



Intruder Watch Service

Monthly Newsletter

SEPTEMBER 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/>

News and Info

The IARU Administrative Council formally announced a leadership transition for the IARU Intruder Watch Service (IARU IWS), following its September 2026 meeting in Vienna.

Paulo Teixeira (CT2IWW) and Harald Geier (DL9NDW) have officially assumed the roles of IARU IWS Global Co-Coordinators. Operating at the same level, they succeed Gaspar Miró (EA6AMM), who has stepped down due to personal circumstances and an upcoming international relocation.

To ensure a seamless transition and continuity for the working group, all three have been working closely together since June 2026.

Thank You, Gaspar Miró!

We extend our deepest gratitude to Gaspar Miró for his unwavering dedication, leadership, and outstanding contributions to the amateur radio community.

Gaspar’s efforts have been vital in combating non-amateur station transmissions on HF frequencies, safeguarding the spectrum for operators worldwide. While he is stepping down from the helm, Gaspar has graciously offered to remain available to the new coordinators to provide procedural and technical assistance.

The community wishes Gaspar the absolute best in his relocation and all his future personal and professional endeavors.

Thank you, Gaspar, for your selfless dedication!

Harald Geier DL9NDW

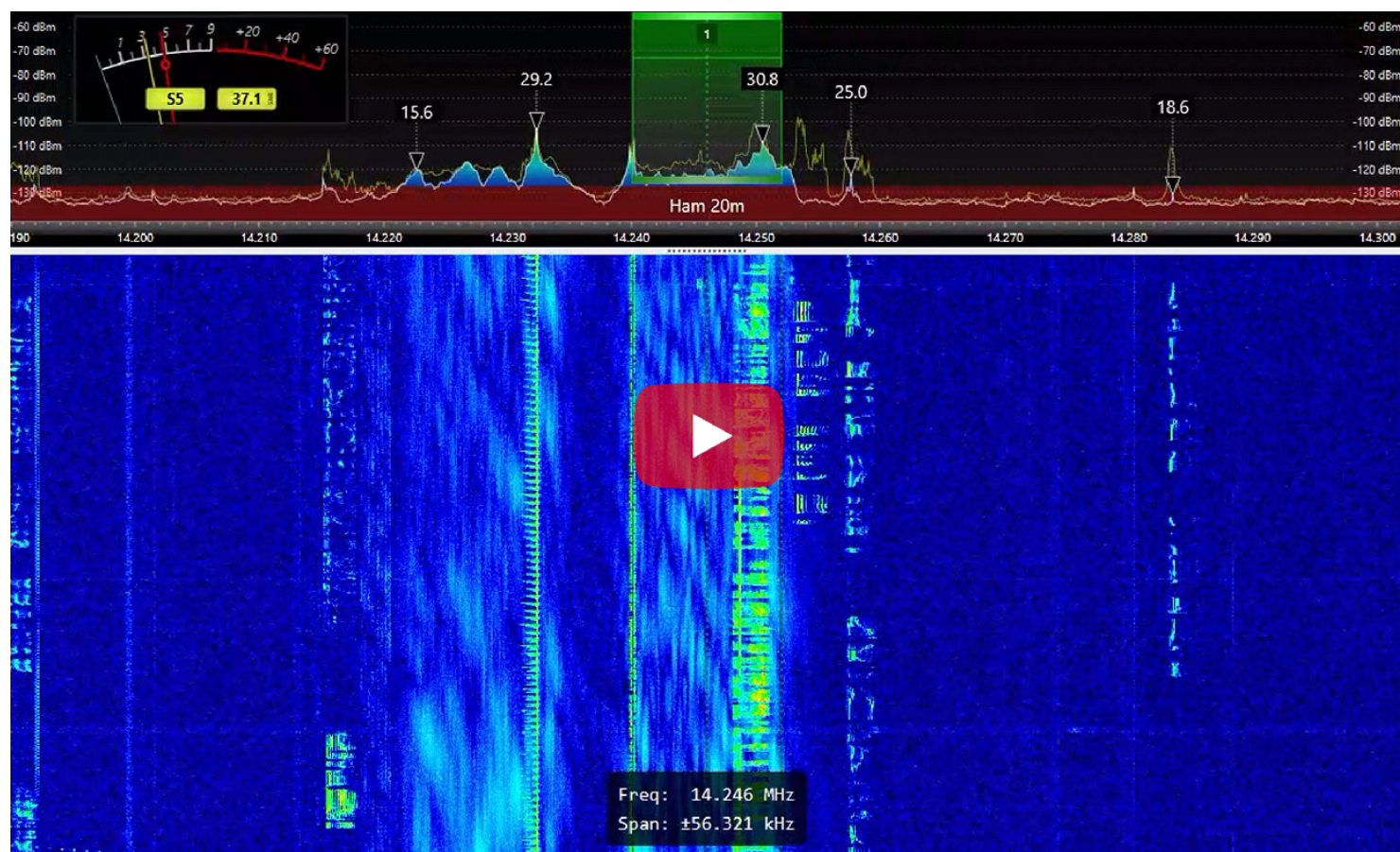
Paulo Teixeira CT2IWW

September 2026 Intruder Watch Service (IWS) monitoring report

The IARU Intruder Watch Service (IWS) presents the global monitoring summary for September 2026. This month was characterized by persistent wideband interference, the return of several well-known non-amateur transmitters and ongoing regional unwelcome activities across multiple exclusive amateur bands.

Over-the-Horizon Radars (OTHR)

Over-the-Horizon Radars (OTHR) once again formed the vast bulk of all intruder reports received this month. Because these systems utilize sweeping wideband signals—spanning anywhere from 10 to 160 kHz—they continue to be the source of highest concern for our monitoring network and the global amateur community. Their large footprints effectively wipe out substantial segments of amateur radio's HF allocations during operational windows.



