

IARU Monitoring System Region 1



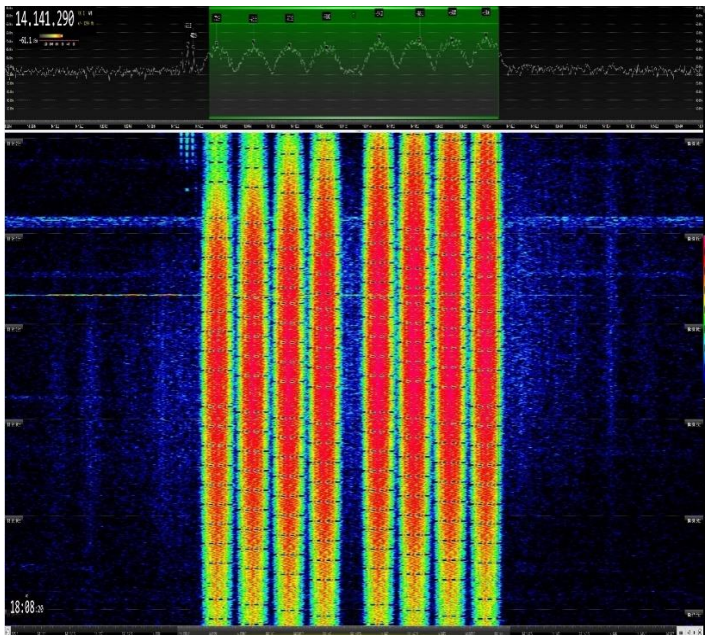
Monthly Newsletter - June 2023

News and info

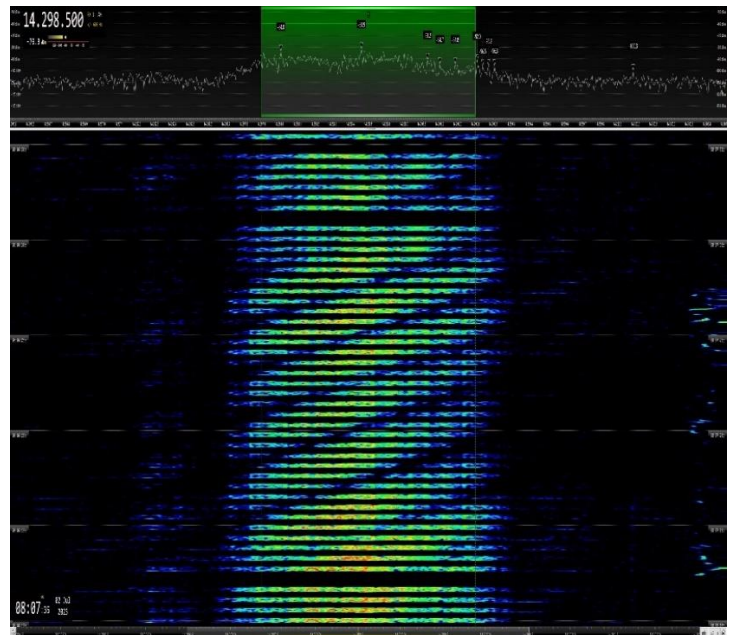
As in May, we received almost daily transmissions using the DPRK-FSK 600 ARQ mode (F1D; SH = 600 Hz. 600 Bd), created by the Democratic People's Republic of Korea. Also, although less frequently, we receive quite a few transmissions of the PSK variant of this mode, DPRK-PSK 1200 ARQ (G1D; BW = 1K20E. 600 or 1200 Bd).

In addition to the sadly usual transmissions in CIS-## FSK modes (on some frequencies, in the 20 m band, they were received daily), and other well-known modes such as CIS-12 (J7D; BW = 2K70E. 12 x 120 Bd + pilot line at 3300 Hz), this month we received a long-lasting STANAG-4285 transmission (G1D. BW = 2K40E. 2400 Bd) for several days on 14001.8 kHz CF.

We also often received several transmissions sent on Chinese MIL modes on the 40, 20 and 15m bands, such as CHN 16 (PSK. BW = 2K20E. 16 X 75 Bd), CHN-30 (PSK. 30 tones 60Bd + pilot line at 425 Hz), PRC 4+4 (PSK. BW = 1K40E. 8 x 75 Bd), and Chinese MIL-188-141A ALE 2 G variant (MFSK. BW = 1K70E. 8 x 75 Bd) and on one occasion a CHN OFDM 39 (BW = 2K40E. 39 tones. 44.44 Bd each; with pilot tone on 400 Hz). We also could receive several RUS TDL (Tactical Data Link) transmissions on the 40 m band (7051.7 kHz CF) and, by the end of the month, several transmissions on an unknown mode (BW ca 10K0E) on 21151.5 kHz CF, most probably being used as a jammer.



