

OCTOBER 2026

- Video feature: click on the "play" red icons in the text or in the images of the Newsletter to watch the videos

- IARU IWS Wiki: find more information, screenshots, videos and recordings of the transmission modes most used by non-amateur stations on the amateur radio bands: https://www.iaru-r1.org/spectrum/monitoring-system/iarums-wiki/

About the IARU Intruder Watch Service

The IARU Intruder Watch Service (IWS), formerly the IARU Monitoring System (IARUMS), is a worldwide volunteer service authorised by the IARU Administrative Council. Its purpose is to search for, identify and report non-amateur transmissions that cause harmful interference in the amateur bands, contrary to the ITU Radio Regulations and national rules, so that national administrations have the evidence they need to act. Observers across the region send their reports to the national coordinators and to the IWS coordinators, and these are summarised each month in this newsletter. Monitoring is teamwork, and every well-documented report helps protect the spectrum entrusted to the Amateur Service. To report an intruder or to find your national coordinator, visit https://www.iaru-r1.org/spectrum/monitoring-system/iarums-region-1-coordinators/

October 2026 Summary

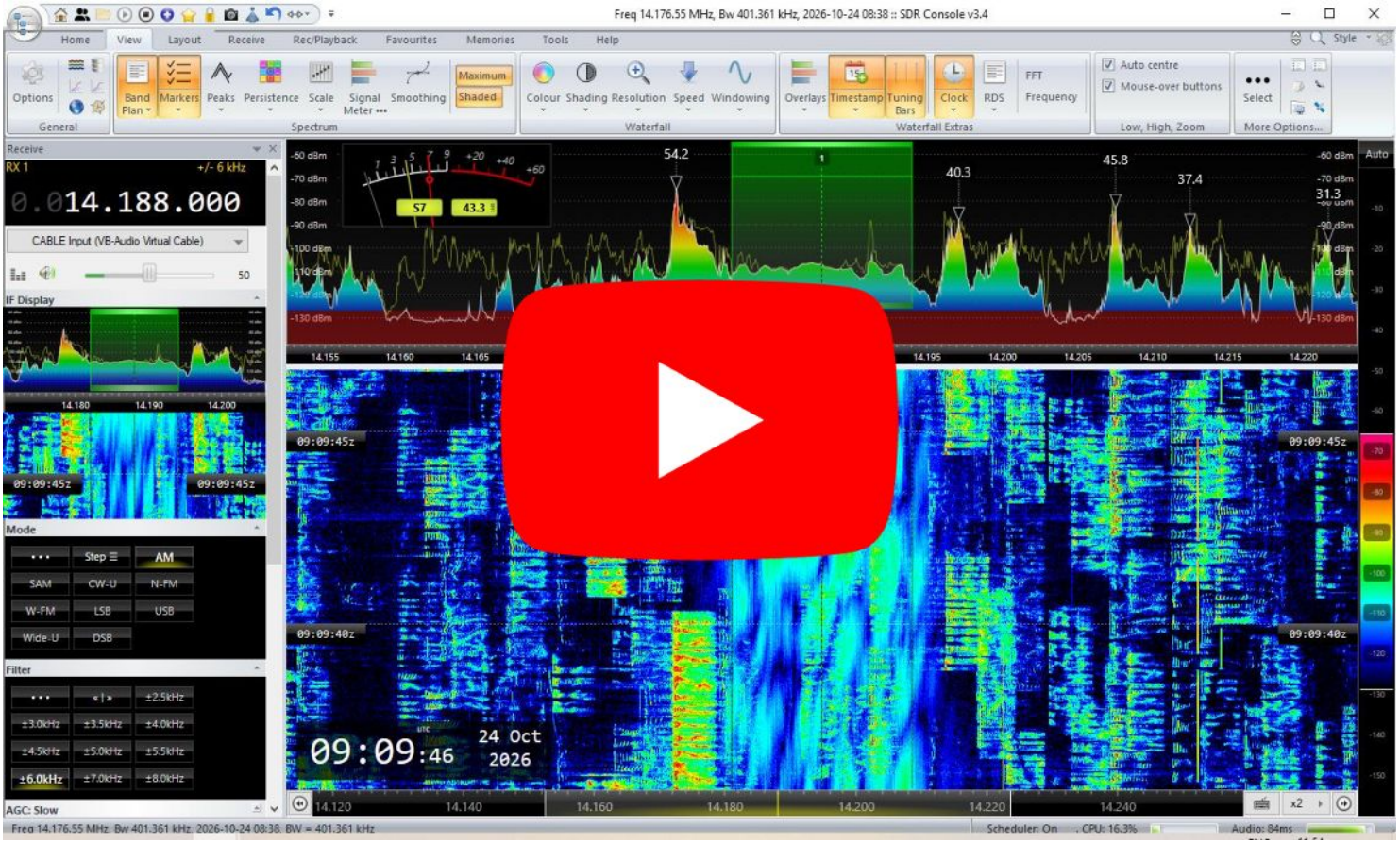
Over-the-Horizon Radars (OTHR) were once again the most frequently reported intruders in the exclusive amateur bands, accounting for the bulk of the October reports submitted by IWS monitoring volunteers. Russia and China based systems on 40, 20 and 15 metres led the list, followed by military and government FSK and CW networks, including encrypted traffic, and by non-amateur services on 10 meters. Details of each case follow below.

