



Monthly Newsletter - January 2026

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



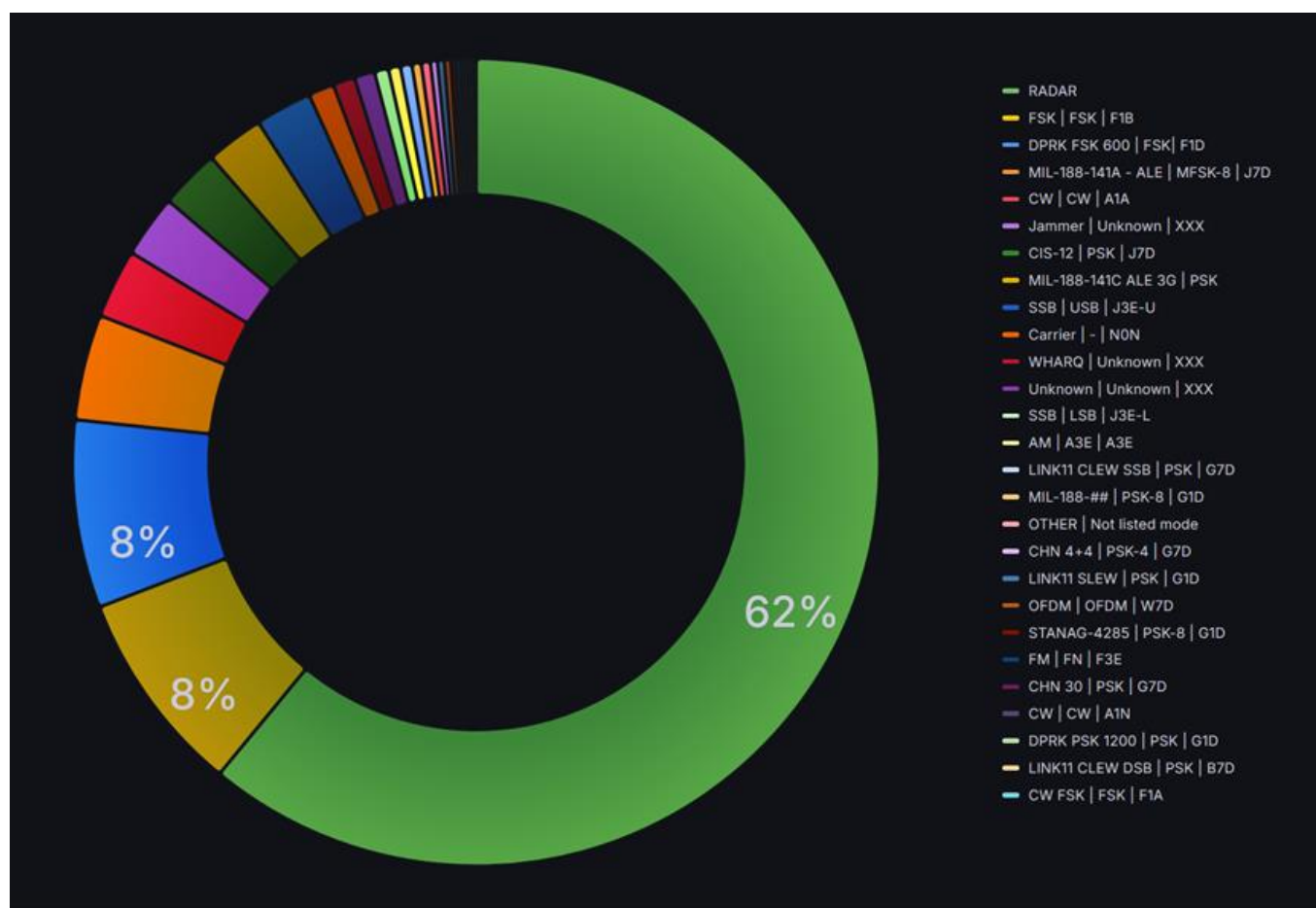
- **IARU IWS Wiki:** find more information, screenshots, videos and recordings of the transmission modes most used by non-amateur stations on the amateur radio bands: <https://www.iaru-r1.org/spectrum/monitoring-system/iarums-wiki/>

News and Info

At the time of starting to draft this first issue of the IARU Intruder Watch Service (IARU IWS) Newsletter for the year 2026, it is difficult to avoid the expression “*same old, same old*” coming to mind.

Indeed, no crystal ball is required to foresee the range of non-amateur transmissions that lies ahead of us.

From the very first day of the year, we already know that throughout the whole of 2026, regardless of propagation conditions, the HF spectrum segments allocated to the amateur service will once again be flooded by non-amateur transmissions. These will continue to hinder radio amateurs’ ability to make full and proper use of their bands—exactly as has been the case in previous years, and, regrettably, for many years now.



Non-amateur transmissions classified by transmission mode, 2025. In 2026, these figures are likely to vary slightly, but it is most likely that the proportions among the different transmission modes will remain unchanged

We also know in advance that the nature of these transmissions will be just as disruptive (if not more so—let us hope this will not be the case). Their impact is usually aggravated by their long-lasting character, by the high power levels employed, and, in most cases, by their excessive bandwidth. Once such transmissions appear on any amateur band, they immediately reduce the usable spectrum available to radio amateurs. This situation is further worsened when multiple transmissions—whether of the same type or not, and whether originating from the same country or from different ones—are simultaneously present within the same band.

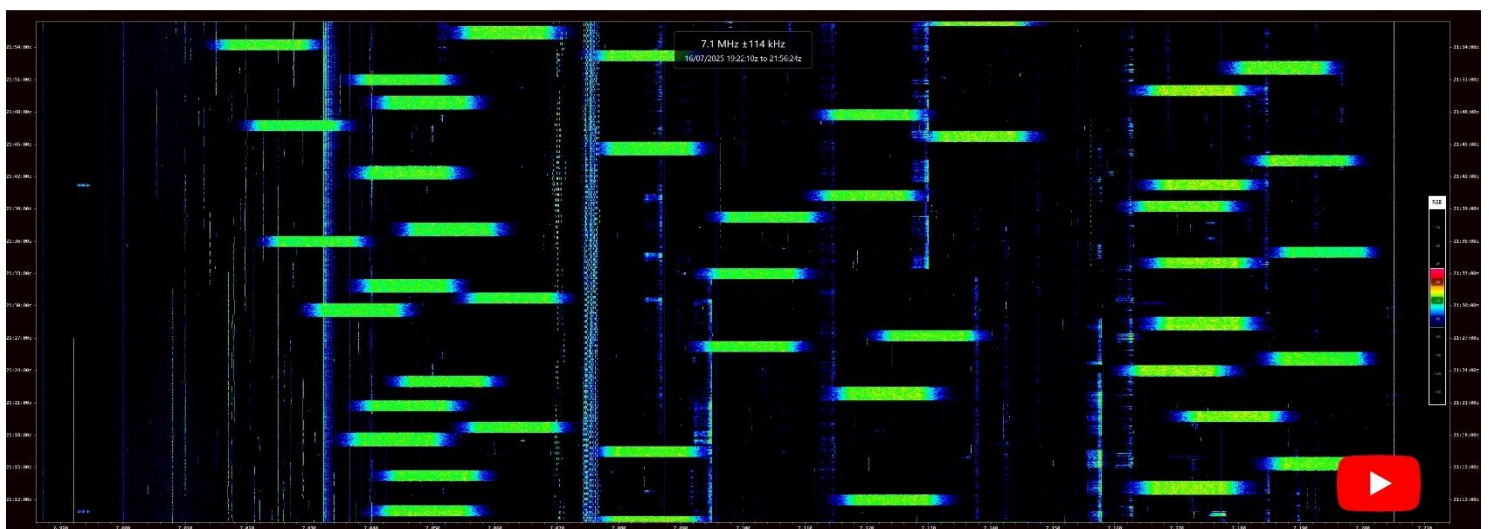
Experience has also taught us which types of non-amateur transmissions will occupy the largest share of our monthly reports, as they have, for many years now and in the order in which they are listed, been the ones most frequently received each month. These include radar transmissions (primarily, though not exclusively, Over-The-Horizon radars used for military purposes), as well as predominantly digital transmissions employed for military communications. In addition, and with increasing frequency due to their widespread and growing use in the field of Electronic Warfare (EW), the ones of the so-called jammers (the purpose of these systems is to prevent or severely degrade radio reception or transmission by deliberately emitting powerful and often wideband signals designed to cause interference).

Furthermore, as evidenced during 2025 and previous years, the technological advances adopted by operators of such systems—such as frequency-hopping techniques, whether in OTH radar transmissions or in digital military communication modes, and the use of ever-wider bandwidths—will pose an additional challenge for radio amateurs attempting to avoid or mitigate the severe impact of these transmissions on the amateur HF spectrum. It is also likely that new transmitting sites and/or new transmission modes will be added to those already all too familiar.