CHN 4+4. PSK. BW = 1K40E. 8 x 75 Bd. Traffic

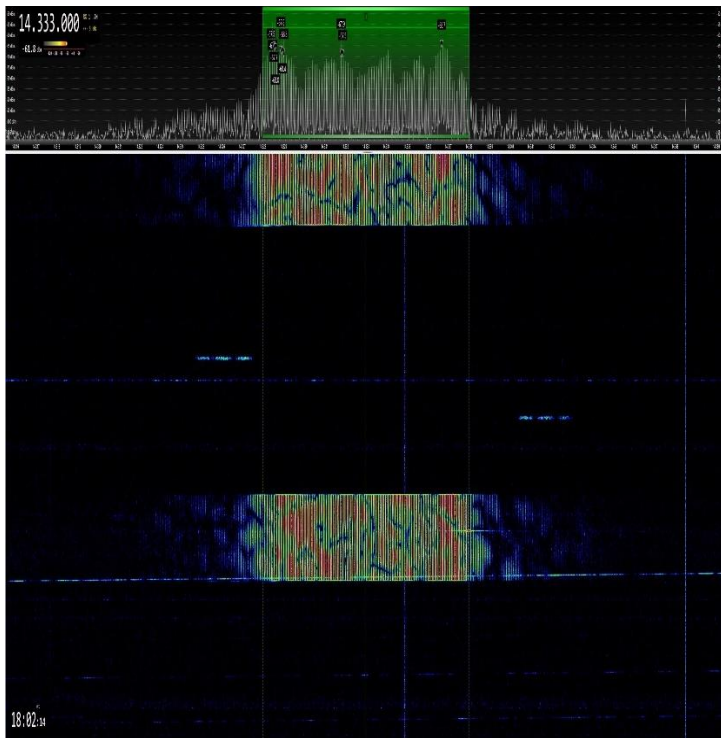


DPRK-PSK 1200 ARQ. PSK. BW = 1K20E. 600 or 1200 Bd

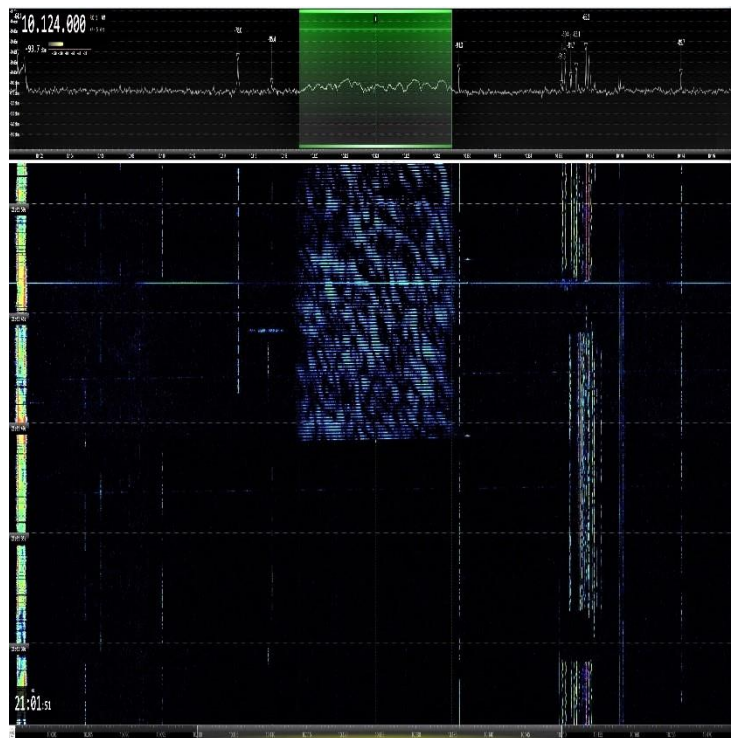
As in the past month, RUS MIL A1A (CW) transmissions on A1A sending encrypted QTC (groups of 5 characters; letters and numbers) and performing split traffic with stations outside this band took place almost daily, in UTC morning hours, on 14108 kHz.

RADAR’s activity was, unfortunately, about the same as on the last months’: countless reports about them in all bands from 40 to 10m. The most disturbing, because of their large bandwidth as well as for the huge power used in their transmissions, which are, most of the times, long-lasting, were the ones sent by the RUS Over the Horizon (OTH) radar Contayner (BW = 20K0E. 40 sps. Heard on 40, 30, 02 17 15 and 12m; sometimes with several simultaneous transmissions on the same band) followed by the ones by the British OTHR located at the UK Sovereign Base Area in Cyprus sent (BW = 20K0E. 50 or 25 sps. Observed on 17, 15 and 10m), followed by the Iranian OTHR on 28860 kHz CF (BW ca 45K0E. alternating 150 and 313 sps, but also received on other frequencies on the 10 m band, using the same sps rate or alternating 307 and 870 sps bursts).