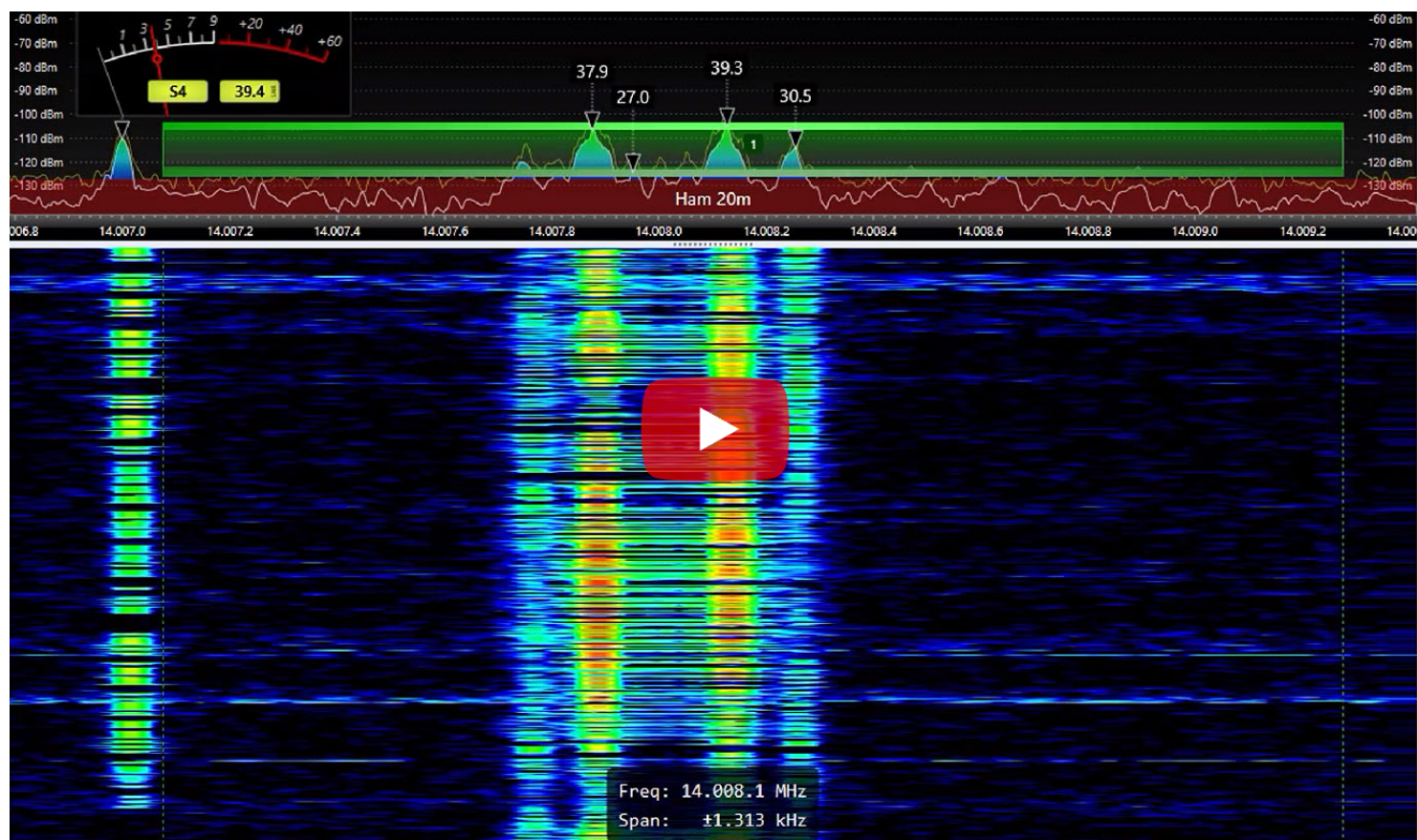
Double Contayner OTHR transmission disturbing 20m amateur SSB and SSTV activity

Russian Military FSK Systems

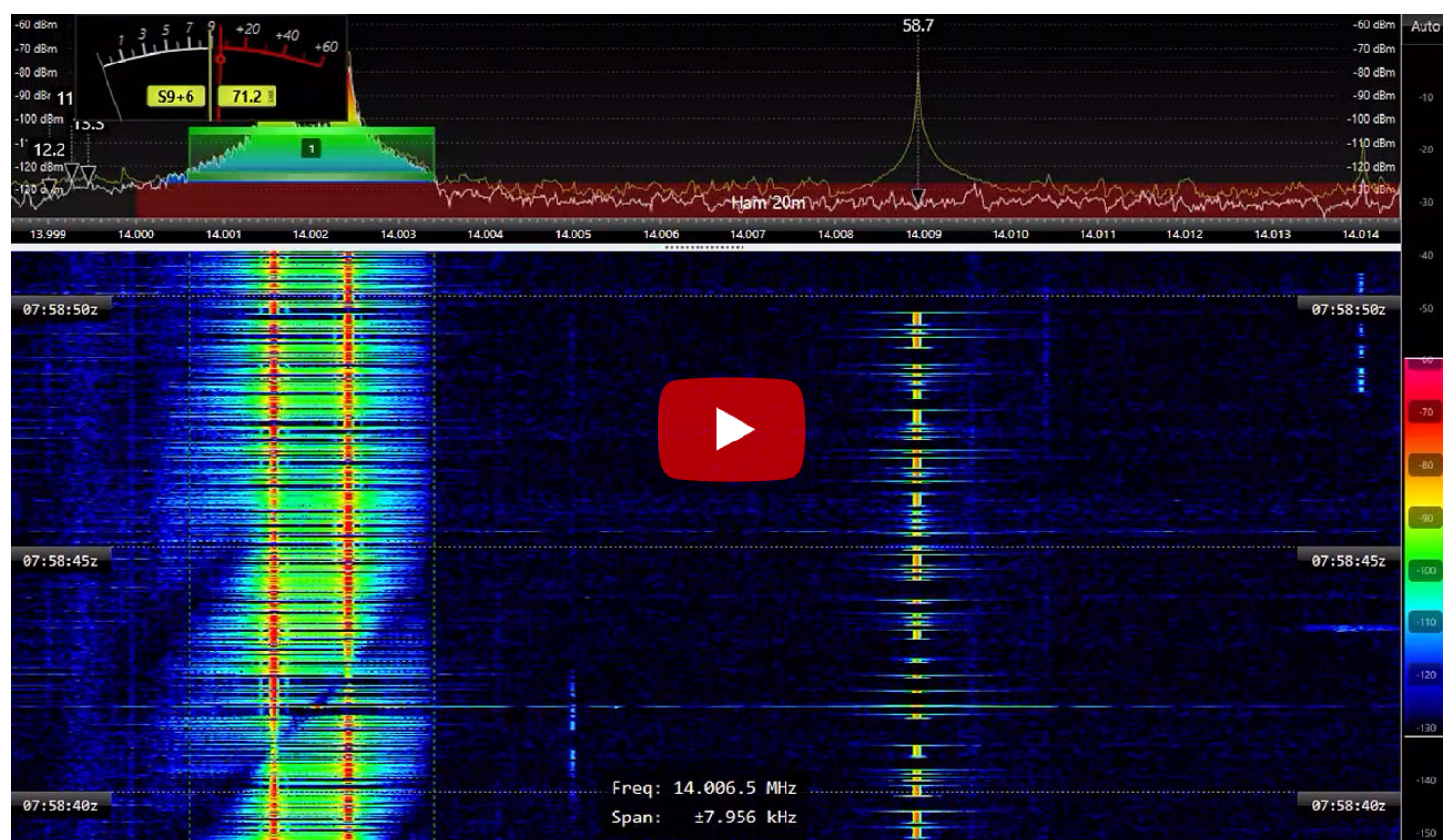
The monitoring team also observed a constant, daily presence of familiar and well known Russian military FSK systems occupying across several amateur radio bands. These transmissions appeared daily, utilizing a variety of bandwidths and shifting digital modes, causing severe local interference to routine amateur traffic.

The Return of "Old Friends" from Guam and Israel

September marked the unwelcome return of two notorious utility stations operating directly inside our exclusive allocations. A naval STANAG 4481 (FSK) transmission traced to the island of Guam was active for several days, transmitting right at the lower segment of the 20-meter band. On the other hand, the naval station 4ZX, from Haifa – Israel, also transmitted CW messages for several days.



