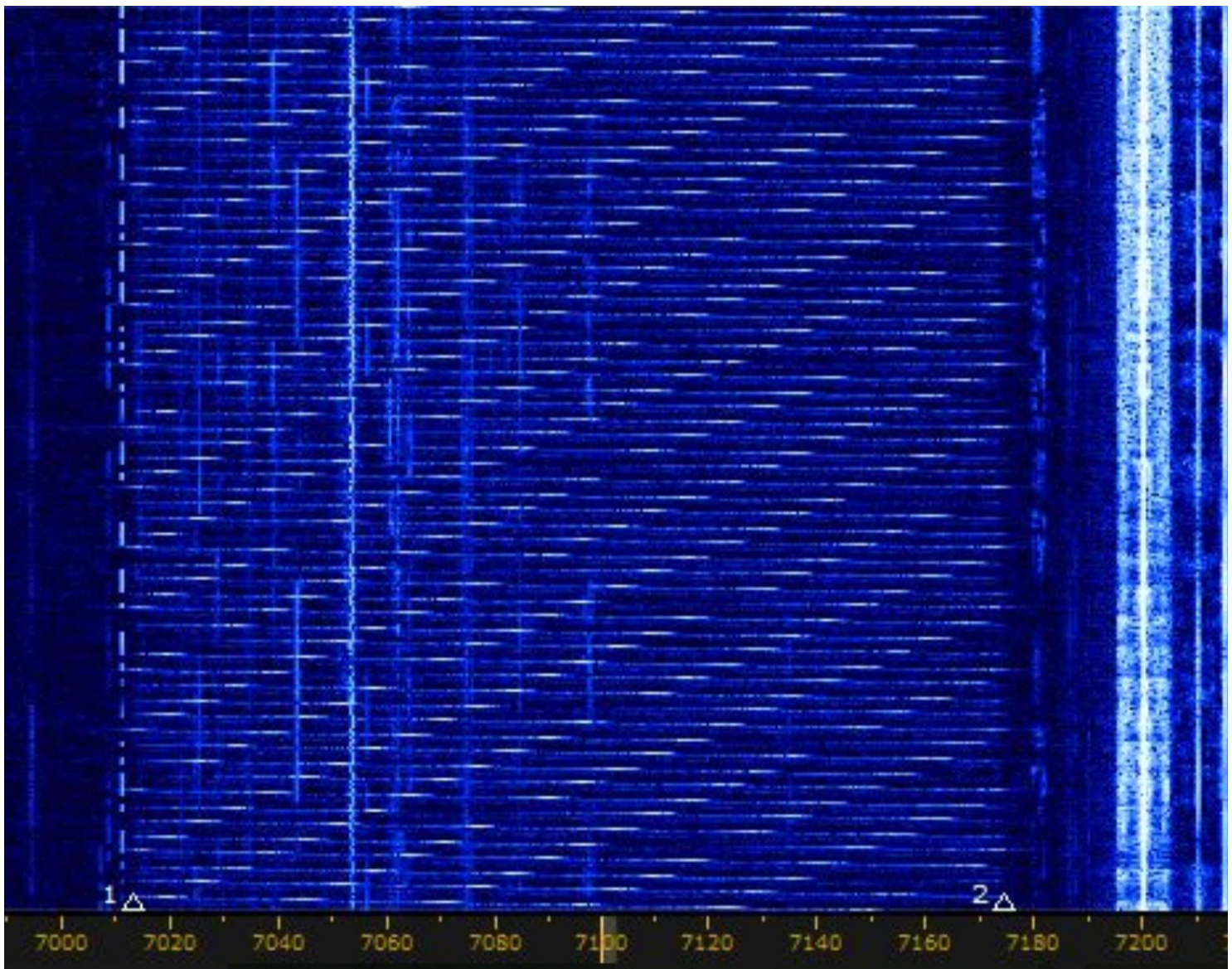
VERON; Ruud, PG1R

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14124.0	1913	20	08	RUS		RADAR	40	12K0E	CF; OTHR Contayner
14165.0	1328	14	08	RUS		RADAR	40	12K0E	CF; OTHR Contayner
21112.0	08:59	19	08	G		RADAR	50	20K0E	CF; OTHR; UK Base Cyprus

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

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7100 kHz CF: CHN wideband OTHR. BW = 160 K0E; 10 sps (TNX DK2OM)