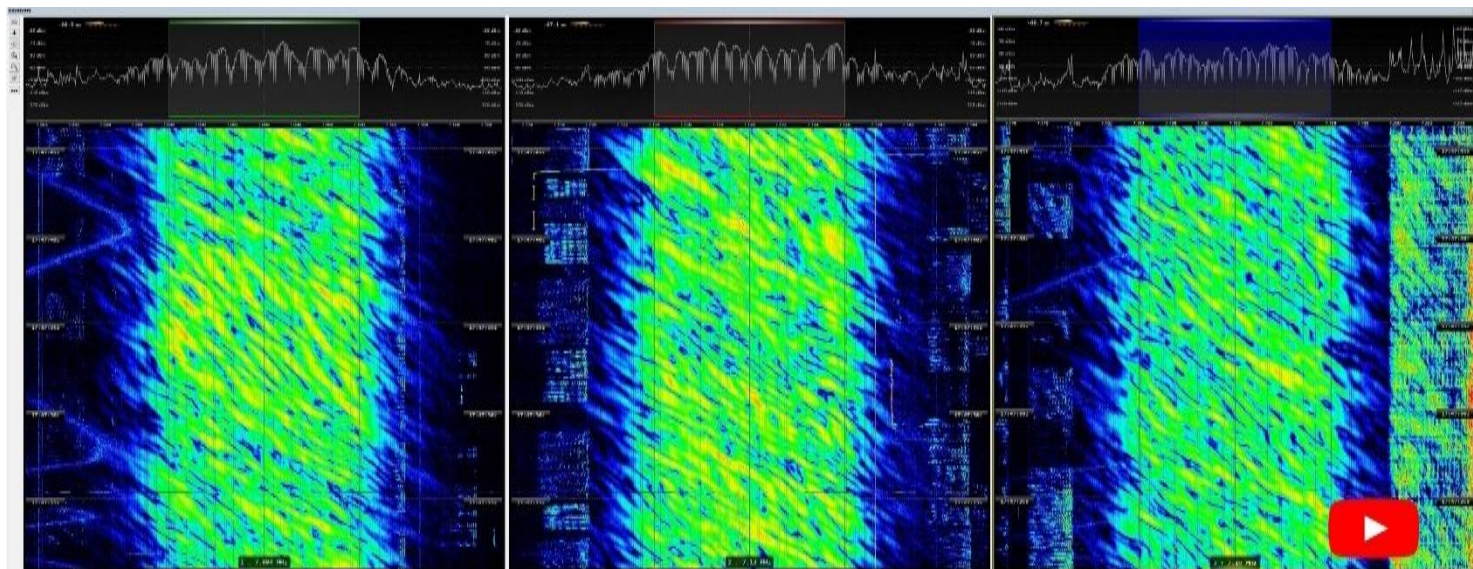
In addition to these categories of transmissions, we know that we will continue to receive signals illegally emitted within the amateur HF bands by fishermen, truck drivers, taxi-dispatch systems, and others who misuse spectrum allocated to the amateur service for their own communications.

Through this Newsletter, we denounce all such transmissions and the disruption they cause to the HF bands allocated to radio amateurs. The volunteers of the IARU Intruder Watch Service will continue to collect information and data on these transmissions, in order to classify them, identify their origin, and—whenever possible—for the *“initiation of steps leading to the removal from amateur bands of non-amateur stations causing harmful interference to the amateur and amateur satellite services contrary to International Telecommunication Union (ITU) Radio Regulations”* (excerpt from the IARU IWS Terms of Reference), which remains the primary objective of this IARU workgroup

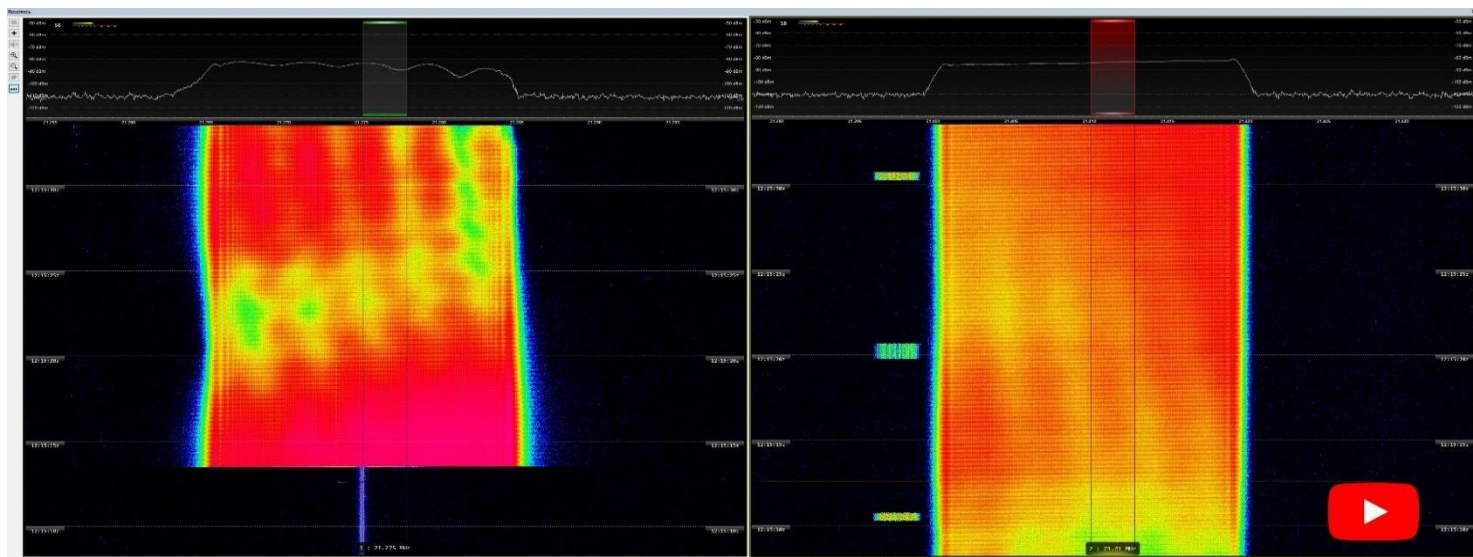
Regrettably, throughout 2026 we will undoubtedly encounter, on numerous occasions, transmissions such as those illustrated below, which represent only a small sample of the various types that may be received each month within the amateur HF bands.



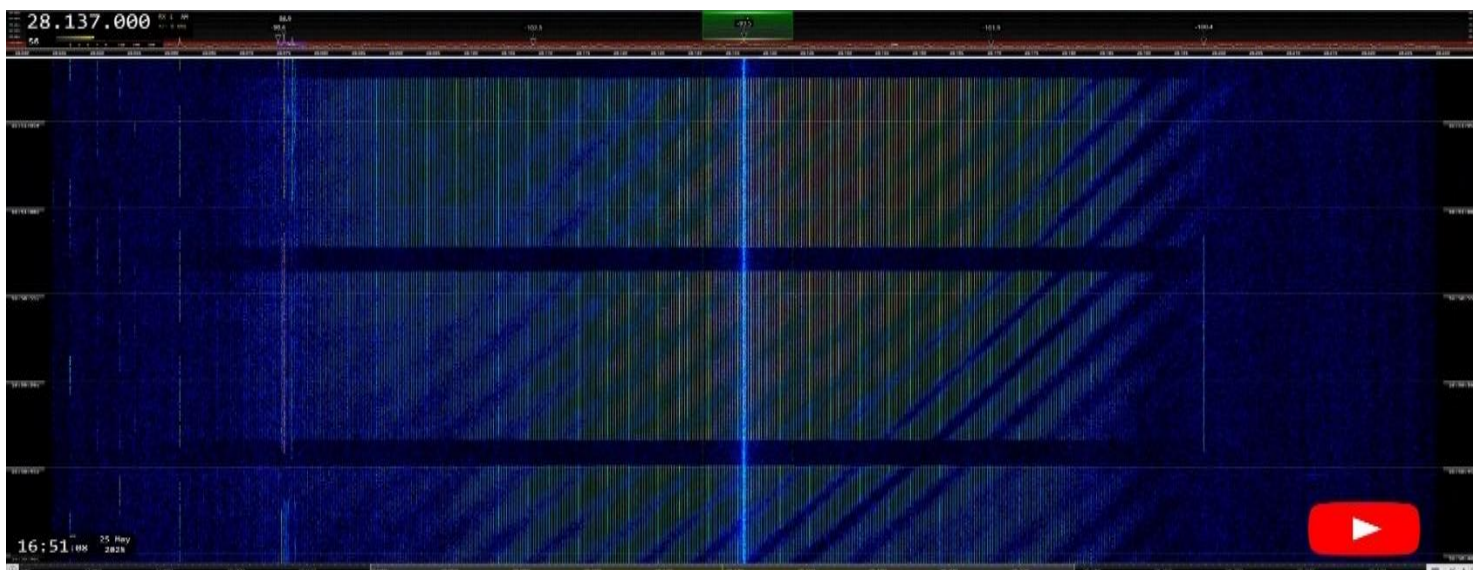
40m: OTHR Contayner. RUS, BW = 12 kHz. 40 pps. Hopping mode. Time shown: aproximately 50 minutes