Unusual double bandwidth CIS 36-50 FSK transmission 14008.0 kHz CF, 50bd at both 250 and 500hz



STANAG 4481 using KW-46 encryption 75bd / 850kHz BW at 14002.0 kHz CF

The UKR/RUS "War of Words" & North African Fisheries

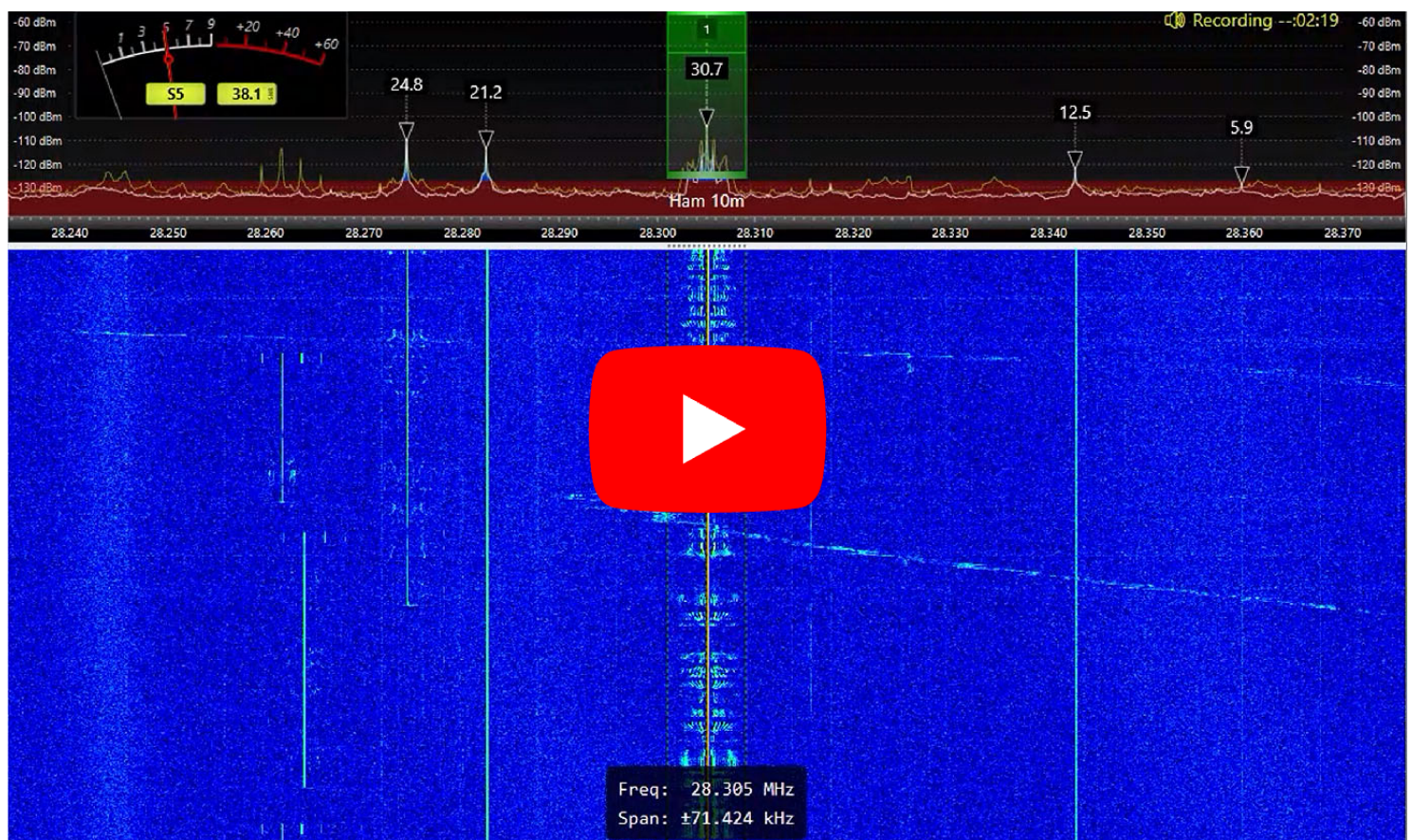
Russian/Ukrainian Conflict: The daily "war of words" between unidentified operators from Russia and Ukraine showed no signs of slowing down. Stations on both 40m and 20m engaged in persistent mutual interference, utilizing long SSB transmissions to broadcast insults, political speeches and loops of prerecorded audio of political and religious programs from elsewhere in the spectrum.

Maritime Traffic: At various points throughout the month, our monitoring stations intercepted several active SSB voice networks operated by fisheries located primarily around the coast of North Africa, according to language analysis and the nature of exchanges, often including coordinates at sea.

Regional Propagation Highlights: Brazil on 10 Meters

A short window of improved propagation conditions on the higher bands allowed monitors to assess the unfortunate state of the 10-meter band in various points of the world. On peak days, the band was heavily congested with illicit, non-amateur commercial traffic, namely long haul cargo transport and trucking activities in Brazil, operating in AM mode.

Monitoring this band also revealed the presence of OTHR radar and taxi dispatching activities in FM from Eastern Europe. The 28MHz band is also home to unwelcome sea based GPS Buoys, namely Enagal and Wavecom models. Also present are international fisheries operating somewhere in the South Atlantic, with FM mode transmissions.



Illicit Brazilian trucking related transmissions occur daily on the 10m band

Mystery BPSK Signal spotlight

The IWS also network observed a highly unusual, transient digital signal on the 20-meter band:

- * Modulation: BPSK (unidentified proprietary protocol) w/ KW-46 encryption
- * Bandwidth: 30 kHz
- * Data Rate: 12,500 bps
- * Duration: Logged as a singular, one-time event.

Further analysis and monitoring is ongoing to determine the source of this wideband transmission.



Unusual BPSK mode running at 12500bps and 30Khz BW on 14134.0 kHz USB

A sincere thank you to all national coordinators and voluntary listeners who submitted data during September. Your logs are critical to our ongoing efforts to safeguard amateur spectrum.

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
7000.0	06:09	04	09			G1D	2400	2K40	Stanag-4285
7000.0	19:30	05	09	RUS		RADAR	40	12K0E	OTHR Contayner, side by side with 7019
7007.0	19:05	13	09	RUS		W7D	40	12K0E	OTHR Contayner
7019.0	19:29 vt*	05 vd*	09	RUS		RADAR	40	12K0E	OTHR Contayner, * 7 reports on 7019 and 4 reports on 7176
7050.0	05:40 vt*	07 vd*	09			J3E-L		2K70E	Radiowar, Music, NON Ham Voice : UKR vs RUS, * often in the morning, sometimes on 7060. 7 Reports
7134.8	19:28	17	09	RUS		F1B	50	200H	Cis 50-50-200
7135.0	18:26	12	09	RUS		F1B	50	200H	same on 7137, even starting stopping in sync
7137.6	19:31	17	09	RUS		F1B	50	250H	cis-50-50-250hz
7162.0	21:02	21	09			B7D			link11
7198.0	15:35	03	09	RUS		J7D	120	2K60E	CIS-12, more than 24 hours heard , 2 reports
14002.0	14:59	14	09			F1B	75	850H	
14002.0	07:42	16	09			F1B	75	850	Guam
14004.0	12:41	10	09	RUS		F1B	75	500H	CIS75-500
14008.0	06:36 vt*	10 vd*	09	RUS		F1B	50	500H	cis-36-50-500, * 4 reports 10,11,14,16th. Morning time
14026.0	11:12 vt*	03 vd*	09	RUS		J7D	120	2K60E	CIS-12, * also on 10 and 14th. 3 reports
14081.0	08:39	01	09	RUS		F1B	50	250H	

DARC. Harald, DL9NDW and team: DF5JL, DE2TRF

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14109.0	10:13 vt*	03 vd*	09			J3E-U		2K70E	Radiowar, Music, NON Ham Voice : UKR vs RUS, *often, 3 reports
14119.0	06:57 vt*	10 vd*	09	RUS		F1B	50	200H	cis-50-50, *daily, 10 reports
14150.0	12:05	20	09	CHN		RADAR	50	10K0E	OTHR Bursts
14192.0	12:48	04	09	RUS		F1B	50	200H	
14281.0	16:40	14	09	CHN		RADAR	42	10K0E	OTHR Bursts
14323.0	14:18	03	09	CHN		RADAR	66.7	10K0E	OTHR Bursts
14335.0	12:50	06	09	RUS		RADAR	40	12K0E	OTHR Contayner
21156.0	13:14	30	09	RUS		RADAR	40	12K0E	OTHR Contayner
21438.0	10:06	30	09			A1A			Mil. Transmission , suspected greek mil.