Also disturbing the HF amateur radio bands, other OTH radars transmit short burst as several CHN OTH (BW = 10 K0E. Most usually heard sending 50 or 66.7 sps bursts, and seldom 41.7 or 83.3 sps bursts. During May we also received several times the AUS OTHR JORN on the 30 m band (BW = 10K0E. 7 sps. With short intro tone).



CHN OTHR. Short bursts. BW = 10K0E. 50, 66.7, 41.7 or 83.3 sps



OTHR JORN. AUS. BW = 10K0E. 7 sps. With short intro tone

Every Tuesday we could hear the splatter from 21455 kHz to 21450 kHz from 1000 to 1100 UTC caused by the broadcasting station “Radio Free Asia” transmitting from Tinian Island on 21455 kHz CF (A3E; AM. BW = 10K0E), disturbed by a CHN 20 kHz wide jammer.

“Village-radio” J3E (SSB) communications from Region 3 were heard on several bands (40, 14 and 15 m) as well as pirates on 15 m and CBers on the 10 m band. Also, the annoying Spanish fishers – always the same for years - were heard transmitting on 21000 kHz USB (J3E-U) as usual, very often.

On the 10 m band we could also receive illegal fishing buoys transmitting a CW (A1A) 2 or 3 letter code to help the fishers radiolocating their nets, and others using short F1B (FSK) bursts (SH ca 300 Hz) sending their ID and position encrypted.

Find more screenshots showing intruder transmissions received during June 2023 at the end of the Newsletter.

Detailed reports of national coordinators

Abbreviations used (as per IARUMS definitions)

aka = also known as | **BC** = Broadcast | **BD** = Baud, (or also Burst duration) | **BRI** = Burst repetition interval | **BW** = Bandwidth | **ca** = approximate | **CHN** = **PRC** = People’s Republic of China | **CF** = Center frequency | **DF** = Direction finding (radio location; see also TDoA) | **FMCW** = frequency modulated continuous wave | **FMOP** = frequency modulated on pulse | **OTHR** = over the horizon radar | **Radar** = if exact mode unknown | **SH** = Shift (Hz) | **sps** = sweeps per second | **TDoA** = Time difference of arrival | **ui** = unidentified.

DARC; Daniel, DL3RTL. Credit to monitors: DL2SCH, Jürgen; DL8LAQ, Norbert; DB4UP, Christoph; DE2TRF, Torsten; DL7AWO, Thomas; DK3MN, Martin; DB1TH, Tobias; F4FPR, Benjamin; DB3TA, Alex									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6999,0	1818	16	06	RUS		FMOP	40	12k	OTHR Contayner
7050,0	1800	10	06			J3E-L		3k	RUS/UKR radio war
14001,5	vt	vd	06			PSK	2400	2k	STANAG 4285
14068,0	1535	27	06			F1B	75	500	RTTY 500Hz/75Bd
14108,0	0803	28	06			A1A			A1A suspect RUS
14114,0	0436	17	06	RUS		FMOP	40	12k	OTHR Contayner
14125,0	1836	16	06	RUS		FMOP	40	12k	OTHR Contayner
14160,0	0520	13	06			J3E-U		3k	RUS/UKR radio war
14169,0	0724	28	06			F1B	50	200	RTTY 200Hz/50Bd
14173,0	1545	28	06	RUS		FMOP	40	12k	OTHR Contayner
14182,0	1350	26	06	RUS		FMOP	40	12k	OTHR Contayner
14184,0	2030	26	06	RUS		FMOP	40	12k	OTHR Contayner
14187,0	0558	16	06	RUS		FMOP	40	12k	OTHR Contayner
14191,0	1838	27	06	RUS		FMOP	40	12k	OTHR Contayner
14253,0	0717	14	06	RUS		FMOP	40	12k	OTHR Contayner
14255,0	1025	28	06	RUS		FMOP	40	12k	OTHR Contayner
14310,0	1648	01	06	G		FMCW	50	20k	OTHR Pluto Cyprus
14319,0	1700	02	06					3k	unid
18115,0	1850	11	06	RUS		FMOP	40	12k	OTHR Contayner
21000,0	vt	vd	06			J3E-U		3k	spanish speaking fisher in intercom
21000,0	1032	07	06	G		FMCW	50	20k	OTHR Pluto Cyprus with transmission for app. 10sek. Only
21105,0	0525	12	06	G		FMCW	50	20k	OTHR Pluto Cyprus
21151,0	1715	26	06			J3E-U		3k	intercom in afrikan language without callsigns suspect pirates/fisher because machinesound in backgroundnoise
21151,0	1149	29	06					8k	unid
21158,0	1800	10	06	RUS		FMOP	40	12k	OTHR Contayner
21170,0	0428	15	06	G		FMCW	25	20k	OTHR Pluto Cyprus
21170,0	0440	15	06	G		FMCW	50	20k	OTHR Pluto Cyprus
21180,0	1652	10	06	RUS		FMOP	40	12k	OTHR Contayner
21181,0	1040	18	06	RUS		FMOP	40	12k	OTHR Contayner
21185,0	0616	13	06	G		FMCW	50	20k	OTHR Pluto Cyprus
21190,0	0527	08	06	G		FMCW	50	20k	OTHR Pluto Cyprus
21310,0	0602	08	06	G		FMCW	50	20k	OTHR Pluto Cyprus