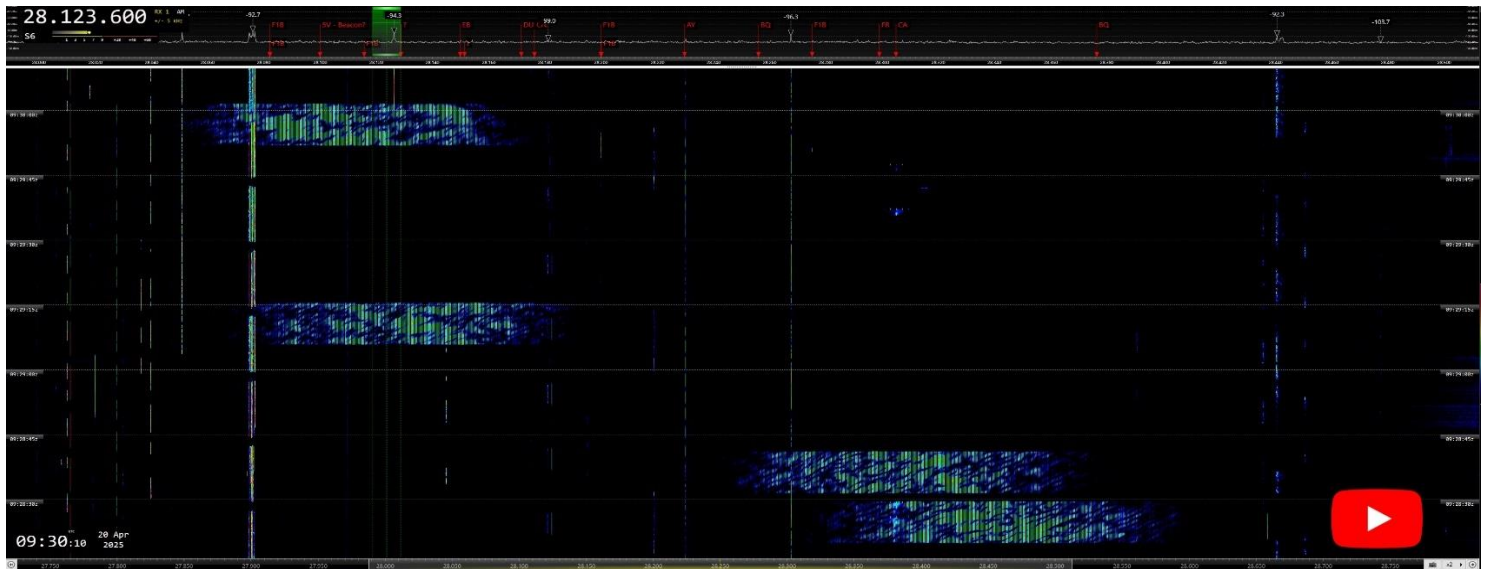
40m. 3 X OTHR Contayner. RUS. BW = 12 kHz. PRF = 40 pps



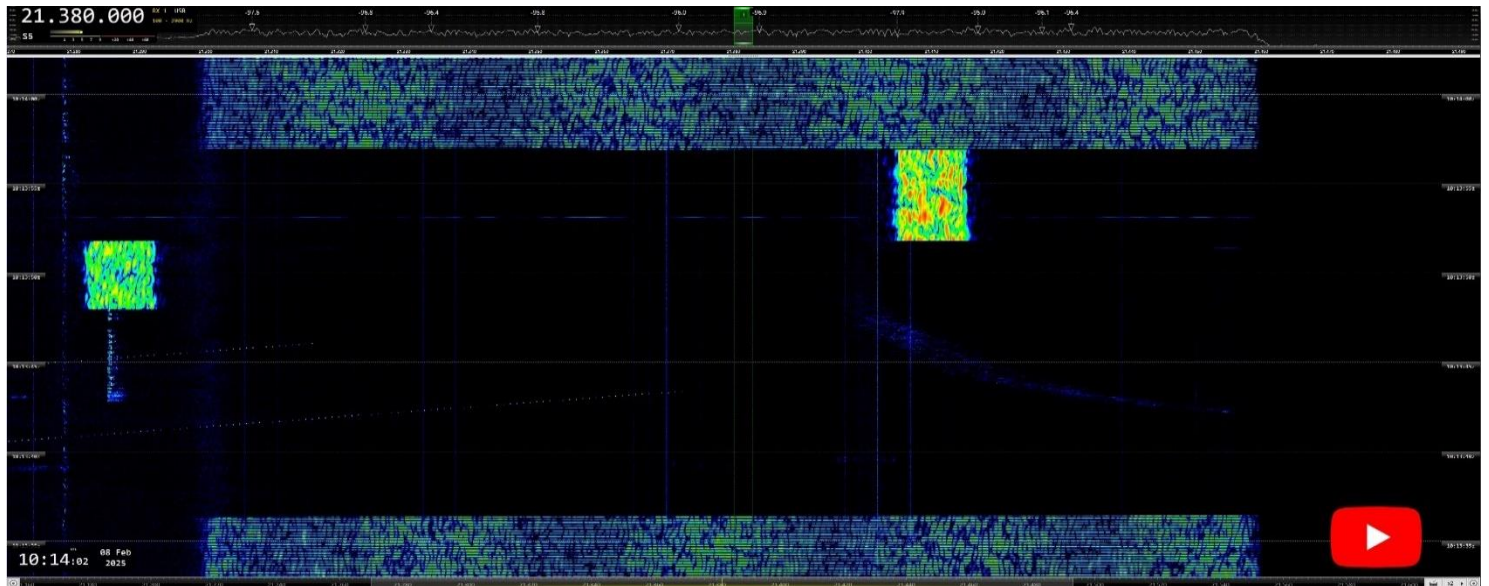
15m. 2 X British OTHR. G. (UK SAB, Cyprus). BW = 20 kHz. PRF = 50 pps



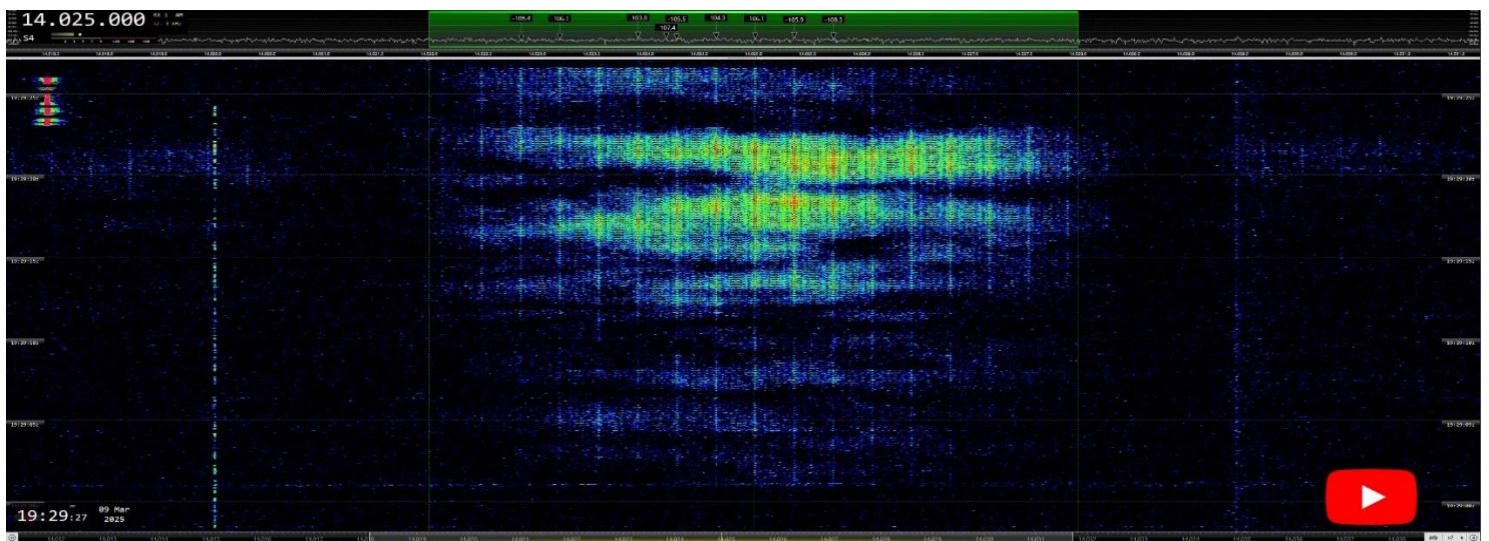
28135 kHz: OTHR IRN using new PRF (355 pps) and new bandwidth (ca 70 kHz)



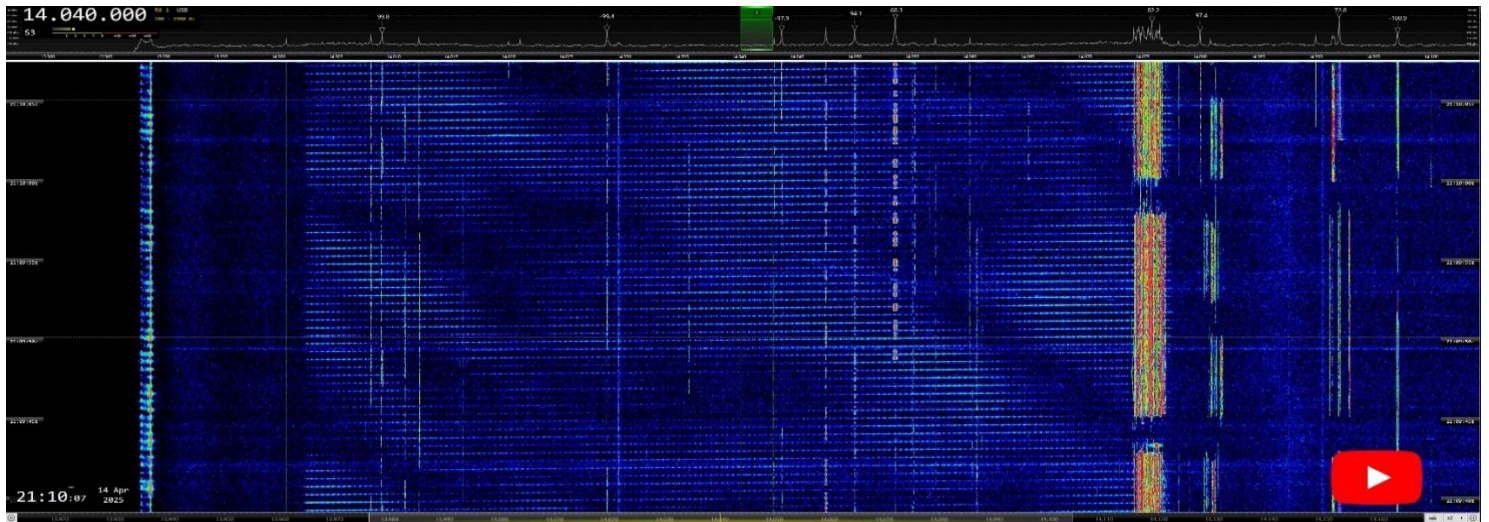
10 m: OTHR IRN using new PRF: 396 pps. BW ca 45 kHz. Hopping after every burst