IRTS. Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3650	1105	27	9	IRL		LSB			DQRM to a group of Irish Hams waiting for the Sunday HF 80 meters news bulletin which never started. Operators are recorded and their conversations are partly replayed. The theme from the “Benny Hill Show” is being played a few times. Ends around 1125z.
6980	2025	4	9			RADAR			Radar from 6980 to 7005 kHz.Strong and persistent.
7000	1925	26	9	INS		LSB			Village radio. Male voices, chatting. Strong signals.
7050	1635	7	9	RUS/ UKR		LSB			Russian-Ukrainian radio war. Strong and persistent signals.
7055	1840	30	9	RUS/ UKR		LSB			Russian-Ukrainian radio war. Huge and persistent signals.
7080	1920	30	9			RADAR			Radar from 7080 to 7105 kHz. Huge and persistent signal.
7136	2020	4	9			F1B			Strong and persistent signal. Still on 7 th of September, 2026 at 1655z.
7138	1930	26	9			F1B			Very strong, persistent.
7159	1835	30	9			DQPSK			Link-11 CLEW. Strong and persistent.
7160.5	2030	14	9			DQPSK			Link-11 CLEW. Low to medium signal. Persistent.

IRTS. Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7180	2040	29	9			RADAR			Radar from 7180 to 7200 kHz. Huge and persistent signal.
7197	1555	30	9			PSK			Strong and persistent signal.
10121.5	0855	21	9	MRC or MM		USB			North African fishermen. At least two boats. Strong signals.
10130.9	0835	13	9	MRC or MM		USB			North African fishermen. Several boats. Medium signals.
14118	1645	3	9			F1B			Very strong signal. Also heard on the 13 th at 0830z, 15 th at 1130z and the 29 th at 1030z.
14127	830	27	9			F1B			Strong signal.
14137	1030	29	9	RUS/ UKR		USB			Russian-Ukrainian radio war. Huge and persistent signals.
14191	1315	2	9	RUS		F1B			Russian navy, Kaliningrad. Heard daily all hours of the day with a medium to strong signal.
14236	1215	28	9			USB			Pop music being played. Strong and persistent signal.
14255	1025	29	9			F1B			Very strong and persistent signal.
14300	835	13	9	CHN		RADAR			Radar from 14300 to 14310 kHz. Chinese Foghorn. Strong and persistent signal.
14340	830	13	9			RADAR			Radar from 14340 to 14360 kHz. Strong and persistent signal.
18130	1030	18	9	CHN		RADAR			Radar from 18130 to 18140 kHz. Chinese Foghorn. Medium signal.
21110	1130	15	9			RADAR			Radar from 21110 to 21130 kHz. Medium and persistent signal.
21150	1020	29	9			RADAR			Radar from 21150 21165 kHz. Medium signal. Persistent.
21265	1650	4	9			RADAR			Radar from 21265 to 21285 kHz. Strong and persistent.
21390	930	23	9			RADAR			Radar from 21390 to 21410 kHz. Medium and persistent signal.
21438	930	2	9	UKR		CW			Russian navy, Sevastopol. Heard daily with a weak to medium signal.
145650	1900	15	9	IRL		FM			DQRM to the Tuesday evening IRTS news. Replaying of callers. All sorts of noise is broadcast. It only stops at the end of the call in. Same thing happens on the 22 nd .

PZK. Mirek, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7192.0	1715	22	09			RADAR		16K0E	S9+
10117.0	1715	24	09			RADAR		14K0E	S9
14001.0	0840	02	09	RUS		CIS12		3K0E	S5
14002.0	1130	16	09			F1B		800	S9
14006.0	0740	30	09	RUS		CIS12		3K0E	S9
14008.0	vt	vd	09			F1B		500	S9+
14050.0	1235	25	09			RADAR		10K0E	3 sec. bursts also 14290.0
14119.0	vt	vd	09			F1B		200	S9
14131.0	1520	17	09			RADAR		10K0E	S6, 2 sec. on 2 sec. off
14140.0	1615	01	09			RADAR		10K0E	5 sec. bursts
14148.5	1240	10	09			F1B		200	S9 similar to rtty, sending 1 sec. packets
14160.0	1055	25	09			RADAR		10K0E	5 sec. bursts
14178.0	1220	03	09			RADAR		10K0E	6 sec. bursts
14180.0	0823	15	09			RADAR		10K0E	5 sec. bursts
14184.0	1232	19	09			RADAR		10K0E	5 sec. bursts
14230.0	0910	02	09			RADAR		20K0E	S9++
14292.0	0755	15	09			F1B		500	S9
14323.4	1215	03	09			RADAR		10K0E	3 sec. bursts
14340.0	vt	vd	09	RUS		CIS12		3K0E	S8
14348.0	1230	30	09			RADAR		10K0E	S9
18074.0	1120	28	09			RADAR		20K0E	S9
18080.0	0735	18	09			A3E		6K0E	Radio in Chinese or similar language
18107.0	0800	15	09			F1B		200	S9+
18132.0	0735	18	09			RADAR		10K0E	3 sec. bursts
21108.0	0805	15	09			RADAR		10K0E	5 sec. bursts
21300.0	1230	11	09			RADAR		20K0E	S9+
21347.0	0925	19	09			RADAR		10K0E	4 sec. bursts
21381.0	1000	23	09			RADAR		10K0E	3 sec. bursts also 21332.0
21400.0	1000	23	09			RADAR		20K0E	S9