DARC; Daniel, DL3RTL. Credit to monitors: DL2SCH, Jürgen; DL8LAQ, Norbert; DB4UP, Christoph; DE2TRF, Torsten; DL7AWO, Thomas; DK3MN, Martin; DB1TH, Tobias; F4FPR, Benjamin; DB3TA, Alex

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21370,0	1648	01	06	G		FMCW	50	20k	OTHR Pluto Cyprus
21375,0	1105	18	06	G		FMCW	50	20k	OTHR Pluto Cyprus
21435,0	1104	08	06	G		FMCW	50	20k	OTHR Pluto Cyprus
21438,0	vt	vd	06	RUS		A1A			RUS NAVY Sevastopol
28021,3	1606	17	06		fl	A1A			Buoy
28036,5	1604	17	06		fv	A1A			Buoy
28134,8	1730	14	06		ee	A1A			Buoy
28139,6	0847	10	06			A1N			Buoy with no readable Ident
28166,0	0840	15	06		bl	A1A			Buoy
28171,5	1100	17	06		su	A1A			Buoy
28181,6	1540	17	06		fu	A1A			Buoy
28200,0	1000	10	06			J3E-U		3k	intercom in italian language without callsigns - suspect pirates
28215,0	0953	13	06			A3E		6k	intercom in spanish or portuguese language without callsigns, suspect pirates
28226,5	1725	14	06		cr	A1A			Buoy
28239,8	0853	16	06		fa	A1A			Buoy
28241,3	1528	17	06		ft	A1A			Buoy
28266,6	0958	17	06		ae	A1A			Buoy
28304,8	1750	14	06		ci	A1A			Buoy
28311,5	1532	17	06		df	A1A			Buoy
28391,8	1706	17	06		cl	A1A			Buoy
28399,7	1057	17	06		eh	A1A			Buoy
28421,4	1535	17	06		fd	A1A			Buoy
28860,0	0732	15	06	IRN		AMOP	150 / 313	46k	OTHR Ghadir
28144.9	1120	13	06		ee	A1A			Buoy

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7051	1930	29	6	UKR/ RUS		LSB			Russian-Ukrainian radio war. Very strong and persistent signals.
7055	2220	21	6			Radar			Radar from 7055 to 7075 kHz.Strong and persistent.
7055	1845	13	6			LSB			Russian-Ukrainian radio war. Strong and persistent signals-daily.
7060	2140	8	6	UKR/ RUS		LSB			Russian-Ukrainian radio war.Very strong signals.
7065	2315	24	6			RADAR			Radar from 7065 to 7110 kHz. Very strong and persistent.
7085	1650	25	6	UKR/ RUS		LSB			Russian-Ukrainian radio war with a rebroadcasting of a radio programme. Strong and persistent.
7088.5	500	29	6			F1B			Very strong and persistent signals.
14000	1415	24	6	CHN		AM			China Radio International. Harmonic generated by transmissions on other frequencies. Weak but persistent signal.
14105	1200	28	6			RADAR			Radar from 14105 to 14125 kHz. Weak but persistent.