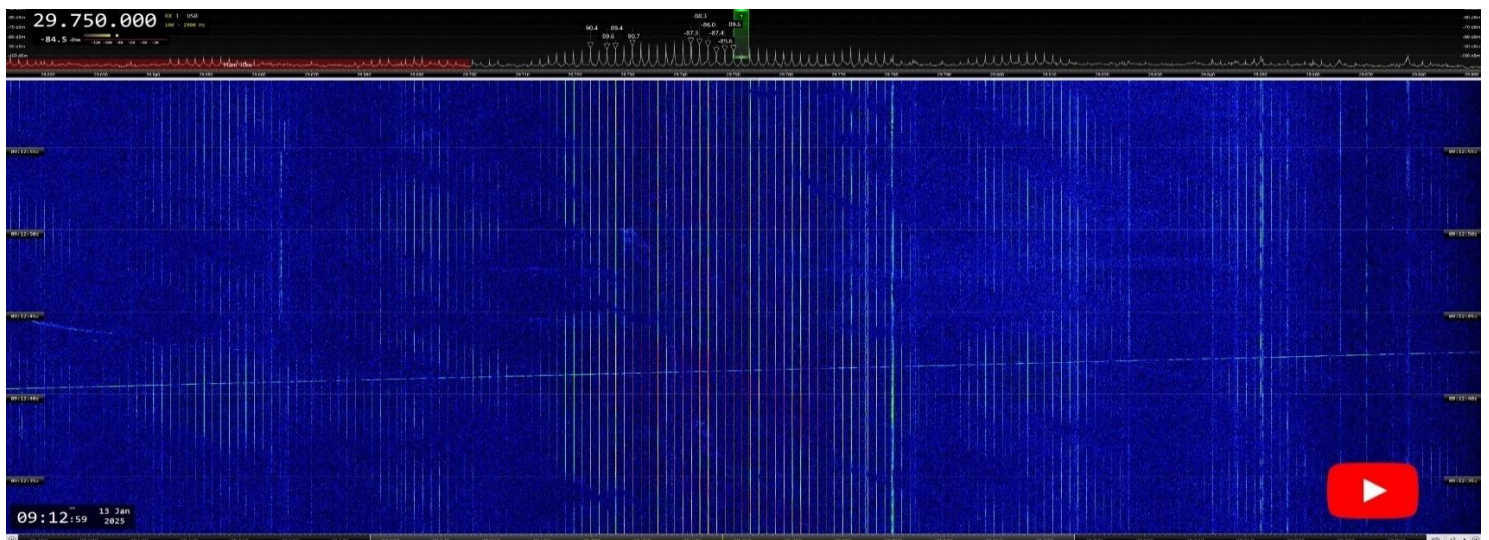
CHN wideband OTHR. BW = 160 kHz. PRF = 10 pps. Also, CHN OTHR „Foghorn“ bursts (BW = 10 kHz. 50 pps)



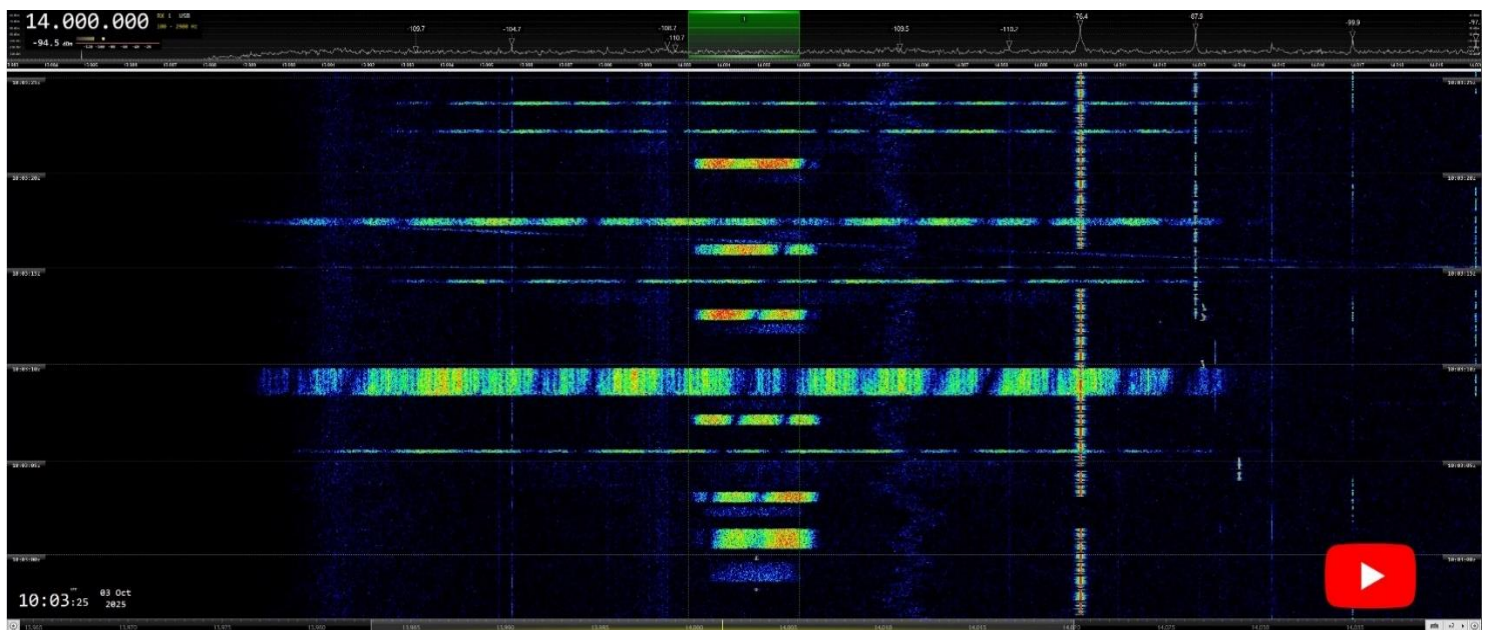
SuperDARN(Super Dual Auroral Radar Network) bursts. Hopping from 14000 kHz CF to 14025 kHz CF, using a 5 kHz raster. BW ca 6 kHz



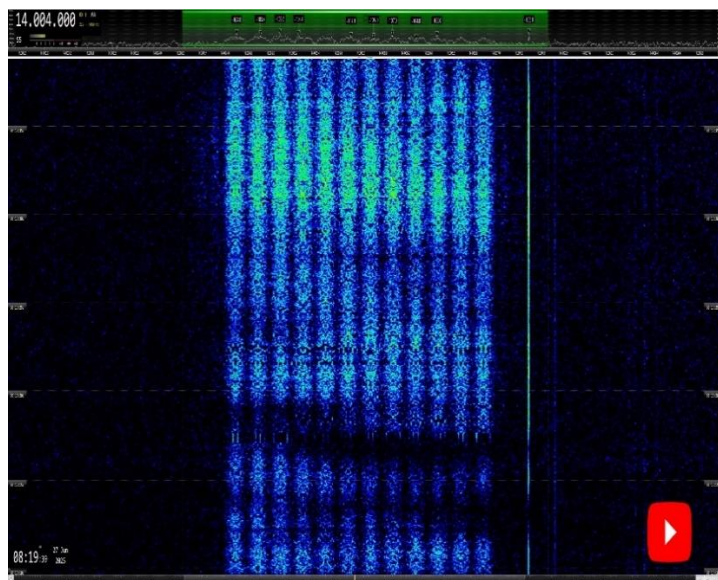
CODAR (Coastal Ocean Dynamics Applications Radar) radar. BW = 80 kHz. PRF = 2 pps



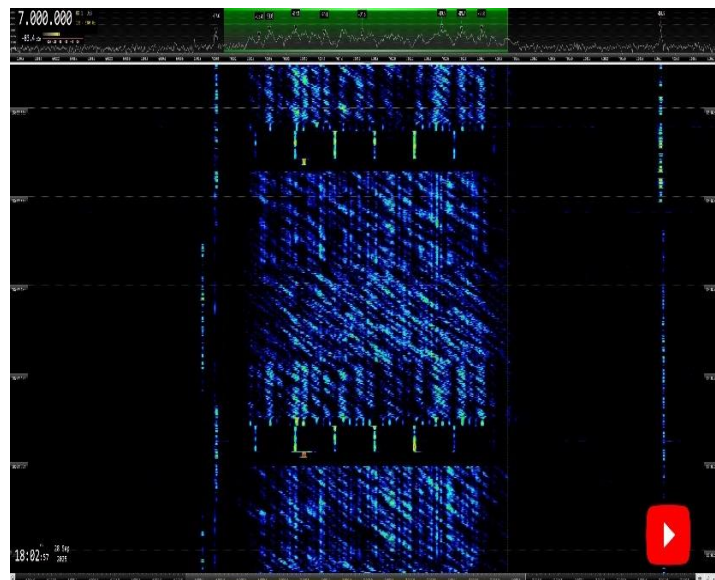
29750 kHz: Kazan University Meteor Radar. RUS. BW ca 60 kHz. PRF = 1592 pulses per second (pps). Lower side lobes to 29550 kHz