REP. Paulo, CT2IWW

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7000.0	21:12	03	09			G1D	2400	2K40E	STANAG 4285 unid
7003.0	19:27	15	09	RUS		RADAR	40	12K0E	OTHR Contayner
7012.0	01:52	22	09			J3E-U		2K70E	unid Spanish lang fishery
7055.0	06:59	16	09			J3E-L		2K70E	UKR/RUS war of words
7064.0	23:10	20	09	RUS		RADAR	40	12K0E	OTHR Contayner
7089.0	19:38	30	09	RUS		RADAR	40	12K0ER	OTHR Contayner
7114.0	21:59	20	09	RUS		F1B	50	250H	CIS 50-50
7135.0	20:13	17	09	RUS		F1B	50	200H	FSK and CW – vt, vd
7137.0	20:12	17	09	RUS	RDL	F1B	50	250H	Vt, vd
7159.0	01:41	22	09			G7D	75	2K40E	7159 USB LINK11 CLEW
7159.0	07:57	30	09			B7D	75	6K0E	7159.0 kHz DSB LINK11 CLEW
7176.0	20:24	03	09	RUS		RADAR	40	12K0E	OTHR Contayner
7198.0	20:29	03	09	RUS		J7D	120	2K80E	7198.0 kHz USB CIS-12
7200.0	01:48	22	09			J3E-L		2K7E0	unid music broadcast
14000.0	08:10	30	09	RUS		J7D	125	2K80E	USB 13999.0 kHz, partially inside 20m band
14000.0	09:20	30	09			MIL-188-141CALE3G	2400	CA3K0E	Vt, vd
14001.0	07:13	25	09	ISR	4XZ	A1A	20		vvv de 4XZ 4XZ followed by 5 letter msg. Vt, vd
14002.0	19:33	14	09	GUM		F1B	75	850H	STANAG 4481 vt, vd
14008.0	09:10	07	09	RUS		F1B	50	250H	
14008.0	13:11	10	09	RUS		F1B	50	500H	250 and 500 hz bandwidths, possibly two TX sites on same frequency
14008.0	09:33	14	09	RUS		F1B	50	500H	CIS-36-50, vt, vd
14014.0	12:04	21	09	MRC		J3E-U		2K80E	unid Darija dialect SSB ops disturbing amateur CW
14017.0	07:49	28	09	CHN		RADAR	66.7	10K0E	OTHR "Foghorn" bursts
14024.0	09:52	10	09	RUS		J7D	120	2K80E	CIS-12 w/ 3khz pilot tone
14050.0	09:10	07	09			F1B	75	200H	Encrypted FSK

REP. Paulo, CT2IWW

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14064.3	09:46	10	09			J3E-U			unid calling Aziz, no answer
14067.3	08:57	10	09			F1B	50	500H	unid FSK, weak
14110.0	08:10	04	09			J3E-U		2K80E	UKR/RUS war of words, insults
14111.0	09:35	07	09			J3E-U			Arabic lang. fishery
14119.0	08:22	04	09	RUS		F1B	50	200H	CIS 36-50, CW vt, vd
14121.3	08:34	04	09			J3E-U		2K80E	Arabic language fishery, daily
14130.0	08:53	17	09			J3E-U		2K80E	UKR/RUS war of words, rebroadcast of religious speech
14133.0	08:01	30	09			F1B	75	250H	
14134.0	21:05	07	09			XXX	12500	30K0E	unid BPSK mode 12500bd 30khz wide
14135.0	08:23	25	09			A1A	20		unid string of letters and numbers, no id, hand sent
14141.0	10:53	28	09			F1B	75	500H	
14141.3	08:47	01	09			J3E-U		2K80E	Arabic language fishery, engine noises
14175.0	09:03	24	09			XXX	20	20K0E	very brief bursts in multiple frequencies
14192.0	09:51	07	09	RUS		F1B	50	200H	daily
14240.0	09:10	07	09			F1B	75	250H	
14245.0	08:07	14	09	CHN		RADAR	66.7	10K0E	OTHR "Foghorn" bursts
14251.5	12:02	30	09			F1D	600	600H	
14292.0	08:54	10	09			F1B	75	500H	unid encrypted FSK 75bd/500hz
14292.0	07:40	15	09	RUS		F1B	75	500H	
14311.0	09:12	24	09	RUS		RADAR	66.7	10K0E	OTHR "Foghorn" bursts
14335.0	12:32	06	09	RUS		RADAR	40	12K0E	OTHR Contayner
14338.5	08:09	14	09	KRE		F1D	600	600H	DPRK FSK 600, North Korea diplo comms
14345.0	08:24	30	09	CHN		RADAR	66.7	10K0E	OTHR "Foghorn" bursts
18107.0	08:28	04	09	RUS		F1B	50	200H	CIS 50-50
21113.0	10:05	22	09	RUS		F1B	50	200H	CIS 50-50
21382.0	10:01	22	09	CHN		RADAR	42	20K0E	OTHR "Foghorn" bursts

REP. Paulo, CT2IWW

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21400.0	12:45	24	09	G		RADAR	50	20K0E	UK SBA Cyprus
28050.0	19:32	28	09			F1B	51	300H	ENAGAL GPS buoy
28065.0	17:23	06	09	B		A3E			Brazilian outbanders, roger beeps
28105.0	17:33	06	09	B		A3E			Brazilian outbanders, roger beeps
28115.0	17:28	06	09	B		A3E			Brazilian outbanders, multiple ops, unstable carriers
28125.0	19:37	07	09	B		A3E			Brazilian truckers, roger beeps
28135.0	13:01	24	09	B		A3E			Brazilian truckers, outbanders
28145.0	17:27	06	09	B		A3E			Brazilian outbanders, roger beeps
28150.0	17:25	06	09	B		A3E			Brazilian outbanders, OM and YL
28155.0	17:32	06	09	B		A3E			Brazilian outbanders, OM and YL
28255.0	14:43	24	09	B		A3E			Brazilian truckers, outbanders
28265.0	18:23	07	09	B		A3E			Brazilian truckers / outbanders, several QSO's ongoing
28275.0	19:38	07	09	B		A3E			Brazilian truckers, roger beeps
28305.0	19:36	07	09	B		A3E			Brazilian truckers, roger beeps

SRAL. Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7 MHz	1520-0800	*	9	RUS		RADAR	40 sps	13k0E	*) Days: . 3. 4. 7. - 11. 14. 15. 21. 29. 30. (WebSDR 28d)
7016.0	0920-1430	*	9	RUS		F1B		250	*) Days: 18. 19. 23.
7020.0	1230-1330	15	9	RUS		J7D-dsb		6k60	
7021.0	1400-1530	01 03	9	RUS		J7D	120	2k60E	
7035.1	0000-2400	01-30	9	RUS		R3E-I		3k60E	1 sec. tick, 240 Hz tone and hum
7044.0	1345-1715	*	9	RUS		F1B		250H	*) Days: 8. 14. 15. 21. 23.
7062.0	0825-1450/	20	9	RUS		J7D	120	2k60E	
7074.0	0830-1315/	02 17	9	RUS		J7D	120	2k60E	
7076.0	0700-1700/	*	9	RUS		J7D	120	2k60E	*) Days: 4. 23. 24.