Over-the-Horizon Radar OTHR

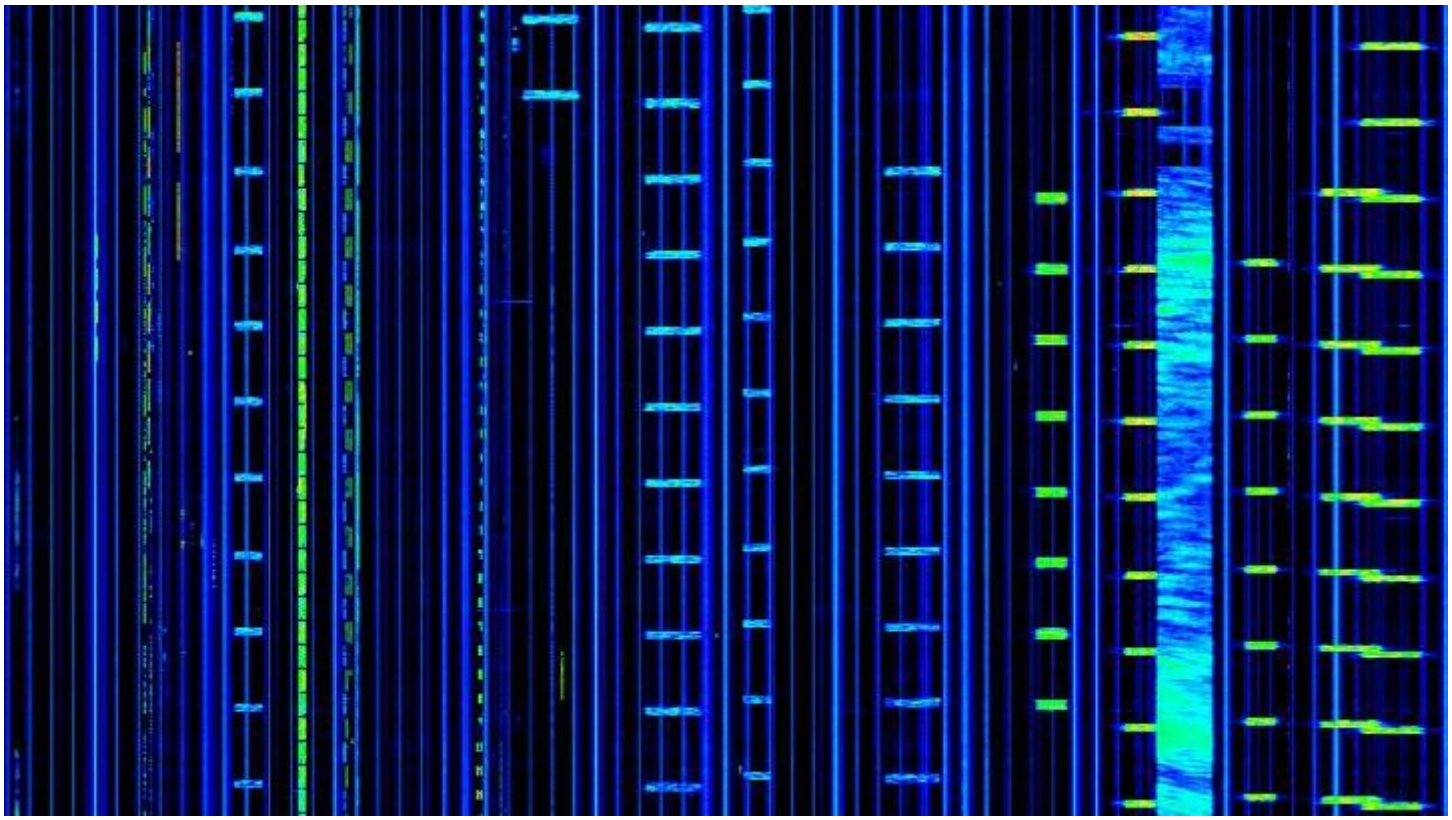
Russian "Contayner" transmissions, running at 40 sps and occupying around 12 kHz of bandwidth, headed this month's list, with persistent activity on 40, 20 and 15 metres. As an example, one such transmission was observed and recorded on 20 metres during the CQ WW SSB contest. This shows that even at the busiest times, when the band is intensively used by amateur operators, these emissions continue to cause harmful interference to stations operating in spectrum allocated to the Amateur Service.

Also recorded were the numerous transmissions of the so-called "Foghorn" OTHR systems, traced to Chinese territory. They appear every morning (UTC) on several bands, as multiple short bursts at varying pulse rates and bandwidths. The transmission rate is high enough that individual signals sometimes collide with each other.

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OTHR Contayner disturbing CQWW SSB Contest operators, on the 20m band - IARU Intruder Watch Service (IWS)



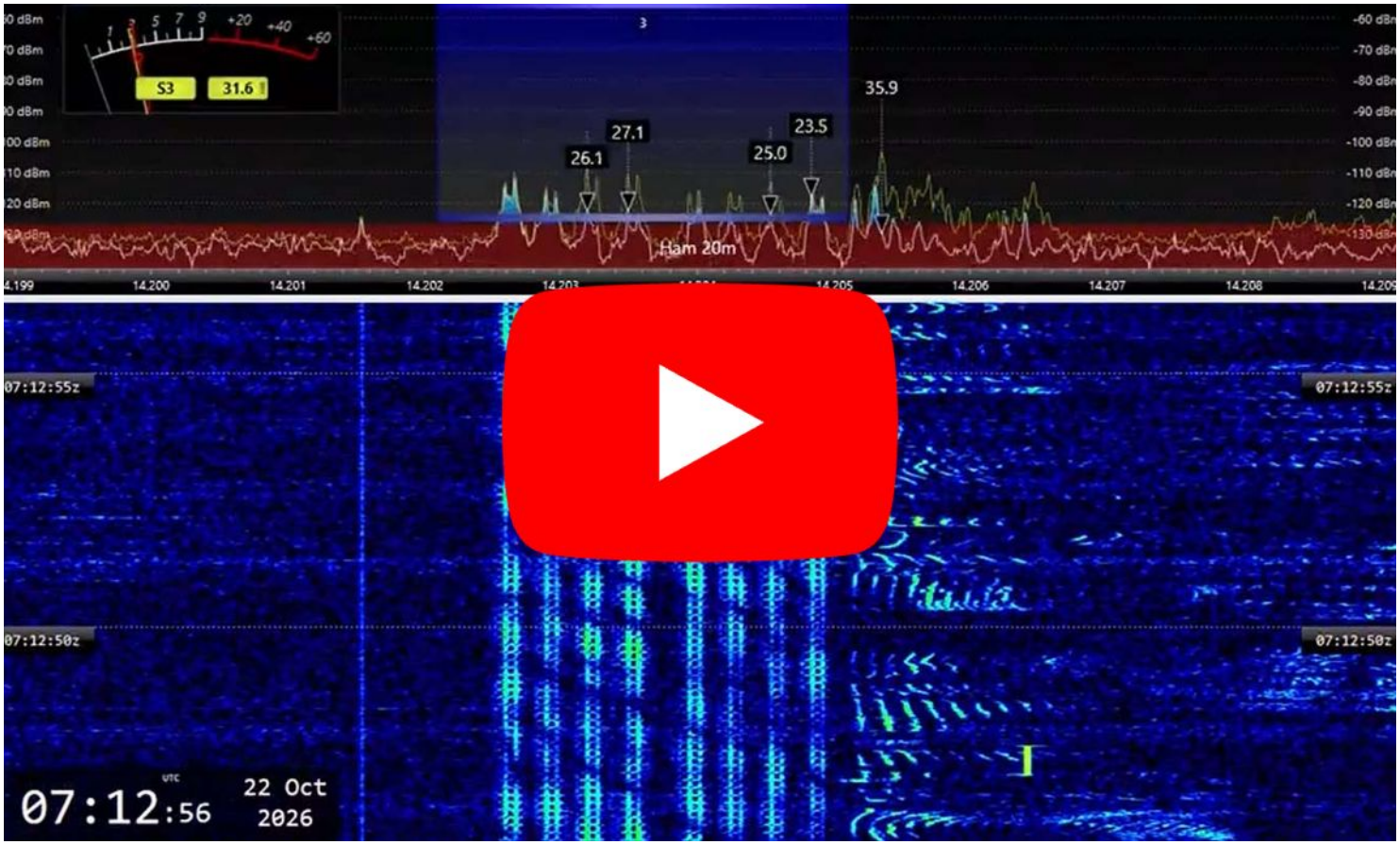
Multiple Foghorn OHTR intrusions over several hours, on 15m. IARU Intruder Watch Service (IWS)

Military and Government Networks

Russian military FSK and CW networks continue to operate in amateur exclusive segments, as they have (sadly) for many years. On the other hand, operators on 40 and 20 meters were again exposed on a daily basis to exchanges between Russian and Ukrainian unidentified stations, with long transmissions containing insults and hostile language. Beyond occupying spectrum that is not allocated to these services, such content is contrary to the spirit of the Amateur Radio Service and to the peaceful, international nature of the hobby.