IRTS; Michael, EI3GYB									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14131	725	29	6			RADAR			Radar from 14131 to 14143 kHz. Strong and persistent.
14138	1110	24	6			RADAR			Radar from 14138 to 14175 kHz. Massive and persistent signals.
14140	1630	25	6			RADAR			Radar from 14140 to 14195 kHz. Huge and persistent.
14155	545	24	6			RADAR			Radar from 14155 to 14168 kHz. Strong and persistent.
14161	1030	29	6			RADAR			Radar from 14161 to 14218 kHz. Medium signals.
14191.5	1650	18	6			F1B			Medium signals, daily all day long.
14220.5	2055	16	6			F1B			Strong and persistent signals.
14238.5	820	12	6			F1B			Medium and persistent signals.
14251	825	12	6			RADAR			Radar from 14251 to 14281 kHz. Huge and persistent signal.
18068	505	29	6	TWN		AM			Sound of Hope. Taipeh. Very weak signals.
18115	1715	25	6			RADAR			Radar from 18115 to 18158 kHz. Weak but persistently in the background.
18152	850	3	6	G		RADAR			Radar from 18152 to 18200 kHz. Huge and persistent. UK SBA, Cyprus
18156	1935	26	6	G		RADAR			Radar from 18156 to 18198 kHz. Strong and persistent signals. UK SBA, Cyprus
18162	1800	18	6	G		RADAR			Radar from 18162 to 18192 kHz. Strong and persistent. UK SBA, Cyprus
21000	800	19	6	E or MM		USB			Spanish fishermen chatting. Loud signals.
21018	510	29	6	G		RADAR			Radar from 21018 to 21038 kHz. Strong and persistent. UK SBA, Cyprus
21197	1035	13	6	G		RADAR			Radar from 21197 to 21219 kHz. Strong and persistent. UK SBA, Cyprus
21414	900	30	6	G		RADAR			Radar from 21414 to 21427 kHz. Medium signals, persistent. UK SBA, Cyprus
21415	1220	12	6	G		RADAR			Radar from 21415 to 21428 kHz. Huge, persistent. UK SBA, Cyprus
21438	1340	7	6	UKR		CW			Russian navy, Sevastopol. Daily, all day long. Big signals.
24936	750	7	6	G		RADAR			Radar from 24936 to 24960 kHz. Strong and persistent. UK SBA, Cyprus
24985	2130	8	6	B		USB			Brazilian Cbers chatting and singing. Strong signals.
28653	1550	12	6			RADAR			Radar from 28653 to 28675 kHz. Medium signals, persistent.
28835	940	10	6	IRN		RADAR			Radar from 28835 to 28880 kHz. Medium to weak signals. AM mode.

PZK; SP3AMO, SP5GNI									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14001.8	vt	vd	06			UI		2K8E	S9 (CIS?)
14001.8	vt	vd	06			PSK		2K50E	
14008.0	1442	04	06			F1B		250	
14013.0	1910	09	06			UI		3K3	S7
14068.0	1211	27	06			F1B		500	S9++, 13:50 still on

PZK; SP3AMO, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14090.0	0935	20	06			RADAR		20K0E	S9, 11:05 still on
14118.9	0755	02	06			CIS-12		2K7	S9
14143.0	1952	26	06			RADAR		10K0E	Burst
14148.0	2030	09	06			RADAR		10K0E	short 3 sec. bursts
14165.0	1619	25	06			RADAR	40	12K0E	
14177.0	1055	09	06			RADAR		24K0E	S9
14182.0	vt	vd	06			RADAR	40	12K0E	
14185.0	0823	08	06			RADAR		12K0E	S6
14185.0	0708	29	06			RADAR		10K0E	Burst
14193.0	1400	27	06			RADAR		14K0E	S8
14195.0	vt	vd	06			RADAR		12K0E	S5-7
14199.0	0935	20	06			RADAR		12K0E	S6
14200.0	vt	vd	06			RADAR	40	12K0E	S9
14200.0	1130	23	06			RADAR		16K0E	S5
14215.0	1045	09	06			RADAR		20K0E	S9
14230.0	1130	23	06			RADAR		16K0E	S5
14255.0	0940	28	06			RADAR		12K0E	S7
14260.0	0823	08	06			RADAR		12K0E	S7
14261.0	1900	09	06			RADAR		10K0E	short 3 sec. bursts
14274.0	2035	10	06			RADAR		10K0E	short 3 sec. bursts
14294.0	1400	27	06			RADAR		10K0E	short 3 sec. bursts, also at 14262.0, 14339.0
14298.5	1210	27	06			UI		3K0E	S9
18115.0	1953	04	06			RADAR		12K0E	S6
18165.0	1045	09	06			RADAR		20K0E	S9
21200.0	0935	24	06			RADAR		20K	S5
21260.0	0937	23	06			RADAR		8K0E	Burst
21290.0	0925	23	06			RADAR		20K	S5
21312.0	0731	22	06			RADAR	50	10K0E	Bursts
21386.0	2150	27	06			RADAR		10K0E	short 3 sec. bursts
21418.0	1215	28	06	G		RADAR		15K0E	S9
28860.0	vt	vd	06			RADAR	150/300	46K0E	
29500.0	vt	vd	06			RADAR	150/300	46K0E	