SRAL. Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7080.0	1700-1830	*	9	RUS		F1B		200H	*) Days: 7. 10. - 16. 18. 20. - 22. 30.
7104.0	0430-0530	*	9	RUS		F1B		500H	*) Days: 2. 24. 30.
7114.0	0500-0845	*	9	RUS		F1B		200/250H	*) Days: 10. 11. 15. 17. 20. 21. 23.
7115.0	0700-0733/	*	9	RUS	475	R3A-u	13wpm	1k5E	*) Days: 2. 27. 30. 750H tone, 5F groups twice
7135.0	1700-1830	*	9	RUS		F1B		200H	*) Days: 1. 6. 7. 10. - 16. 18. 20. - 22. 30.
7159.0	0430-1600	*	9	IW		G7D		2k40E	*) Days: 18. - 23. 27. 28. LINK11 usb
7159.0	0450-1330	30	9	IW		B7D		6k0	LINK11 dsb
10 MHz	0645-0710	15	9	G		RADAR	50 sps	20k0	(WebSDR 5d)
10 MHz	0415-1600	*	9	RUS		RADAR	40sps	13k0E	*) Days: 1. 6. 12. 14. 19. 26. (WebSDR 20d)
14 MHz	0545-1545	*	9	RUS		RADAR	40sps	13k0E	*) Days: 2. 5. - 8. 13. 15. 16. 19. 22. 29. 30. (WebSDR 28d)
14 MHz	0500-1810	*	9	CHN		RADAR	50/67/8 3.3 sps	10k0/20k0	*) Days: 3. 13. - 17. 19. - 25. 29. 30. 'foghorn'
14000 A	0500-1315	*	9		SuperDAR N	RADAR		6k0E	*) Days: 21. 22. 23- 30. up to 14025 in 5 kHz raster. Fq jump every 1 min
14001.0	0555-0840	25	9	ISR	4XZ	A1A	20wpm	40H	5L
14001.0	0800-0835	*	9	RUS		J7D	120	2k60E	*) Days: 11. 13. 14. 16. - 26. 28. - 30.
14008.0	0440-1410	*	9	RUS		F1B		250H/500H	*) Days: 1. - 20.
14025.0	0445-1800	14 - 16	9	RUS		F1B		850H	
14119.0	0445-1700	01 - 30	9	RUS	RDL	F1B/A		200	5F
14192.0	0800-1800	*	9	RUS		F1B		250H	*) Days: 1. 2. 4. 6. 25.
14221.0	0445-0600/	01 - 30	9	KAZ		F1B		250H	
14266.0	0655-1100	17 29	9	RUS		F1B		200H	
14280.0	0830-1025/	29	9	RUS		F1B		250H	
14342.0	1030-1235/	29	9	RUS		F1B		250H	
18 MHz	1300-1400	29	9	G		RADAR	25/50 sps	20k0	(WebSDR 3d)
18 MHz	0915-1600	*	9	RUS		RADAR	40 sps	13k0E	*) Days: 1. 2. 10. 16. 18. (WebSDR 5d)
21 MHz	0415-1300	*	9	G		RADAR	25/50 sps	20k0	*) Days: 11. 15. 21. - 25. (WebSDR 8d)
21 MHz	0800-1715	*	9	RUS		RADAR	40 sps	13k0E	*) Days: 4. 6. 19. 24. (WebSDR 8d)

SRAL. Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21 MHz	0545-1200	*	9	CHN		RADAR	50/67/8 3.3 sps	10k0/ 20k0	*) Days: 12. 17. - 25. 'foghorn'
21438.0	/0830-1230	01 - 30	9	RUS	RCV	A1A	18 - 24 wpm	40H	
24 MHz			9	G		RADAR	25/50sp s	20k0	(WebSDR 1d)
24 MHz			9	RUS		RADAR	40sps	13k0E	(WebSDR 0d)
28 MHz	0820	25	9	G		RADAR	25/50sp s	20k0	(WebSDR 0d)

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

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6999.0	1737	09	09	RUS		RADAR	40	12K0E	CF; OTHR Kontayner; modulated with 10 and 13Hz "tones"; very strange; partly in 40m CW-band.
7019.0	1738	14	09	RUS		RADAR	40	12K0E	CF; OTHR Kontayner
7044.0	1512	23	09	RUS		F1B		250H	UiPrinter
7060.0	vt	vd	09	UKR		J3E-L		3K0E	UKR-RUS Radiowar; comments, slogans (against Putin) & music/songs; many days
7065.0	2326	12	09	RUS		F1B			Printer; idling
7080.0	1745	10	09	RUS		F1B		200H	Printer
7135.0	1750	10	09	RUS		F1B		200H	Printer; s9+; splatters
7135.0	2112	17	09	RUS		F1B		200H	Printer; s9
7176.0	2042	03	09	RUS		RADAR	40	12K0E	CF; OTHR Kontayner
7176.0	1733	14	09			F1B		250H	Printer; S9+; splatters
7178.0	1458	09	09			PSK		2K80E	Unknown PSK signal; STANAG-like
10110.0	2328	20	09	RUS		RADAR	40	12K0E	OTHR Kontayner
14107.0	1454	09	09			XXX	10	8K0E	CF; Unknown sig; burst abt 15 sec
14118.0	vt	vd	09			F1B		200H	UiPtr; almost daily
14119.0	1323	08	09	RUS		F1B		200H	Printer; s9+
14122.0	1742	07	09	RUS		RADAR	40	12K0E	CF; OTHR Kontayner; modulated with 8Hz "tone"; very strange
14155.0	1441	16	09			XXX	10	8K0E	CF; Unknown sig; short bursts; duration abt 10 sec.
14178.0	1853	07	09			XXX	10	8K0E	CF; Unknown sig; short burst abt 10 sec
14180.0	1451	09	09	RUS		RADAR	40	12K0E	CF; OTHR Kontayner
14181.0	1326	08	09			XXX	10	8K0E	CF; Unknown sig; short burst abt 10 sec

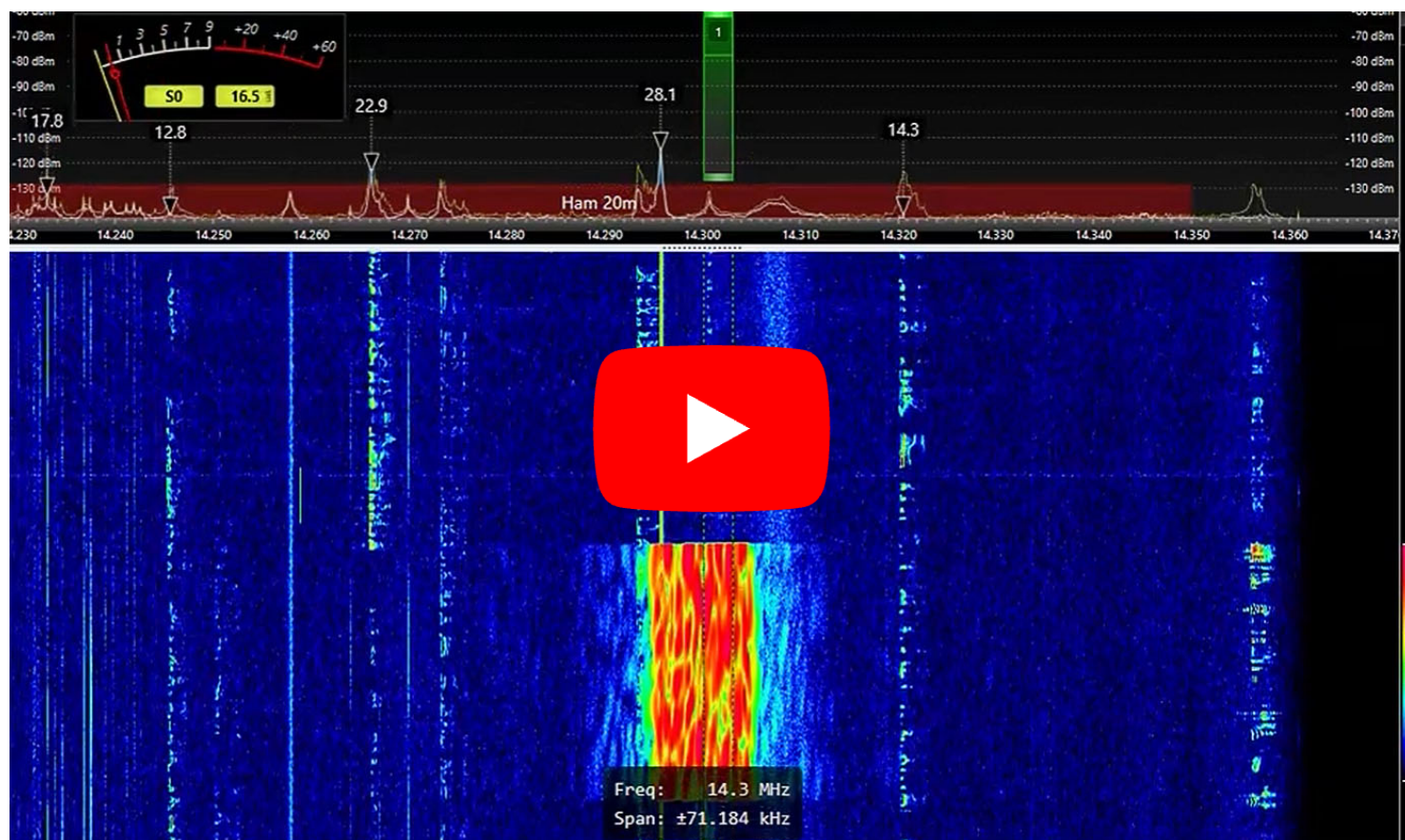
VERON: Ruud PG1R, Credits to observers Dick PA0GRU, Johan PA25027