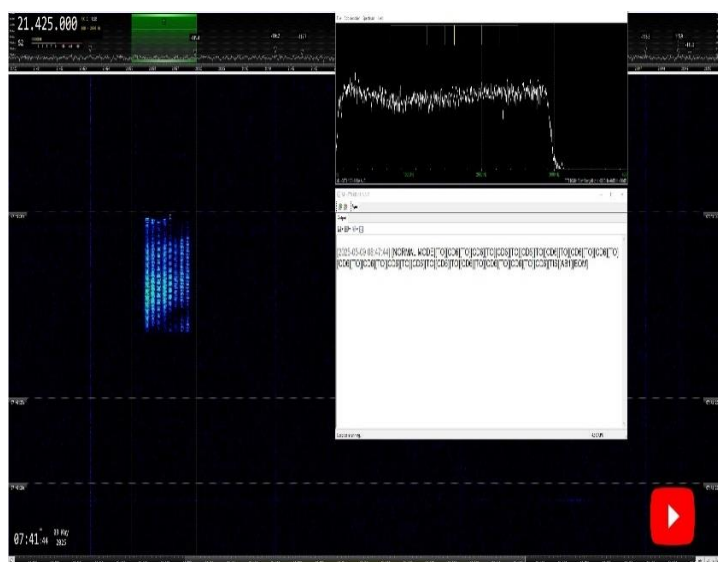
WHARQ. Wideband HF Hybrid Automatic Repeat Request (ARQ). L3Harris proprietary mode. Burst system. Several BW up to 24 kHz. Several modulation types. Intelligent frequency hopping



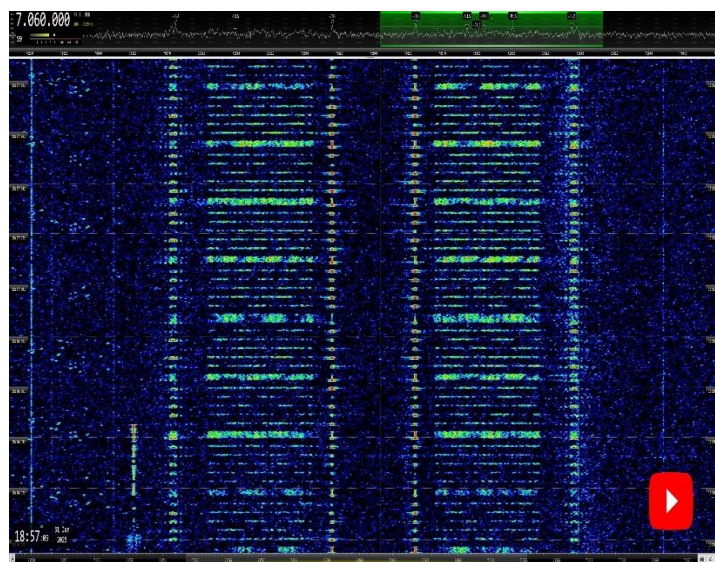
CIS-12. J7D. BW = 2.7 kHz. 12 X 120 Bd



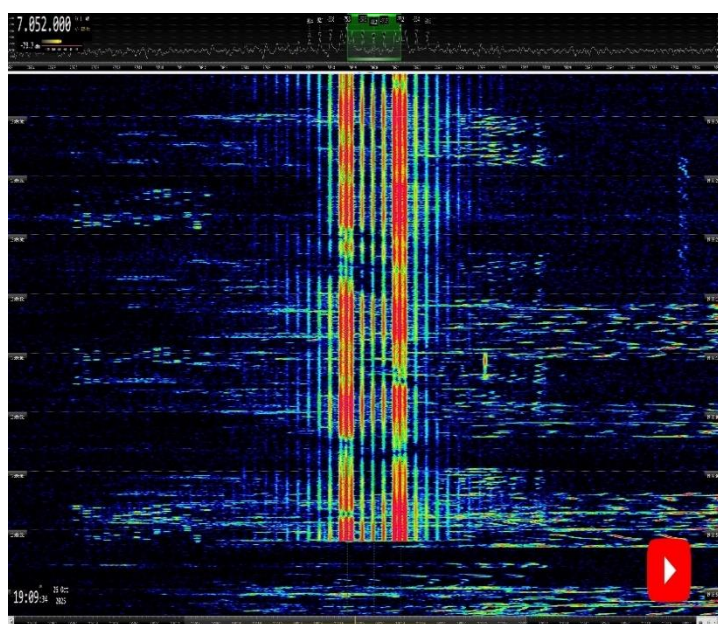
ISR Navy hybrid modem. BW ca 2.8 kHz



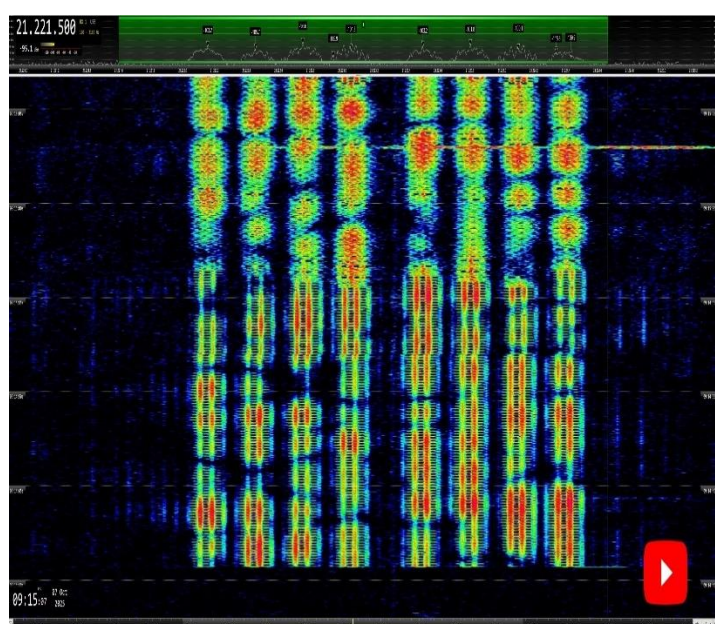
MIL-188-141A ALE 2G. MFSK. BW = 2.8 kHz. 125 Bd