We also note with growing concern the numerous Israeli military hybrid QPSK modem intrusions at the lower edge of the 20 meter band, which disturbed regular amateur CW activity for several days. Non-amateur station 4XZ, which uses CW, was monitored again, though less often than in September. It transmitted encrypted messages while identifying in the clear. Encrypted communications are incompatible with the principles of the Amateur Service and with the radio regulations of many countries.

Also monitored was the return of the China bound CHN4x4 modem, consisting of 8 channels running at 75 bd.



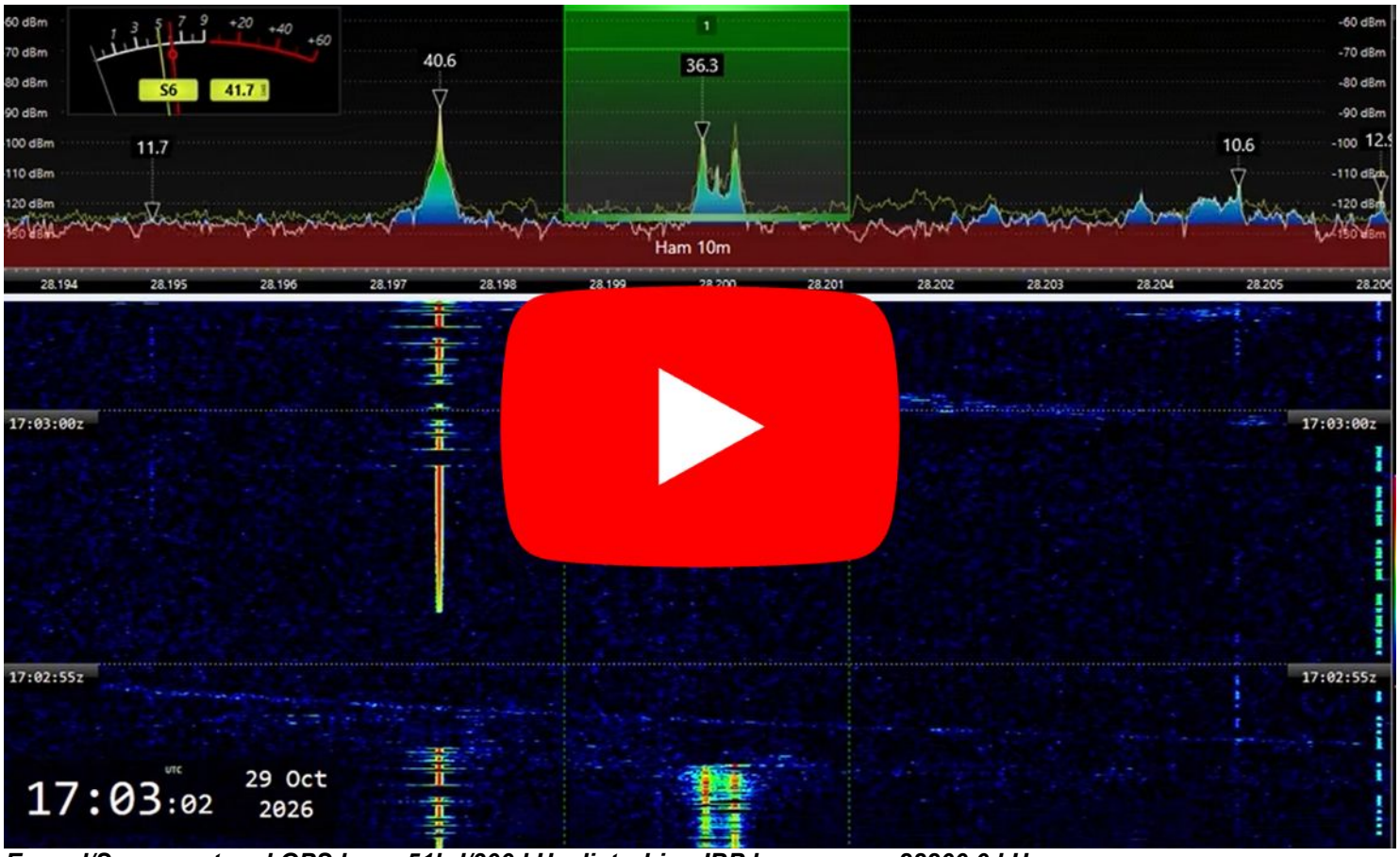
CHN 4+4, also known as PRC 4+4. Modulation = PSK-8. ITU classification of emissions code = G7D. Bandwidth = 2.4 kHz. Baud rate = 8 x 75 Bd. IARU Intruder Watch Service (IWS)

Some observers also reported what appears to be a wide band frequency-hopping spread spectrum (FHSS) signal in the CW segment of 40 meters, with its center frequency outside the amateur allocation. Monitoring is ongoing and we will report further as more information becomes available.

10 Meters

The 10 meter band remains a particular concern, when it comes to intruders. Brazilian road transport networks operate an extensive illegal system of AM and SSB communications networks, affecting amateur radio CW, digital and beacon transmissions. The band is also an occasional “playground” for OTHR systems, such as the UK operated one in Cyprus.

IWS volunteers also recorded the usual FSK GPS buoys, believed to be located in the mid-Atlantic off the coasts of Portugal and Africa. One of these transmissions occur directly on the International Beacon Project frequency of 28.200 MHz, causing harmful interference to a service that is an important tool for propagation monitoring worldwide.



Enagal/Serpe protocol GPS buoy 51bd/300 kHz disturbing IBP beacons on 28200.0 kHz

Closing note

All of the activity above takes place in spectrum allocated to the Amateur Service under the ITU Radio Regulations, and it causes **harmful interference** to licensed operators. The IARU Intruder Watch continues to document these cases and to support the member societies and national administrations in their **efforts to protect** the amateur bands. **We thank all our volunteer monitors for their dedication and valuable contributions.**

Find other videos and screenshots about the transmissions received during September at the end of this Newsletter

Detailed reports of national coordinators

Abbreviations used (as per IARU IWS definitions)

aka = also known as **| BC** = Broadcast | **Bd** = Baud | **BD** = 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 | **PRF** = Pulse Repetition Frequency | **pps** = pulses per second (same as "**sps**") | **SH** = Shift (Hz) | **sps** = sweeps per second | **TDoA** = Time difference of arrival | **ui** = **unid** = unidentified.