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14192.0	1504	23	09	RUS		F1B		200H	Printer RUS navy Kaliningrad
14195.0	1505	23	09	CHN		RADAR	42	10K0E	CF; OTHR; 3 sec bursts
14240.0	1454	23	09	CHN		RADAR	42	10K0E	CF; OTHR; 3 sec bursts
14279.0	1000	29	09			F1B		200H	UiPtr
14299.0	1848	24	09	J ?		8-FSK		2K40E	CF; probably Japan Mil 8 channel FSK?
18107.0	1434	16	09	RUS		F1B		200H	Printer; S9+; stopped 1445utc
21172.0	1408	13	09			RADAR			

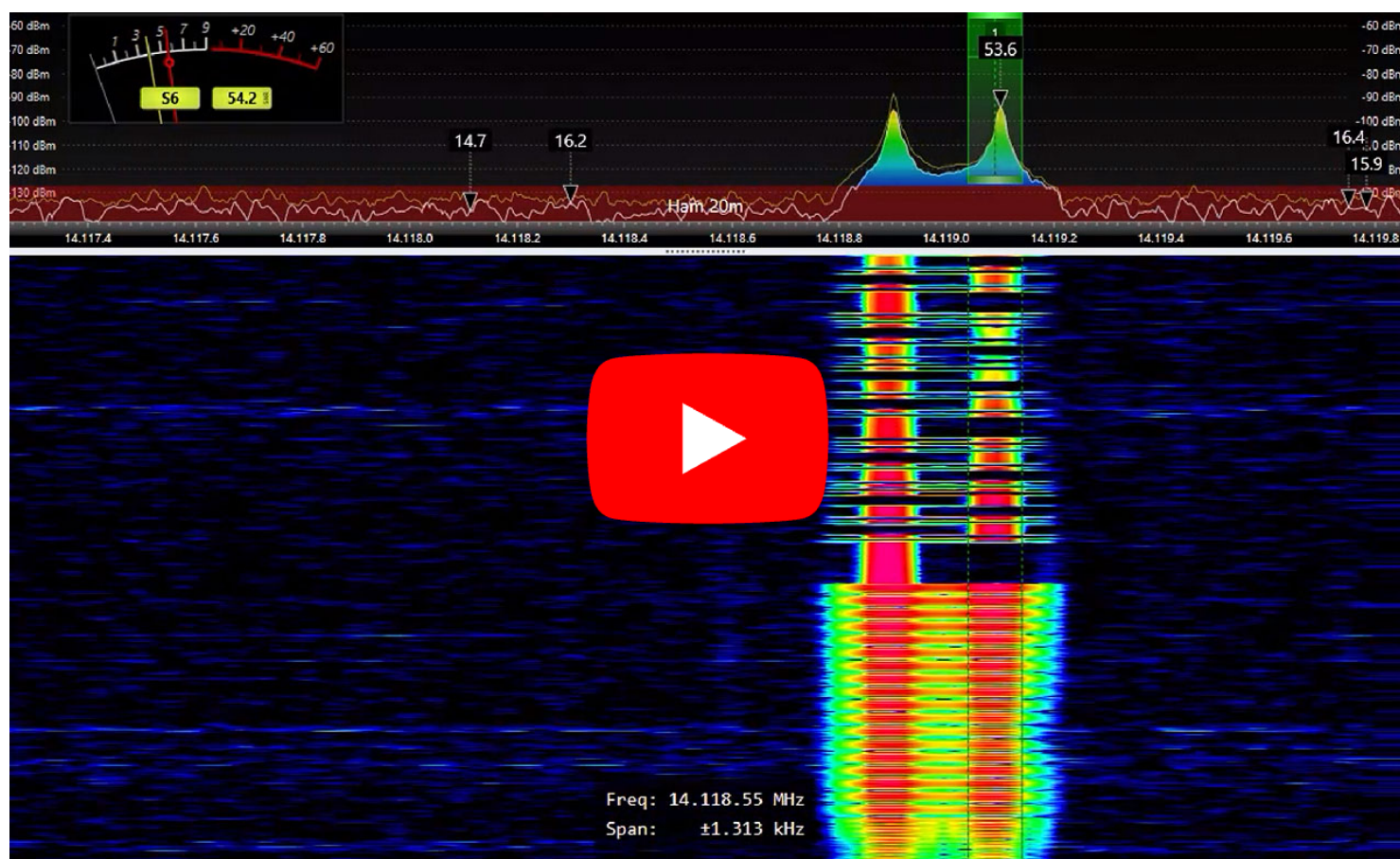
Contact: Paulo Teixeira CT2IWW / Harald Geier DL9NDW IARU IWS coordinators: iws@iaru-r1.org

IARU IWS R1 coordinators: <https://www.iaru-r1.org/spectrum/monitoring-system/iarums-region-1-coordinators/>