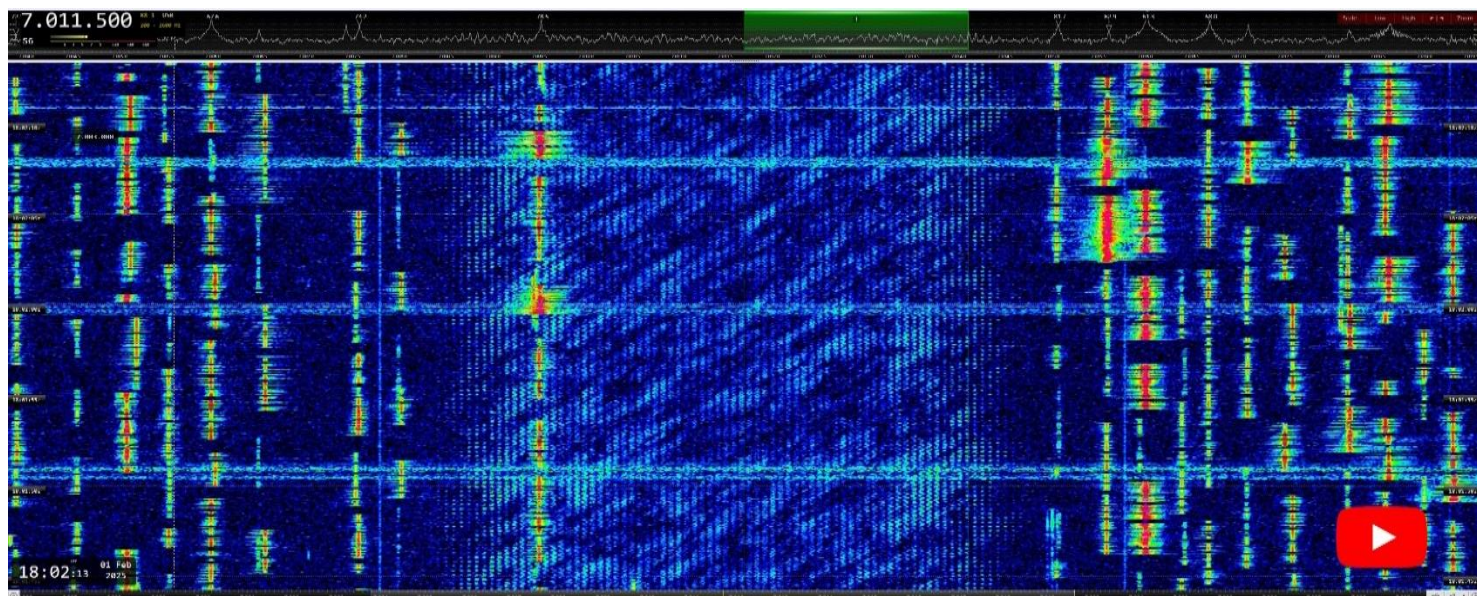
LINK-11 CLEW DSB. Bw = 6 kHz. 75 Bd



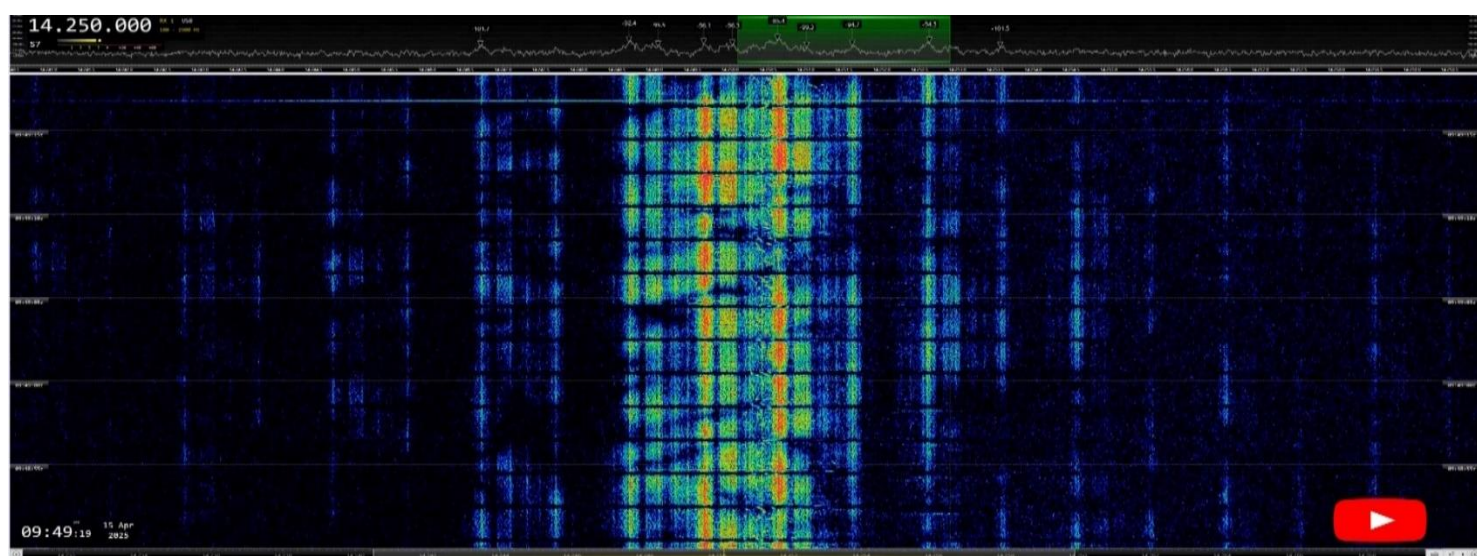
CIS-FSK. F1B. Shift = 250 Hz. 75 bd



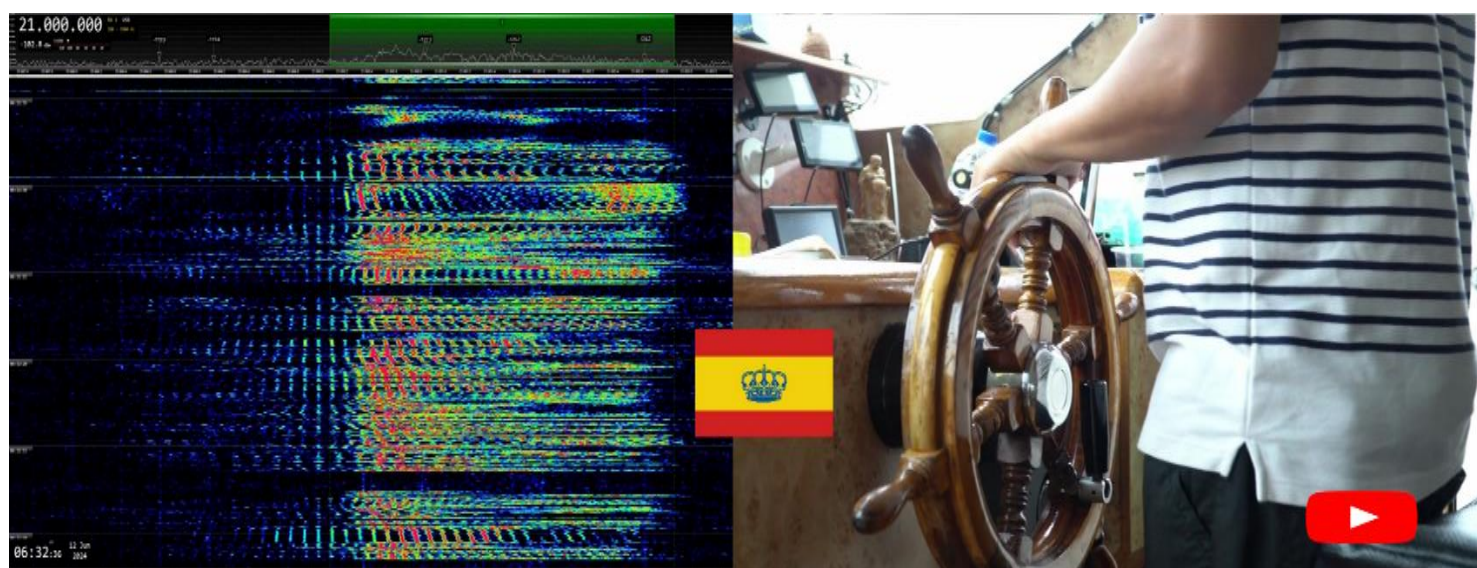
CHN 4+4. BW = 2.4 kHz. 75 Bd



40m: XXX. Jammer. BW ca 6 kHz. 85 Hz



20m: Jammer. BW ca 3 kHz



21000 kHz USB. Spanish fishers

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) | **FCW** = 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
7014.0	18:28	22	01	RUS		J7D	120	2K60E	CIS-12 , 3 Reports
7030.0	20:01	08	01	RUS		F1B	75	300H	CIS-75-250
7041.0	16:43 vt*	18 vd*	01	RUS		F1B	20	7K0E	Unknown FSK Signal 7 kHz spacing , 2 times on Air, long lasting, East of Black, West of Kaspian Sea , * daily since mid January , 5 times reported, varying frequency around 7050 for lowest of 4 frequencies
7055.0	08:28 vt*	14 vd*	01			J3E-L		2K70E	Radiowar, Music : UKR vs RUS, * daily
7058.0	21:12 vt*	07 vd*	01	CHN		RADAR	42	10K0E	OTHR Bursts (42/50/66.7 sps), * also on 7081, 7113, 7182 , 12 reports
7084.0	16:41	18	01	RUS		RADAR	40	12K0E	OTHR Contayner
7098.0	12:25	16	01	RUS		F1B	75	250H	Beeing QRMed with voice loop and constant CW beeps on lower Carrier
7138.0	16:30	04	01	RUS		RADAR	41	12K0E	59+15 dB / -54 dBm 41 sps measured!
7142.0	18:34	09	01	RUS		RADAR	40	12K0E	Container
7150.0	17:53	27	01	RUS		RADAR	40	12K0E	OTHR Contayner, by de2trf
7200.0	14:19	02	01	KRE	RBS	A3E		10K0	Relay Broadcast via Tansui (Taiwan) on TU /FRI 1400 - 1428 UT, RBS Voice of Korean Revival
7205.0	20:35	08	01	ROU		A3E		10K0E	Broad sideband splatter deep into 40m Band
14020.0	13:32	27	01			XXX		CA50K0E	Wide noise, 40sps but no clear sweeps, very variable signal
14116.0	12:49 vt*	26 vd*	01			J3E-U		2K70E	Radiowar, NON Ham Voice : UKR vs RUS, often , 3 reports, also 14127 , 14130
14192.0	09:27	14	01			N0N			no FSk , just strong carrier, daily (turns into FSK)
14192.0	13:38	27	01	RUS		F1B	50	200H	Daily
14316.0	09:25	14	01	CHN		RADAR	50	10K0E	OTHR Bursts
14335.0	12:18	19	01	G		W7D	25	20K0E	OTHR Cyprus UK SBA (25hz mode), faint, QSB
14385.0	14:11	18	01	G		RADAR	50	20K0E	OTHR Cyprus UK SBA
21033.0	10:53 vt	08 vd	01	RUS		RADAR	40	12K0E	OTHR Contayner, 7 reports
21384.0	10:50	12	01	G		RADAR	25	20K0E	OTHR Cyprus UK SBA (25hz mode)
21414.0	10:26	01	01	G		RADAR	50	20K0E	OTHR Cyprus UK SBA , 2 reports
28049.0	12:12	05	01	G		RADAR	25	20K0E	OTHR Cyprus UK SBA (25hz mode), 3

DARC. Harald, DL9NDW and team: DF5JL, DE2TRF

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
	vt	vd							reports
28968.0	10:19	31	01			RADAR	12.5	40K0E	Broad radar, 40 kHz , 15.5 SPS
29240.0	10:17	31	01	G		RADAR	25	20K0E	OTHR Cyprus UK SBA (25hz mode)
29250.0	15:09	31	01	IRN		RADAR		46K0E	Iranian radar - 150 or 313 sps hopping after each burst
29500.0	09:05	08	01			XXX		CA200KE	Blocks of Noise, looks like radar bursts with new mode, 50hz detectable in Noise