DARC. Harald, DL9NDW and team: DF5JL, DE2TRF

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
kHz	**UTC**	**DD**	**MM**	**ITU**	**Ident**	**Mode**	**Bd/sps**	**SH/BW**	**Details**
7008.0	07:50	08	10	RUS		J7D	120	2K60E	CIS-12
7051.5	21:19	20	10			A1A	10		Loop sending anti russian texts
7051.5	22:20	27	10			A1A			"russia is mordor" / unlis / hatespeech against putin and trump
7055.0	20:21 vt*	04 vd*	10			J3E-L		2K70E	Radiowar, Music, NON Ham Voice : UKR vs RUS . *Daily at varying times, 5 reports
7088.0	22:03 vt*	27 vd*	10	RUS		RADAR	40	12K0E	OTHR Contayner , often, *7 reports
7096.0	20:22	02	10	CHN		RADAR	66.7	10K0E	OTHR Bursts
7135.0	05:34	01	10	RUS		J7D	120	2K60E	CIS-12 idle mode
7135.0	22:08	27	10	RUS	RDL	F1B		0K2E	CIS36-50 de 'RDL'
7149.0	20:23	02	10	CHN		RADAR	66.7	10K0E	OTHR Bursts
7163.0	22:57 vt*	26 vd*	10	RUS		RADAR	40	12K0E	OTHR Contayner, 2 reports
7186.0	20:41	02	10	RUS		J7D	120	2K60E	CIS-12, idle, 5 reports
7206.0	22:16	27	10	RUS		F1B		0K2E	CIS36-50 (R2 allocated up to 7300 kHz for amateur radio service)
10115.0	18:42	01	10	G		RADAR	25	20K0E	OTHR Cyprus UK SBA (25hz mode)
14000.0	06:47 vt*	15 vd*	10	ISR		XXX	2400	CA3K0E	QSPK variant used by Isr Mil. , *4 reports
14001.0	05:39	01	10	ISR		A1A	10		V V V de 4xz 4xz

DARC. Harald, DL9NDW and team: DF5JL, DE2TRF

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14003.0	05:20	22	10	RUS		F1B	50	200H	
14008.0	06:32 vt*	15 vd*	10	RUS		F1B	50	500H	cis-36-50-50, *3 reports
14026.0	12:59 vt*	02 vd*	10	RUS		J7D	120	2K60E	CIS-12, idling, *2 reports
14088.0	05:18 vt*	22 vd*	10	RUS		RADAR	40	12K0E	OTHR Contayner, 3 reports
14097.0	12:45 vt*	10 vd*	10	CHN		RADAR	42	10K0E	OTHR Bursts, 7 reports
14119.0	05:53 vt*	01 vd*	10	RUS		F1B	50	200H	*7 reports
14122.0	13:07 vt*	04 vd*	10			J3E-L		2K70E	Radiowar, Music, NON Ham Voice : UKR vs RUS, *2 reports
14122.0	17:02	13	10	RUS		RADAR	40	12K0E	OTHR Contayner..faint and choppy
14190.0	11:12	14	10	CHN		RADAR	48	10K0E	OTHR Bursts, longer block 48hz
14267.0	10:13	08	10	RUS		J7D	120	2K60E	CIS-12
14269.0	14:31	01	10	RUS		F1B	50	200H	
14273.0	13:21 vt*	13 vd*	10	CHN		RADAR	50	10K0E	OTHR Bursts, * 3 reports
14299.0	06:41	10	10			G1D	1200	1K7E	embassy traffic
14337.0	07:59 vt*	02 vd*	10	CHN		RADAR	66.7	10K0E	OTHR Bursts, 3 Reports
21050.0	09:46	25	10	CHN		RADAR	50	10K0E	OTHR Bursts
21173.0	12:52	03	10	G		RADAR	50	20K0E	OTHR Cyprus UK SBA (50hz mode)
21201.0	14:27	17	10	RUS		RADAR	40	12K0E	OTHR Contayner
21279.0	11:30	10	10	G		RADAR	50	20K0E	OTHR Cyprus UK SBA rprt by DG9RE
21407.0	14:20	04	10	G		RADAR	25	20K0E	OTHR Cyprus UK SBA (25hz mode)
21422.0	14:26 vt*	17 vd*	10	G		RADAR	50	20K0E	OTHR Cyprus UK SBA
28599.0	15:10	17	10	G		RADAR	50	20K0E	OTHR Cyprus UK SBA

DARC. Harald, DL9NDW and team: DF5JL, DE2TRF

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
28730.0	13:09	03	10	G		RADAR	25	20K0E	OTHR Cyprus UK SBA (25hz mode)

IRTS. Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3645	305	17	10	UKR / RUS		LSB			Ukrainian-Russian radio war. Very strong signals, persistent.
5360	1910	12	10	UKR / RUS		USB			Russian military music. Medium signal. Persistent. Also heard on the 14th at 1730z, on the 28th at 2030z and on the 30th at 1715z.
7000	1545	8	10	INS		LSB			Village radio. Male voices. Medium signals.
7050	2030	29	10			RADAR			Radar from 7050 to 7075 kHz. Huge and persistent signal.
7055	1855	28	10			RADAR			Radar from 7055 to 7075 kHz. Strong and persistent signal. Still on 2 hours later.
7055	1600	6	10	UKR / RUS		LSB			Russian-Ukrainian radio war. Strong and persistent signals.
7100	1730	14	10	UKR / RUS		LSB			Rebroadcasting of a radio programme in Russian. Huge and persistent signal.
7115	1900	12	10			F1B			Strong and persistent signal.
7123	1102	24	10	IRL		LSB			DQRM to the IRTS news. Lots of carriers. Benny Hill Show theme is being played. Sounds of cats. Ends 1125z.
7136	1905	12	10			F1B			Medium but persistent signal. Also heard on the 18th at 0320z with a strong and persistent signal.
7162	1910	12	10			PSK			Link-11 Clew. Strong and persistent.
7187	2030	28	10			PSK			Strong and persistent signal. Also heard on the 29th at 2040z.
7195	1915	12	10			RADAR			Radar from 7195 to 7220 kHz. Strong and persistent signal.
10115	1555	9	10			RADAR			Radar from 10115 to 10135 kHz. Huge and persistent signal.
14110	905	3	10			PSK			Huge and persistent signal.
14120	855	8	10			F1B			Medium but persistent signal. Also heard on the 11th at 1040z, 12th at 1030z, 13th at 0825z,15th at 0830z and the 23rd at 1330z.
14122	1135	5	10	UKR / RUS		USB			Huge and persistent signal.
14191	900	3	10	RUS		F1B			Russian navy, Kaliningrad. Strong and

IRTS. Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
									persistent signal. Heard on most days every single hour of the day.
14237	1145	5	10			PSK			Strong and persistent signal. Also heard on the 14th at 1215z with a medium but persistent signal.
14266	855	8	10			PSK			Huge and persistent signal.
14330	1115	10	10	CHN		RADAR			Radar from 14350 to 14340 kHz. Medium but persistent signal. Chinese Foghorn.
21155	850	8	10			RADAR			Radar from 21155 to 21175 kHz. Medium but persistent signal.Also on the 15th at 0830z and the 17th at 1520z with a weak signal.
21190	905	17	10			RADAR			Radar from 21190 to 21205 kHz. Medium but persistent signal.
21380	905	17	10			RADAR			Radar from 21380 to 21400 kHz. Huge and persistent signal.
21438	920	3	10	UKR		CW			Russian navy, Sevastopol. Heard on most days with a weak to medium signal.
145,65	1913	6	10	IRL		FM			DQRM to the IRTS news and call in. Creation of noise. Benny Hill theme is being played. Not audible anymore as of 1925z. Also heard on the 27th between 1900 and 1940z.