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3756.0	1943	01	06			J3E		2K20E	USB 'The Pip'. Daily. Also heard 251949z
7018.0	1744	06	06			J7D		2K70E	USB 7016.0 / CIS-12
7018.9	0700	30	06			N0N			Plain carrier. Probably idling F1B.
7051.7	1947	01	06					1K30E	Unidentified signal. Also heard 061747z, 071750z
7068.0	0724	28	06			J7D		2K70E	USB 7066.0 / CIS-12
7099.0	0703	21	06			F1B	50	250	FSK
7137.0	2019	21	06			F1B		200	FSK
14000.0	2042	25	06			P0N	10.4	5K00E	Pulse radar
14001.8	1941	01	06			G1D		2K40E	PSK-8 / Stanag-4285. Also heard 020642z, 050653z, 060707z

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14068.0	0941	27	06			F1B		500	FSK
14089.0	0722	26	06	RUS		P0N	40	14K0E	Container pulse radar
14098.36	1238	07	06			F1D		1K20E	DPRK FSK bursts. 600 Hz shift. Also heard 190729z, 270735z, 280727z
14128.0	1111	02	06			J7D		2K70E	USB 14126.0 / CIS-12
14153.0	1034	12	06	RUS		P0N	40	14K0E	Container pulse radar
14160.0	0938	27	06	CHN		F3N	66.7	10K0E	FMCW radar bursts
14168.0	1438	26	06	RUS		P0N	40	14K0E	Container pulse radar
14181.0	1443	08	06	RUS		P0N	40	14K0E	Container pulse radar
14182.0	0752	08	06	RUS		P0N	40	14K0E	Container pulse radar
14183.0	0841	02	06	RUS		P0N	40	14K0E	Container pulse radar
14185.0	0938	27	06	CHN		F3N	66.7	10K0E	FMCW radar bursts
14198.5	0843	02	06			G1D		1K20E	DPRK PSK bursts
14198.54	0737	27	06			F1D		1K20E	DPRK FSK bursts. 600 Hz shift.
14215.0	1035	09	06	RUS		P0N	40	14K0E	Container pulse radar
14221.0	2027	01	06			F1B	50	200	FSK
14222.0	0720	06	06	RUS		P0N	40	14K0E	Container pulse radar
14241.0	1357	07	06	RUS		P0N	40	14K0E	Container pulse radar
14262.0	0721	06	06	RUS		P0N	40	14K0E	Container pulse radar
14294.0	2025	01	06	CHN		F3N	50	10K0E	FMCW radar bursts
14298.5	0734	28	06			F1D		1K20E	DPRK FSK bursts. 600 Hz shift.
14306.0	1433	26	06	CHN		F3N	66.7	10K0E	FMCW radar bursts
14317.0	0638	02	06	RUS		P0N	40	14K0E	Container pulse radar
14328.0	1435	26	06	CHN		F3N	66.7	10K0E	FMCW radar bursts
14329.0	2045	25	06	CHN		F3N	50	10K0E	FMCW radar bursts
14345.0	1954	25	06	CHN		F3N	50	10K0E	FMCW radar bursts
18068.0	0744	06	06	CHN		F3N	66.7	10K0E	FMCW radar bursts. Also heard 071827z
18080.0	0731	28	06			A3E			BC
18085.0	0637	11	06	CHN		F3N	66.7	10K0E	FMCW radar bursts
18117.0	1717	11	06	RUS		P0N	40	14K0E	Container pulse radar
18150.0	0745	27	06	CHN		F3N	66.7	10K0E	FMCW radar bursts
18153.0	0702	11	06	CHN		F3N	62.5	10K0E	FMCW radar bursts
18165.0	1034	09	06	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21030.0	0913	23	06	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21150.0	0731	27	06	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21157.0	1707	10	06	RUS		P0N	40	14K0E	Container pulse radar
21170.0	0943	12	06	RUS		P0N	40	14K0E	Container pulse radar
21180.0	1708	10	06	RUS		P0N	40	14K0E	Container pulse radar
21193.0	1401	07	06	RUS		P0N	40	14K0E	Container pulse radar
21245.0	1441	08	06	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21280.0	0935	27	06	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21289.0	0729	08	06	CHN		F3N	66.7	10K0E	FMCW radar bursts
21290.0	0914	23	06	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21366.0	0646	09	06	CHN		F3N	66.7	10K0E	FMCW radar bursts
21372.0	0743	08	06	CHN		F3N	50	10K0E	FMCW radar bursts
21376.0	0706	11	06	CHN		F3N	50	10K0E	FMCW radar bursts
21380.0	0653	09	06	CHN		F3N	66.7	10K0E	FMCW radar bursts