IRTS. Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3613	2030	16	01	UKR/ RUS		LSB			Ukrainian-Russian radio war. Very strong signals, persistent.
7000	1400	14	01	INS		LSB			Village radio. Several male voices. Medium signals. Also heard on the 18th at 1645z.
7000	1600	20	01	I		LSB			Male voices in Italian. Medium signals.
7005	1440	14	01	INS		LSB			Village radio. Male voices. Medium signals.
7050	1625	19	01			RADAR			Radar from 7050 to 7125 kHz. Weak in the background.
7055	1450	14	01	UKR/ RUS		LSB			Ukrainian-Russian radio war. Very strong and persistent signals.
7059	0700	12	01	UKR/ RUS		LSB			Russian-Ukrainian radio war. Strong and persistent.
7080	1605	18	01			RADAR			Radar from 7080 to 7100 kHz. Huge and persistent. Still on at 1645z.
7080	0430	24	01	MRC or MM		USB			North African fishermen chatting. Strong signal.
7085	0900	20	01						Swishing sound from 7085 to 7120 kHz. Appearing periodically every second. Medium signal.
7097.5	0710	12	01			F1B			Strong and persistent signal.
7099	1450	05	01			F1B			Medium but persistent signal.
7105	1715	23	01			RADAR			Radar from 7105 to 7120 kHz. Medium signal.
7130	1745	04	01			RADAR			Radar from 7130 to 7150 kHz. Strong and persistent. Still on at 1900z.
7130	1950	09	01			RADAR			Radar from 7130 to 7155 kHz. Very strong and persistent. Still on at 2250z.
7145	1655	27	01			RADAR			Radar from 7145 to 7160 kHz. Strong and persistent.
7194	0905	20	01			F1B			Strong and persistent signal.
10140	2100	16	01			RADAR			Radar from 10140 to 10155 kHz. Weak signal in the background. Persistent.
14000	1450	26	01	E or MM		USB			Spanish fishermen. Low to medium signals.
14130	1445	23	01	RUS/ UKR		USB			Russian-Ukrainian radio war with the usual mix of propaganda music and shouting of obscenities. Strong and persistent
14134	1430	25	01	RUS/ UKR		USB			Russian-Ukrainian radio war. Strong and persistent.
14191	1430	01	01	RUS		F1B			Russian navy, Kaliningrad. Daily all day long with a medium to strong signal.

IRTS. Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14290	1015	22	01			RADAR			Radar from 14290 to 14315 kHz. Medium to weak signal
14297	1330	26	01			FSK			North Korean embassy traffic. Medium to strong signal. Persistent.
18162	1405	23	01	UK		RADAR			Radar from 18162 to 18178 khz. Medium signal. Persistent. Probably UK base on the island of Cyprus.
21373	1055	12	01			RADAR			Radar from 21373 to 21393 kHz. Huge and persistent.
21410	1310	26	01			RADAR			Radar from 21410 to 21430 kHz. Huge and persistent signal.
21438	1245	12	01	UKR		CW			Russian navy base in Sevastopol. Weak to medium signal. Heard very often during the month.
24933	0910	12	01			RADAR			Radar from 24933 to 24953 kHz. Very strong.
24943	1050	12	01			RADAR			Radar from 24943 to 24963 kHz. Very strong signal.
28000	1230	29	01			RADAR			Radar from 28000 to 28025 kHz. Medium but persistent signal.
29100	1000	04	01			FM			Carrier. Huge and persistent signal. Heard often during the month, mainly between 1000 and 1500z.
29605	1230	28	01			RADAR			Radar from 29605 to 29625 kHz. Medium signal. Persistent.
29648	1205	08	01			RADAR			Radar from 29648 to 29668 kHz. Medium but persistent signal.

PZK. Mirek, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7012.0	1400	19	01			F1B		250	S9
7060.0	1400	19	01			LSB		3K0	S9 "radio" in Russian
7118.0	1510	13	01			RADAR		16K0E	S9
7197.0	1630	29	01			RADAR		12K0E	
14109.0	1010	27	01			F1B		200	S9 similar to rtty, sending 1 sec. packets
14174.0	1355	06	01			RADAR		12K0E	S9
14244.0	1350	19	01			UI		2K0E	S9
14260.0	1130	14	01			RADAR		20K0E	S7
18142.0	1520	28	01			UI		2K5E	S9
21000.0	1525	20	01			USB		2K7	S7 like non-amateur traffic in Spanish
21033.0	1050	08	01			RADAR		12K0E	S9
21056.0	1030	02	01			RADAR		20K0E	S9
21109.0	1345	19	01			RADAR		20K0E	S8
21129.0	1200	26	01			RADAR		12K0E	S9
21158.0	1030	22	01			RADAR		14K0E	S7
21158.0	1235	31	01			RADAR		12K0E	S9
21164.0	1230	30	01			RADAR		12K0E	S9
21166.0	1236	31	01			RADAR		24K0E	S9
21171.0	1005	26	01			RADAR		12K0E	S9

PZK. Mirek, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21180.0	1410	27	01			RADAR		20K0E	S9
21207.0	1020	27	01			RADAR		12K0E	S9 also at 21157.0
21309.0	1035	26	01			RADAR		20K0E	S7
21313.0	1255	14	01			RADAR		20K0E	S9 also at 21052.0
21339.0	0955	25	01			RADAR		10K0E	3 sec. bursts
21344.0	1235	03	01			RADAR		12K0E	S9+30 also at 21203.0
21377.0	1000	29	01			RADAR		10K0E	3 sec. bursts and at 21239.0, 21175.0
21384.0	1055	12	01			RADAR		20K0E	S7
21407.0	1430	05	01			RADAR		20K0E	S9
21410.0	1310	06	01			RADAR		16K0E	S7
21421.0	1100	05	01			RADAR		12K0E	S9+15
24943.0	1005	26	01			RADAR		10K0E	3 sec. bursts
24958.0	1050	12	01			RADAR		20K0E	S7
28012.0	1150	29	01			RADAR		20K0E	
28050.0	1205	05	01			RADAR		20K0E	S9
28140.0	1020	30	01			RADAR		20K0E	S9+
28243.0	1040	20	01			RADAR		20K0E	
28258.0	1120	29	01			RADAR		20K0E	
28556.0	1345	03	01			RADAR		20K0E	S9
29022.0	1145	29	01			RADAR		40K0E	
29089.0	1125	09	01			RADAR		20K0E	S6
29587.0	1235	25	01			RADAR		20K0E	s7
29674.0	1100	07	01			RADAR		20K0E	S6

REP. Paulo, CT2IWW

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7014.0	20:17	22	01	RUS		J7D	120	2K60E	CIS-12
7032.0	17:15	16	01	RUS		RADAR	40	12K0E	OTHR Contayner
7066.5	18:35	29	01			F1B	20	7K0E	CF 7066.5, 20bd FSK, purpose unkown, shifting around
7100.0	19:45	17	01			G7D	75	2K40E	7100 kHz USB. LINK-11 CLEW SSB.
7103.0	18:53	15	01			J3E-U			Arabic SSB net, apparent fishery, in USB
14000.0	14:28	22	01			MIL-188-141CALE3 G	2400	CA3K0E	14000 kHz USB. ALE 3G bursts
14018.3	14:52	19	01			G1D	2400	CA3K0E	
14030.0	10:17	16	01	CHN		RADAR	42	10K0E	OTHR bursts
14050.0	14:36	19	01	G		RADAR	50	20K0E	OTHR Cyprus SBA
14101.0	17:03	15	01			J3E-U			Arabic SSB fishery net, non amateur ops disturbing ham digi comms
14120.0	11:00	29	01			J3E-U			apparent UKR / RUS war of words, looping phrases
14126.0	15:28	29	01			J3E-U			Religious speech, Russian language
14131.3	11:12	29	01	MRC		J3E-U			Morocco fishery, vt vd
14135.0	13:07	19	01			J3E-U			Russian language religious speech, USB mode, long lasting