PZK. Mirek, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7026.0	1830	05	10			RADAR		12K0E	S9+
7065.0	1835	28	10			RADAR		14K0E	S9+
14001.5	vt	vd	10			UI		2K5E	S6
14008.0	vt	vd	10			F1B		500	S9+
14031.0	0850	27	10	RUS		CIS		3K0E	S9
14043.5	0750	15	10	RUS		CIS		3K0E	S7
14109.0	1645	11	10			F1B		200	S9 similar to rtty, 1 sec. packets
14115.0	1715	16	10			RADAR		14K0E	S5
14119.0	vt	vd	10			F1B		200	S9+
14115.5	0925	22	19			UI		2K5E	bursts
14125.0	1645	11	10			USB		3K0	S9 "radio" in Russian
14140.0	1315	06	10			RADAR		10K0E	S9

PZK. Mirek, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14156.0	1318	06	10			RADAR		12K0E	S9+
14160.0	1210	02	10			RADAR		10K0E	5 sec. bursts
14190.0	1140	14	10			RADAR		10K0E	
14202.0	0940	05	10			RADAR		10K0E	5 sec. bursts
14221.0	1045	28	10			F1B		200	S9+
14251.0	1130	13	10			RADAR		10K0E	3 sec. bursts
14268.0	0915	08	10			RADAR		10K0E	S7
14268.0	1130	13	10	RUS		CIS12		3K0E	S9
14298.0	1640	11	10			RADAR		10K0E	3 sec. bursts
14301.0	1015	21	10			RADAR		10K0E	3 sec. bursts
14308.0	1330	11	10			RADAR		10K0E	3 sec. bursts
14314.0	0915	27	10			RADAR		10K0E	3 sec. bursts
14325.0	1225	09	10			RADAR		10K0E	3 sec. bursts
14325.0	1130	14	10			RADAR		10K0E	3 sec. bursts
14337.0	1135	13	10			RADAR		10K0E	5 sec. bursts
14345.0	1000	18	10			RADAR		10K0E	3 sec. bursts
14346.0	0915	09	10			RADAR		12K0E	S9+
18072.0	1320	26	10			RADAR		10K0E	5 sec. bursts
18080.0	vt	vd	10			A3E		6K0E	Radio in Chinese or similar language
18100.0	1020	18	10			RADAR		20K0E	10 sec. bursts
18128.0	1000	05	10			RADAR		10K0E	3 sec. bursts
18128.0	0930	19	10			RADAR		20K0E	short bursts
18130.0	1025	12	10			RADAR		10K0E	3 sec. bursts
18152.0	0930	19	10			RADAR		20K0E	
18157.0	1020	18	10			RADAR		10K0E	3 sec. bursts
18174.0	0820	12	10			RADAR		20K0E	partially in the amateur band, strong
21061.5	0925	22	19			UI		3K	bursts
21115.0	1345	16	10			RADAR		20K0E	S9+
21130.0	1320	10	10			RADAR		10K0E	S7
21132.0	0920	27	10			RADAR		20K0E	bursts 20 and 10kHz wide

PZK. Mirek, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21151.0	0900	22	10			RADAR		20K0E	Strong
21164.0	0820	08	10			RADAR		10K0E	S6
21170.0	1030	15	10			RADAR		10K0E	S5
21172.0	0840	15	10			RADAR		12K0E	strong
21218.0	0930	16	10			RADAR		10K0E	8 sec. bursts
21313.0	0925	01	10			RADAR		10K0E	3 sec. bursts also 21357.0
21316.0	1050	22	10			RADAR		20K0E	Strong
21334.1	0920	13	10			RADAR		10K0E	3 sec. bursts
21406.0	0920	13	10			RADAR		20K0E	4 sec. bursts
24905.0	0920	27	10			RADAR		14K0E	S6
24974.0	1015	09	10			RADAR		10K0E	3 sec. bursts
28012.0	1025	12	10			RADAR		40K0E	S6
28140.0	1130	13	10			RADAR		40K0E	S6
28242.0	0910	08	10			RADAR		20K0E	S5
28498.0	1015	23	10			RADAR		20K0E	S6
28812.0	1405	14	10			RADAR		20K0E	S9+

REP. Paulo, CT2IWW

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7000.0	08:31	01	10			J3E-U			unid language USB voice comms
7002.1	19:28	06	10			XXX			continuous beeping
7003.0	07:58	09	10			N0N			long lasting carrier, qsb
7020.0	04:32	21	10	RUS		J7D	120	2K70E	CIS12
7055.0	18:46	23	10			J3E-U			UKR/RUS war of words, insults
7059.0	04:25	21	10	RUS		RADAR	40	12K0E	OTHR Contayner
7088.0	18:56	28	10			G7D	2400	2K40E	Link11 USB
7091.0	18:48	23	10	RUS		RADAR	40	12K0E	OTHR Contayner
7114.0	21:04	14	10	RUS		F1B	50	250H	

REP. Paulo, CT2IWW

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7135.0	21:08	14	10	RUS		F1B	50	200H	
7145.0	02:13	21	10	RUS		RADAR	40	12K0E	OTHR Contayner
7159.0	02:10	21	10			G7D	2400	2K40E	LINK11 CLEW Single channel, USB
7184.0	19:59	28	10	RUS		J7D	120	2K70E	CIS 12 with additional pilot tone
14000.0	07:58	14	10			ALE 3G	2400	CA3K0E	14000.0 kHz USB. Mil ALE 3G bursts
14000.0	vt	vd	10	ISR		OTHER	2400	2K40E	14000 kHz USB. ISR Navy hybrid QPSK modem
14008.0	07:49	14	10	RUS		F1B	50	500	CIS 36-50 500Hz BW
14042.0	09:22	15	10	RUS		J7D	120	2K70E	CIS12
14119.0	08:04	02	10	RUS		F1B	50	200H	
14119.0	07:34	12	10	RUS		F1B	50	200H	
14126.0	08:35	12	10	RUS		J7D	120	2K70E	CIS12
14148.5	07:35	12	10			F1D	600	600H	
14183.0	10:29	12	10	CHN		RADAR	50	10K0E	OTHR Foghorn bursts
14188.0	09:07	24	10	RUS		RADAR	40	12K0E	OTHR Contayner disturbing contest
14189.0	08:10	12	10	RUS		J7D	120	2K70E	CIS12 w/ distortion
14193.0	07:39	05	10	RUS		RADAR	40	12K0E	OTHR Contayner
14202.0	07:23	22	10	CHN		G7D	75	2K40E	14202 kHz USB. CHN 4+4 a.k.a PRC 4+4
14217.0	10:28	12	10	CHN		RADAR	66.7	10K0E	OTHR Foghorn bursts
14221.0	09:45	28	10			F1B	75	200H	
14227.0	10:45	12	10	CHN		RADAR	66.7	20K0E	OTHR Foghorn bursts, 20kHz BW
14235.0	07:51	23	10	CHN		RADAR	83	20K0E	OTHR Foghorn bursts, 83sps
14248.0	10:43	12	10	CHN		RADAR	66.7	20K0E	OTHR Foghorn bursts, 20 kHz BW
14258.0	10:08	23	10	CHN		RADAR	50	10K0E	OTHER Foghorn bursts
14313.0	09:40	05	10	CHN		RADAR	66.7	10K0E	OTHR Foghorn bursts
14337.0	07:49	02	10	CHN		RADAR	66.7	10K0E	OTHR Foghorn bursts