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21381.0	1022	06	06	CHN		F3N	41.7	10K0E	FMCW radar bursts
21395.0	0829	03	06	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21416.0	0741	06	06	CHN		F3N	50	10K0E	FMCW radar bursts
21438.0	0830	03	06	RUS	RCV	A1A			Morse. Also heard 070845z
21440.0	0838	02	06	G		F3N	25	20K0E	FMCW radar, UK SBA, Cyprus
24950.0	0843	07	06	G		F3N	25	20K0E	FMCW radar, UK SBA, Cyprus
28610.0	1233	07	06	G		F3N	25	20K0E	FMCW radar, UK SBA, Cyprus
29400.0	1043	03	06	IRN		P0N		45K0E	Pulse radar 150.2 / 313.0 pps

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7 MHz	(2100-0200)		6	RUS		RADAR	40 sps	13k0E	(WebSDR 11d)
7000.0	1000-1545	*	6	RUS	RLO	A1A	20 wpm	40H	*)Days: 6. 8. 9. 15. 19.
7010.0	1215-1830	*	6	RUS		J7D	120	2k60E	*)Days: 1. 7. 16. 23. 29.
7016.0	0800-1400	01 30	6	RUS		F1B		200/ 250H	
7018.0	0840-1815	*	6	RUS		J7D	120	2k60E	*)Days: 6. 18. 21.
7019.0	0505-1840	*	6	RUS		F1B/ N0N		200H	*)Days: 5. 23. 26. - 30.
7020.0	0605-1515	*	6	RUS		F1B		250H	*)Days: 3. 17. 30.
7022.0	0510-1450	*	6	RUS		J7D	120	2k60E	*)Days: 2. 4. 5. 6. 16. 26.
7020.0	1145-1500/	*	6	RUS		F1B		250H	*)Days: 4. 9. 17.
7025.0	0500-1630	*	6	RUS		F1B		200H	*)Days: 1. 2. 5. 6. 7. 8. 10.
7032.0	0455-0600	01 - 30	6	RUS		J3E-u		3k50	Non-stop Russian anthem / mx
7032.0	0600-0800	28	6	RUS		J3E-u		3k50	Non-stop Russian anthem / mx
7032.0	1520-1800	*	6	RUS		J3E-u		3k50	*) Days: 6. 10. 20. 21. 30. Non-stop Russian anthem / mx
7034.0	1650-1735/	15	6	RUS		F1B		250H	
7051.7	0500-1840	*	6	RUS		XXX		1k2E	*)Days: 1. - 8. 30. Tactical Data Link
7066.0	1200-1830	09 30	6	RUS		F1B/ N0N		200H	
7078.0	0850-1400	17 18	6	RUS		J7D	120	2k50E	
7092.0	1315-1600	11	6	RUS		J7D	120	2k60E	
7102.0	1300-1500	02 23	6	RUS		F1B		200H	
7103.0	0730-1100	05	6	RUS		J7D	120	2k60E	
7110.0	1600-1805/	01 - 30	6	ETH	R. Ethiopia	A3E		9k0	