REP. Paulo, CT2IWW

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14138.0	14:38	19	01			J3E-U		3K0E	Broadcast style religious speech in Russian, followed by music
14140.0	13:46	28	01	RUS		J3E-U		3K0E	Religious broadcast with music followed by religious speech in Russian and English
14141.3	19:59	21	01	MRC		J3E-U			Moroccan arabic language fushery ops, vt vd
14148.5	13:12	19	01			F1D	600	600H	DPRK-FSK 600 ARQ
14151.6	14:06	21	01			J3E-U			unid Arabic language net, apparent fishery, engine noises
14161.1	15:50	21	01			J3E-U			unid arabic language net, engine noises
14168.0	20:02	21	01			XXX		6K0E	Unid 8 channel / multi tone mode, 6kHz wide, 14168.0 kHz CF
14192.0	10:53	29	01	RUS		F1B	50	200H	
14332.0	10:07	28	01	CHN		RADAR	50	10K0E	OTHR bursts
21106.0	13:19	11	01	RUS		RADAR	40	12K0E	OTHR Contayner
21125.0	13:34	14	01	G		RADAR	50	20K0E	OTHR Cyprus UK SBA
21145.0	11:12	16	01	MRC	E51	J7D	125	1K80E	21145 kHz USB. MIL-188-141A ALE 2G
21145.0	11:40	28	01	MRC	E74	J7D	125	1K80E	USB MilALE
21212.0	11:05	16	01			J3E-U			Arabic language fishery net USB discussing fish freezing operations
21224.0	10:21	27	01	RUS		RADAR	40	12K0E	OTHR contayner, short bursts
21405.0	10:49	27	01			J3E-U			unid language ops, not ham radio related
24945.0	08:20	12	01	G		RADAR	25	20K0E	OTHR Cyprus UK SBA
28025.0	16:43	08	01			F1B	51.9	300H	Enagal GPS buoy
28030.0	16:42	08	01			F1B	51.9	300H	Enagal GPS buoy
28050.0	16:46	08	01			F1B	51.9	300H	Enagal GPS buoy
28115.0	15:41	23	01			F1B	51	300H	Enagal GPS buoy
28125.0	10:29	22	01	B		A3E			Brazilian CB outbanders disturbing WSPR amateur comms
28135.0	10:25	22	01	B		A3E			Brazilian CB outbanders, transport talk, vt vd
28255.0	10:30	22	01	B		A3E			Brazilian CB outbanders disturbing amateur radio beacons
28305.0	13:45	14	01	B		A3E			Brazilian truckers disturbing amateur SSB communications
28540.0	10:21	09	01	G		RADAR	25	20K0E	OTHR Cyprus UK SBA
28596.0	09:59	05	01	G		RADAR	50	20K0E	OTHR Cyprus UK SBA
29089.0	11:15	09	01	G		RADAR	25	20K0E	OTHR Cyprus UK SBA
29100.0	10:24	05	01			J3E-L			LSB Russian language net, counting from 1 to 10, vt vd
29495.0	11:12	04	01			F1B	81.9	140H	Datawell GPS bouys
29588.0	11:01	25	01	G		RADAR	25	10K0E	OTHR Cyprus SBA UK

SRAL. Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7 MHz	1515-0615/	*	1	RUS		RADAR	40 sps	13k0E	*) Days: 4. 9. 13. 16. 18. 21. 23. 25. 26. 27. 29. (WebSDR 24d)
7 MHz	1230-1400	*	1	CHN		RADAR	50/67 sps	10k0E	*) Days: 13. 15. 23.

SRAL. Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7008.0	0445-1500	*	1	RUS		F1B		250H	*) Days: 7. 20. 21. 22.
7010.0	0815-0930/	12 29	1	RUS		J7D	120	2k60E	
7012.0	1300-1430	19	1	RUS		F1B		250H	
7014.0	0545-1900	19-30	1	RUS		J7D	120	2k60E	
7030.0	0600-1930	*	1	RUS		F1B		250H	*) Days: 8. 9. 15. 27.
7035.1	0530-1800	01-31	1	RUS		J3E-I		3k60E	1 sec. ticking 240 Hz tone and hum
7045.0	1405-1655/	08 13	1	RUS		F1B	20	7k0	Alternate fq 7046.5 kHz
7045.0	0000-2400	13 - 31	1	RUS		F1B	20	7k0	Alternate fq 7046.5 kHz
7051.8	0620-1345	*	1	RUS		A1A	11wpm	40H	*) Days: 17. 18. 19. 21. 5BL
7065.0	1405-1655/	08 13	1	RUS		F1B	20	7k0	Alternate fq 7066.5 kHz.
7065.0	0000-2400	13 - 31	1	RUS		F1B	20	7k0	Alternate fq 7066.5 kHz
7066.0	0545-1800	*	1	RUS	RIT3	F1A/ N0N		200H	*) Days: 1. - 9. 11.
7089.0	0800-1030	*	1	RUS		J7D	120	2k60E	*) Days: 12. 13. 28.
7098.0	0545-1915	*	1	RUS		F1B		250H	*) Days: 3. 5. 6. 11. 12. 15. 16. 17. 24. - 29. 31.
7134.02	1300-1830	29 30	1	RUS		F1B		160H	
7193.0	0615-1500	*	1	RUS	RDL	F1A/B/ NON		200H	*) Days: 1. 3. 4. 6. 8. 10. 11. 13. - 17. 19. 20. 27. 29.
7200.0	1345-1430/	*	1	TWN	National Unity R	A3E		9k0	*) Days: 2. 7. 9. 12. 14. 16. 19. 23. 26. 28. 30. Korean px
10 MHz	0345-0615	11 28	1	G		RADAR	50/25 sps	20k0	(WebSDR 6d)
10 MHz	0545-0645	17	1	RUS		RADAR	40sps	13k0E	(WebSDR 7d)
14 MHz	0600-1600	*	1	RUS		RADAR	40sps	13k0E	*) Days: 1. 2. 6. 9. 14. 26. 31. (WebSDR 11d)
14 MHz	0830-1230	*	1	CHN		RADAR	50/67sp s	10k0E	*) Days: 1. 4. 6. 7. 8. 10. 13. 14. 15. - 22. 27. 28. 30. 'foghorn'
14192.0	0545-1700	01 - 31	1	RUS		F1B		200H	
14200.0	0640-0900	29	1	RUS		F1B		250H	
14221.0	0530-0600/	*	1	KAZ		F1B		200H	*) Days: 1. 3. 4. 6. 7. 9. 10. 12. 15. 16. 17. 20. 27. 23. 29. 30.
14292.0	1120	22	1	RUS	TWE3	A1A	16wpm	40H	
14308.0	0800-0850/	04	1	RUS		F1B		500H	
18 MHz	0545-1300	*	1	G		RADAR	50 sps	20k0	*) Days: 10. 12. 23. 24. 27. (WebSDR 6d)
18 MHz	0645-1300	*	1	RUS		RADAR	40 sps	13k0E	*) Days: 2. 7. 14. 15. 20. 25. 27. 30. (WebSDR 7d)

SRAL. Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21 MHz	0545-1430	*	1	G		RADAR	50/25 sps	20k0	*) Days: 1. 2. 6. 7. 10. 12. 14. 15. 19. 22. 26. 27. 28. 29. (WebSDR 22d)
21 MHz	0745-1500	*	1	RUS		RADAR	40 sps	13k0E	*) Days: 3. 5. 6. 8. 9. 11. 14. 22. 24. 26. 27. 28. 30. 31. (WebSDR 19d)
21 MHz	0700-1200	*	1	CHN		RADAR	50/67sp s	10k0E	*) Days: 1. - 12. 19. 26. 28. 29. 31. 'foghorn'
21 MHz		01	1	CHN		RADAR	50sps	10k0E	(WebSDR 11d)
21438.0	/0830-1430	01 - 31	1	RUS	RCV	A1A	18 - 24 wpm	40H	
24 MHz	0830-1115	*	1	G		RADAR	50/25sp s	20k0	*) Days: 12. 21. (WebSDR 8d)
24 MHz	0750	01	1	RUS		RADAR	40sps	13k0E	(WebSDR 3d)
28 MHz	0615-1400	*	1	G		RADAR	50/25/12.5sps	20k0/40k0	*) Days: 1. 2. 4. 6. 8. 9. 11. 15. 17. 19. 20. 23. - 25. 28. - 31. (WebSDR 25d)
28 MHz			1	IRN		RADAR	150/313	60k0E	No reports

VERON. Ruud, PG1R. Credits to observers Dick PA0GRU, Rene PA3EQO

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6999.0	1554	02	01	RUS		J3E-L			Russian male voices; splattering in 40m band
7000.0	1610	20	01	I		J3E-L			Italian male voices; no calls
7014.0	1552	27	01	RUS		J7D		2K40E	CF; CIS-12 PSK
7045.0	1833	14	01			F1B		7K0E	CF; purpose unknown
7045.0	1545	21	01			F1B		7K0E	CF; purpose unknown
7050.0	vt	vd	01	UKR		J3E-L			Ukrain-Russia radiowar; music, propaganda, etc.
7055.0	vt	vd	01	UKR		J3E-L			Ukrain-Russia radiowar; music, propaganda, etc.
7055.0	1537	21	01	UKR		J3E-L		3K0E	UKR-RUS radiowar; popmusic; S9+; 2 nd TX same freq with comments; male voice
7065.0	1835	14	01			F1B		7K0E	CF; purpose unknown
7066.5	1544	21	01					7K0E	CF; after about 10 minutes CF shifted to 7065.0 kHz
7068.5	1533	11	01			XXX		2K80E	CF; probably MIL-STD-188-110?
7090.0	1839	14	01			G7D		2K50E	CF; LINK-11 CLEW SSB PSK
7120.0	1605	25	01	RUS		RADAR	40	12K0E	CF; OTHR Kontayner
7172.0	1533	21	01	RUS		RADAR	40	12K0E	CF; OTHR Kontayner
7192.0	1606	25	01	RUS		RADAR	40	12K0E	CF; OTHR Kontayner
7194.5	1543	17	01			XXX		1K20E	CF; PSK; Bursts; probably STANAG4529
7198.0	2105	07	01			XXX		6K0E	Longlasting noise; S6-7; jammer?
14192.0	1050	10	01	RUS		F1B		250H	Printer
14192.0	1514	11	01	RUS		F1B		250H	Printer; S9+
14192.0	1741	12	01	RUS		F1B		250H	Printer; S5
14192.0	1500	19	01			NON			Carrier
14192.0	1040	22	01			NON			Carrier

Contact: Gaspar, EA6AMM. IARU IWS coordinator: iarums@iaru-r1.org

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

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