REP. Paulo, CT2IWW

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14338.0	10:25	28	10	CHN		RADAR	83	10K0E	OTHR Foghorn bursts, rare 83sps mode
14340.0	09:40	05	10	CHN		RADAR	50	10K0E	OTHR Foghorn bursts
14353.0	09:56	28	10	CHN		RADAR	50	10K0E	14350.0 kHz CF OTHR Foghorn bursts, partially inside 20m amateur band
21178.0	12:37	19	10	G		RADAR	50	20K0E	UK SBA Cyprus
21190.0	09:42	13	10	CHN		RADAR	50	20K0E	OTHR Foghorn bursts 20kHz BW
21234.0	08:50	13	10	CHN		RADAR	50	20K0E	OTHR Foghorn 50sps 20khz BW
21267.0	07:53	13	10	G		RADAR	50	20K0ER	UK SBA OTHR Cyprus
21302.0	09:22	26	10	CHN		RADAR	66.7	20K0E	OTHR Foghorn bursts 20 kHz BW
21316.0	08:22	13	10			RADAR	47.7	10K0E	OTHR Foghorn 47.7 sps
21342.0	09:45	13	10			RADAR	47.7	10K0E	OTHR Contayner bursrts 47.7 sps
21366.0	13:13	13	10	CHN		RADAR	50	20K0E	Also second 10 kHz BW tx
21379.0	08:39	13	10	CHN		RADAR	50	10K0E	OTHR Foghorn bursts
21385.0	08:57	26	10	CHN		RADAR	66.7	10K0E	OTHR Foghorn bursts
21405.0	08:40	13	10	CHN		RADAR	50	20K0E	OTHR Foghorn bursts
21410.0	08:57	26	10	CHN		RADAR	66.7	20K0E	OTHR Foghorn bursts 20kHz BW
28030.0	15:25	29	10			F1B	51	300H	Enagal/Serpe GPS buoy
28045.0	14:25	29	10	B		J3E-U			Brazilian outbanders, USB
28050.0	14:44	29	10			F1B	51	300H	Enagal/Serpe GPS buoy
28060.0	14:25	29	10			F1B	51	300H	Enagal/Serpe GPS buoy
28065.0	17:43	13	10	B		A3E			Brazilian truckers, daily
28082.0	15:33	29	10			F1B	51	300H	Enagal/Serpe GPS buoy
28100.0	16:46	12	10	B		J3E-U			Brazilian outbanders, USB
28115.0	12:10	16	10			F1B	51	300H	Enagal/Serpe GPS buoy
28155.0	17:45	13	10	B		A3E			Brazilian truckers
28200.0	15:31	29	10			F1B	51	300H	Enagal/Serpe GPS buoy

SRAL. Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7 MHz	1500-0600	*	10	RUS		RADAR	40 sps	13k0E	*) Days: . 4. 6. 11. 12. 16.- 19. 22. 23. 26. - 31. (WebSDR 26d)
7008.5	0745-0815	01 08	10	RUS		J7D	120	2k60E	
7016.0	0930-1800	*	10	RUS		F1B/ N0N		250	*) Days: 1. 2.14. 18.
7018.0	0715-1100	15 24	10	RUS		J7D	120	2k60E	
7020.0	1500-1515/	27	10	RUS		J7D	120	6k60	dsb
7029.0	0730-0800	*	10	RUS		XXX		2k60E	*) Days: 3. 5. 9. 10. 13. 15.
7035.1	0500-1815	01-07	10	RUS		R3E-l		3k60E	1 sec. tick, 240 Hz tone and hum (not heard after 7th)
7044.0	1145-1405	*	10	RUS		F1B		250H	*) Days: 9. 11. 14. 15. 19. 26.
7052.0	1700-1800	22 26	10	RUS		F1B		250H	
7080.0	1745-1810	*	10	RUS	RDL	F1B/A		200H	*) Days: 1. 10. 13. 15. 17. 18. 19. 5F
7088.0	1155-1730	*	10	IW		G7D		2k40E	*) Days: 19. 24. 28.
7114.0	0500-1625/	*	10	RUS		F1B		250H	*) Days: 13. 17. - 20.
7115.0	0710-0730/	29 31	10	RUS	754	R3A-u	20wpm	1k5E	1200H tone, 5F groups twice
7135.0	1655-1830	01-31	10	RUS	RDL	F1B/A		200H	5F
7159.0	0445-1700	*	10	IW		G7D		2k40E	*) Days: 1. 2. 3. 12. 13. 17. 19. - 23. LINK11 usb
7186.0	0000-2400	*	10	RUS		J7D	120	3k30E	*) Days: 2. 3. 4. 14. 26. 28. 29. 30. carr. 7184 kHz
10 MHz	1800-1530	12 21	10	G		RADAR	50 sps	20k0	(WebSDR 13d)
10 MHz	1300-0300	*	10	RUS		RADAR	40sps	13k0E	*) Days: 8. 9. 18. 20. 26. 28. (WebSDR 12d)
14 MHz	0400-1830	*	10	RUS		RADAR	40sps	13k0E	*) Days: 4. 6. 12. 14. 15. 16. 22. 24. 26. 27. 29. (WebSDR 17d)
14 MHz	0745-1420	*	10	CHN		RADAR	50/67/ 83.3 sps	10k0/ 20k0	*) Days: 1. 3. 6. 7. 9. 11. 13. - 16. 18. 21. 22. 26. 27. 29. 30. 'foghorn'
14000A	0700-1230	*	10		SuperDARN	RADAR		6k0E	*) Days: 1. 2. 17. 20. up to 14025 in 5 kHz raster. Fq jump every 1 min
14000.0	0500-1800	13 - 22	10	ISR		QPSK		2k80E	•tone preamble
14001.0	0820-0900	*	10	RUS		J7D	120	2k60E	*) Days: 2. 21. 23. 26. 28.