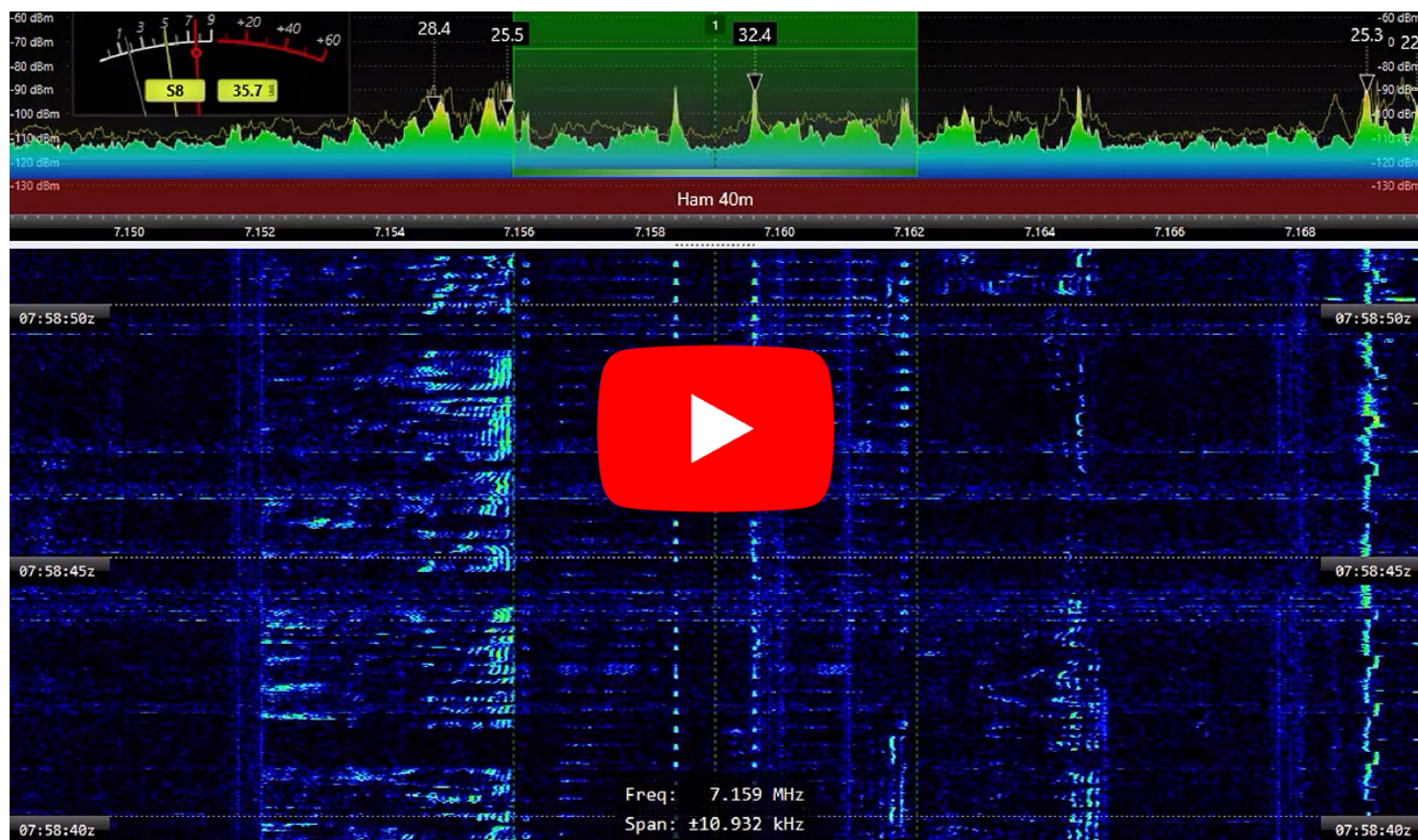
Visit our website: <https://www.iaru-r1.org/about-us/committees-and-working-groups/iarums/>



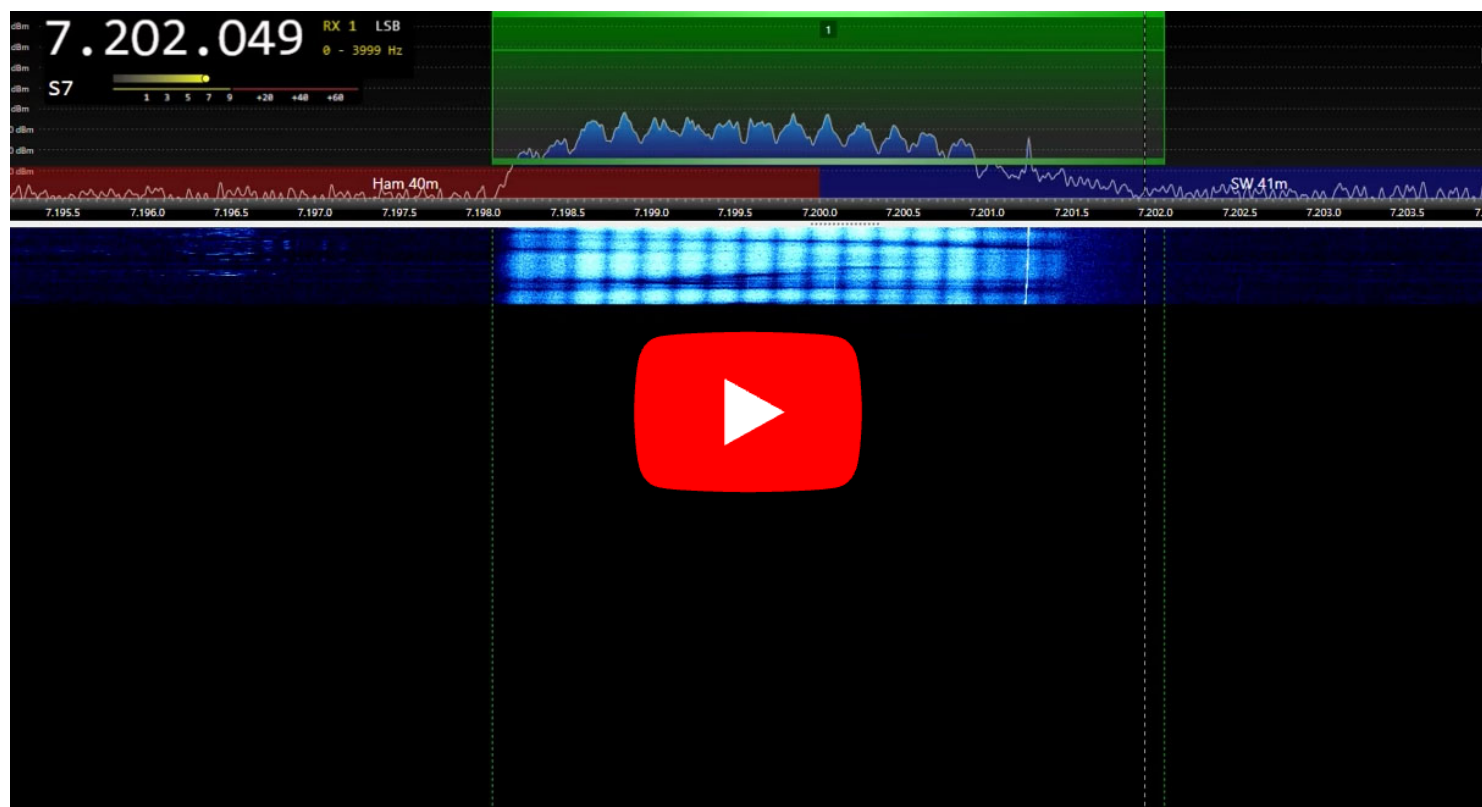
CHN Foghorn Over the Horizon Radar transmitting on 20m at 66.7 sps 10kHz BW



RDL (Krasdonar, RUS) switching from FSK to CW w/id. 14119.0 kHz CF



LINK11 Double Sideband (DSB) CLEW on 7159,0 kHz CF



CIS12 120bdx12 2.6 kHz BW on 7198.0 kHz CF