SRAL. Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14002.0	1500-1800	20 27	10	GU M		F1B		850H	
14008.0	0445-1300	01 - 26	10	RUS		F1B		500H	
14024.0	1035-1145	29	10	RUS		F1B		500H	
14119.0	0500-1700	01 - 31	10	RUS	RDL	F1B/A		200	5F
14192.0	0500-1500	*	10	RUS		F1B		200H	*) Days: 5. 9. 15. 17. 26. 27. 28. 30.
14221.0	0445-0600/	01 - 31	10	KAZ		F1B		250H	
18 MHz	0500-1100	*	10	G		RADAR	25/50 sps	20k0	*) Days: 2. 12. 19. 23. 30. (WebSDR 9d)
18 MHz	0645-1045	*	10	RUS		RADAR	40 sps	13k0E	*) Days: 5. 6. 24. 28. 30. (WebSDR 2d)
18080.0	0650-0800	*	10	TWN	S.o.Hope	A3E		9k0	*) Days: 4. 17. 19. 20. 21.
21 MHz	0500-1515	*	10	G		RADAR	25/50 sps	20k0	*) Days: 1. 3. 8. 13. 15. 19. - 21. 24. - 27. 29. - 31. (WebSDR 28d)
21 MHz	0500-1630	*	10	RUS		RADAR	40 sps	13k0E	*) Days: 5. 9. 10. 15. 26. 28. (WebSDR 12d)
21 MHz	0500-1000	*	10	CHN		RADAR	50/67/ 83.3 sps	10k0/ 20k0	*) Days: 1. - 4. 7. 8. 9. 11. 13. - 15. 17. 18. 19. 21. 22. 23. 26. - 30. 'foghorn'
21295.0	1130-1200	11	10	TWN	S.o.Hope	A3E		9k0	
21438.0	/ 0830-1430	01 - 31	10	RUS	RCV	A1A	18 - 24 wpm	40H	
24 MHz	1300-1345	31	10	G		RADAR	25/50sps	20k0	(WebSDR 1d)
24 MHz	0700-1400	*	10	RUS		RADAR	40sps	13k0E	*) Days: 9. 27. 28. (WebSDR 3d)
28 MHz	0645-1515	*	10	G		RADAR	25/50sps	20k0	*) Days: 1. 13. 16. 19. - 25. (WebSDR 13d)

VERON: Ruud PG1R, Credits to observers Dick PA0GRU, Johan PA25027

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7004.0	1630	31	10	RUS		RADAR		12K0E	OTHR
7055.0	vt	vd	10	UKR		J3E-L		3K0E	Music & comments; slavic language; also slogans in loop, some times with "Slava Ukrain"; almost daily
7060.0	1743	05	10	UKR		J3E-L		2K80E	Songs; S9+

VERON: Ruud PG1R, Credits to observers Dick PA0GRU, Johan PA25027

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7065.0	1811	26	10	UKR		J3E-L		3K0E	Comments; male voice; Slavic lang.
7065.0	1841	28	10	RUS		RADAR	20	12K0E	CF; OTHR Kontayner; 20 sps! few minutes later again 40sps
7095.0	2118	05	10			J3E-L			Music & lyrics Slavic language
7114.0	1748	12	10	RUS		F1B		250H	Ptr
7122.0	1736	07	10			XXX	10	8K0E	CF; Unknown sig; burst abt. 10 sec
7135.0	vt	vd	10	RUS		F1B		200H	Ptr; many days/times; sometimes sync. with '7137.0'
7137.0	vt	vd	10	RUS		F1B		200H	Ptr; many days/times; sometimes sync. with '7135.0'
7165.0	1808	26	10	RUS		RADAR		12K0E	CF; OTHR Kontayner
7186.0	1846	28	10	RUS		J7D		3K10E	CF; CIS-12/PSK; pilot tone on 7184kHz
7186.0	1534	29	10	RUS		J7D		3K10E	CF; CIS-12/PSK; pilot tone on 7184kHz
7190.0	1840	27	10			XXX	10	8K0E	CF; Unknown sig; burst abt 10 sec
7195.5	1406	20	10			XXX		1K30E	CF; unknown dig sig; STANAG4529??
7202.0	1740	12	10	RUS		RADAR	40	12K0E	CF; OTHR Kontayner; disturbing part of 40m band
10124.0	1410	08	10	RUS		RADAR	40	12K0E	CF; OTHR Kontayner
10152.0	1838	28	10	RUS		RADAR	40	12K0E	CF; OTHR Kontayner; partly in 30m band
14138.0	1242	21	10	CHN		RADAR	25	10K0E	CF; short 2 sec bursts
14118.0	vt	vd	10	RUS		F1B		200H	UiPtr; many days/times
14119.0	1733	12	10			XXX	10	8K0E	CF; Unknown sig; burst abt 10 sec
14119.0	vt	vd	10	RUS		F1B		200H	Ptr; many days/times
14119.0	1030	27	10	RUS		A1A		200H	5f groups
14161.0	1530	29	10			XXX	10	8K0E	CF;Unknown sig; burst abt 10 sec
14190.0	1448	21	10	CHN		RADAR	42	10K0E	CF; short 2 sec bursts
14192.0	1320	01	10	RUS		F1B		200H	UiPtr
14192.0	1253	23	10	RUS		F1B		200H	Ptr
14238.0	1237	21	10	CHN		RADAR	42	10K0E	CF; short 2 sec bursts
14309.0	1446	21	10	CHN		RADAR	42	10K0E	CF; short 2 sec bursts
18085.0	1407	08	10			XXX	10	8K0E	CF;Unknown sig; burst abt 10 sec

VERON: Ruud PG1R, Credits to observers Dick PA0GRU, Johan PA25027

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
18107.0	1421	20	10			F1B		200H	Ptr
18107.0	1232	21	10			F1B		200H	Ptr
20997.0	1428	22	10	G		RADAR	50	20K0E	CF; British AB Cyprus; disturbing part of 15m band
21137.0	0936	24	10	G		RADAR		20K0E	OTHR
21164.0	1359	08	10	RUS		RADAR	40	12K0E	CF; OTHR Kontayner
21385.0	1402	08	10			XXX	10	8K0E	CF;Unknown sig; burst abt 10 sec

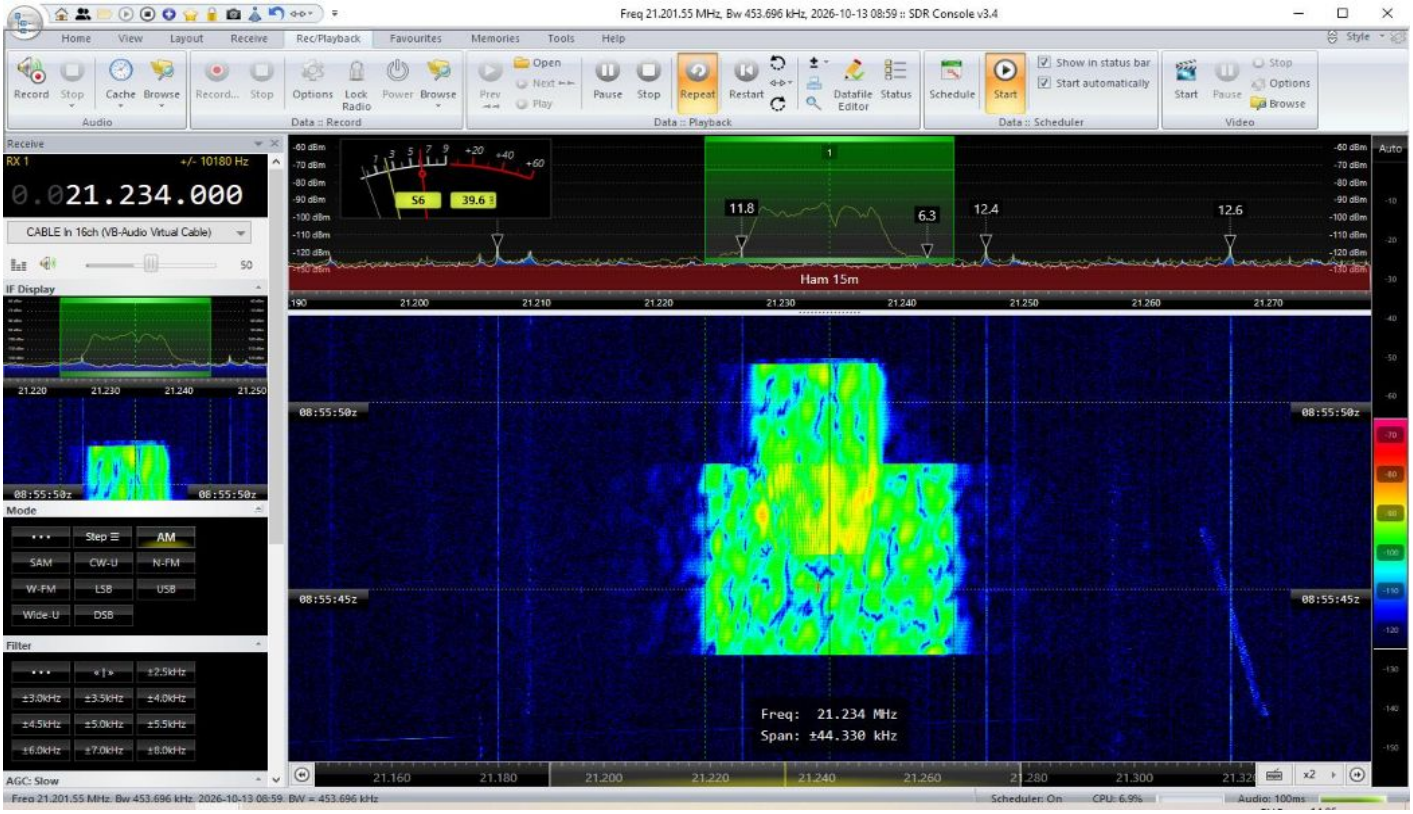
Contact: Paulo Teixeira CT2IWW / Harald Geier DL9NDW IARU IWS coordinators: iws@iaru-r1.org

IARU IWS 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/



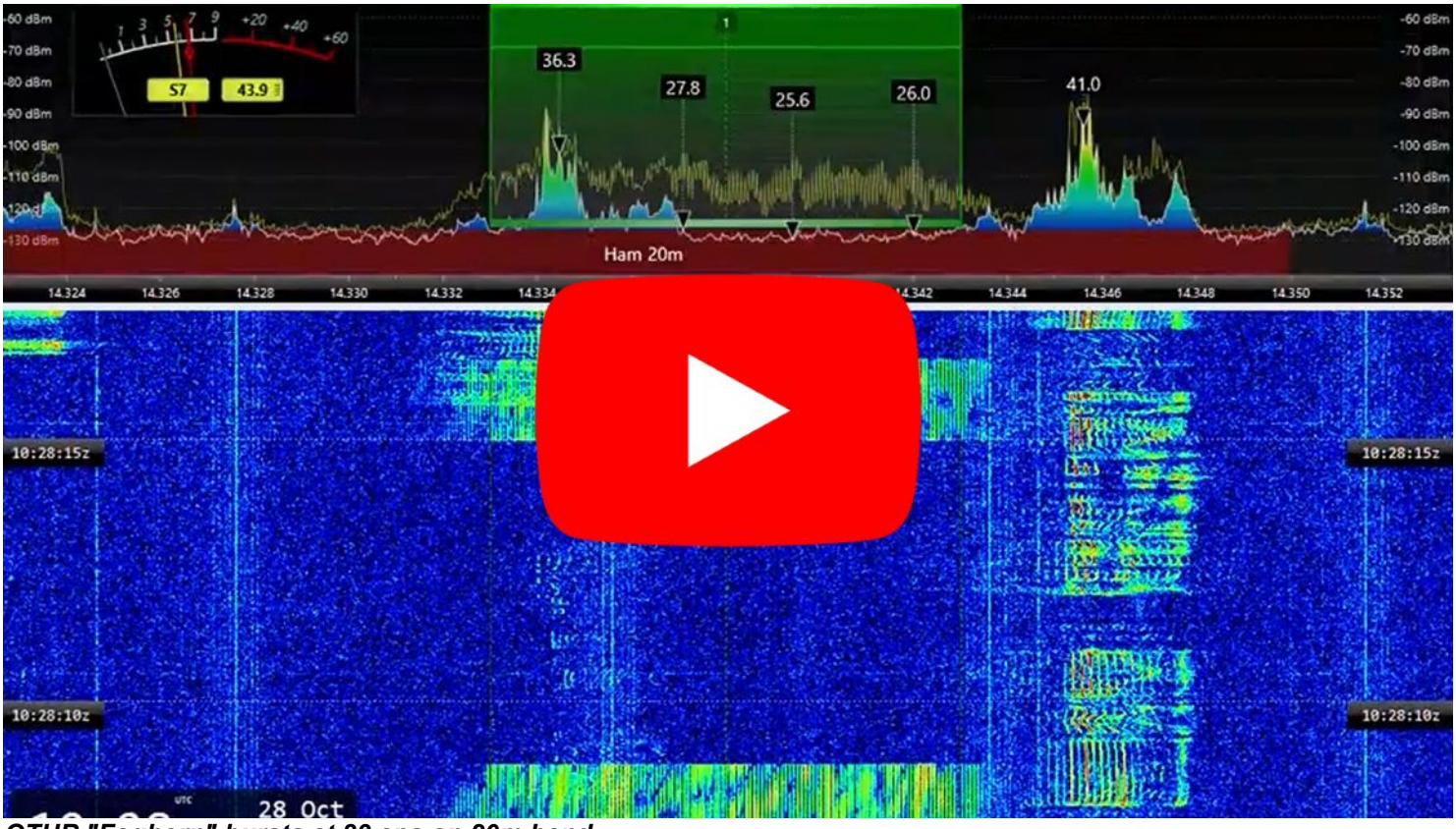
UK SBA Over the Horizon Radar from Cyprus on 15m. IARU Intruder Watch Service (IWS).



Chinese Foghorn OTHR radars stepping over themselves on 15m @ 10 and 20 kHz BW



CIS12 on 7200.0 kHz partially inside the 40m R1 allocation



OTHR "Foghorn" bursts at 83 sps on 20m band