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7111.0	1345-1530	17	6	RUS		F1B		250H	
7152.5	1100-1300	17 18	6	RUS		F1B		250H	
7157.0	0730-1800	*	6		VB	A1A		40H	*)Days: 17. 18. 23. 24. "VB VB" every 75 sec.
7162.0	0525-1745	*	6	RUS		F1B/ N0N		200/ 250H	*)Days: 22. 23. 30.
7186.0	1200-1430	01 08	6	RUS		J7D	120	2k60E	
7200.0	1200-1500/	01 - 30	6	TWN	NUR	A3E		9k0	National unity radio to KRE. Frequency offset – 7 Hz
10 MHz	1145-1245	26	6	G		RADAR	50sps	20k0	(WebSDR 3d)
10 MHz	1200-1545	*	6	RUS		RADAR	40sps	13k0E	*)Days: 1. 5. 15. 20. 21. (WebSDR 19d)
14 MHz	0400-1630	*	6	RUS		RADAR	40sps	13k0E	*) Days: 1. 2. 3. 6. - 21. 23. - 30. (WebSDR 30d)
14 MHz	0900-1830	*	6	CHN		RADAR	50/67sp s	10k0E	*) Days: 1. 4. - 8. 11. 13. 14. 16. 20. 21. 24. - 29. 'foghorn'
14000.0	1357-1500/	01 - 30	6	CHN	RCI	A3E		9k0	TX intermod. // 13710 & 13855 kHz
14000.0	1300-1800	25	6			RADAR	10H4	4k5E	SuperDARN
14001.8	0505-1800	01 - 06	6			G1D		2k4E	Stanag
14008.0	0500-1600	*	6	RUS		F1B/ N0N		250H	*)Days: 1. 4. 8. - 11. 14. 15. 25. 26. 28. 29. 30.
14068.0	0735-1800	27	6	RUS		F1B		500H	
14108.0	0445-1230	*	6	RUS	MVY6 etc	A1A	15 wpm	40H	*)Days: 1. 3. 6. - 9. 12. 14. 22. - 30. 5BL
14192.0	0545-1820	*	6	RUS		F1B		200H	*)Days: 1. 2. 5. 9. 11. 18. - 24. 28. 29.
14192.0	0800-1300	*	6	RUS		F1B		250H	*)Days: 21. 27. 28. 29.
14221.0	0445-0600/	01 - 18	6	KAZ		F1B		200H	
14225.0	1430	29	6	CHN		RADAR	10 sps	40k	
14350.0	0510	27	6	CHN		RADAR	40 sps	100k	
18 MHz	0745-1545	*	6	G		RADAR	50 sps	20k0	*) Days: 3. 6. 9. 22. 26. 30. (WebSDR 6d)
18 MHz	0645-1730	*	6	RUS		RADAR	40 sps	13k0E	*)Days: 3. 6. 11. 17. 18. (WebSDR 13d)
21 MHz	0500-1700	*	6	G		RADAR	25/50sp s	20k0	*) Days: 1. 2. 3. 5. 7. 8. 12. 13. 14. 17. 18. 20. - 24. 26. - 29. (WebSDR 24d)
21 MHz	0730-1700	*	6	RUS		RADAR	40 sps	13k0E	*) Days: 1. 3. 8. 10. 12. 14. 15. 23. 25. 30. (WebSDR 16d)
21 MHz	0500-1800	*	6	CHN		RADAR	50/67sp s	10k0E	*) Days: 2. - 13. 15. 19. 21. 22. 24. 25. 26. 29. 'foghorn'
21095.0	1345-1400/	18 29	6			XXX		8k0E	
21438.0	/0830-1315	01 - 30	6	RUS	RCV	A1A	24 wpm	40H	navip
24 MHz	0740-	07	6	G		RADAR	25 sps	20k0	(WebSDR 1d)

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
	0930								
28 MHz	0800-1700	*	6	G		RADAR	25/50sp s	20k0	*) Days: 1. 3. 6. 7. 12. 13. (WebSDR 6d)
28 MHz	0515-1800	*	6	IRN		RADAR	150/ 313	60k0E	*) Days: 1. 3. 6. 7. 8. 11. 12. 14. 30. (WebSDR 7d)
28 MHz			6	IRN		RADAR	310/ 870	120k0E	(WebSDR 0d)
28860.0	0445-1815	*	6	IRN		RADAR	150/ 313	60k0E	*)Days: 1. 3. - 15. 18. -25. 27. -30. (WebSDR 12d)
28 MHz	0745-1730	*	6	RUS	Taxi disp.	F3E		3k0E	*)Days: 9. 14. 15. 19. 19 reports

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7021.0	17:56	22	06			J7D		2K70E	CIS-12
7022.9	20:30	14	06			J7D	120	2K70E	CIS-12. 12 x 120 Bd + pilot line. With carrier on 7020.61 kHz
7038.1	19:46	07	06			XXX		CA2K40E	Digital bursts. BW ca 2K40E
7050.0	19:33	18	06			J3E-L			UKR/RUS "radiowar"
7051.7	21:36 vt*	01 vd*	06					1K20E	TDL. Tactical Data Link. *Also on 02,04,06 and 07/06, vt
7060.0	20:44	08	06			J3E-L			Music
7065.0	19:42	21	06	RUS		RADAR	40	12K0E	OTHR Contayner
7101.00	22:24	29	06	RUS		RADAR	40	12K0E	OTHR Contayner
7137.0	20:54	22	06	RUS		F1B	50	200H	
10124.0	20:56	22	06	AUS		RADAR	7	CA10K0E	OTHR JORN bursts. With short intro tone
10147.0	15:51	24	06	RUS		RADAR	40	12K0E	OTHR Contayner. QRT: 1751 UTC
14000.0	13:16	25	06			RADAR		CA4K50E	SuperDARN-like radar. RX via G and FIN KiwiSDRs. RX HR OK from 1430 UTC on. Long-lasting
14001.8	09:18 vt*	01 vd*	06			G1D	2400	2K40E	STANAG-4285. Long-lasting. *Also on 02, 03, 04 and 05/06, vt
14001.8	14:12 vt*	16 vd*	06			XXX		2K40E	Digital bursts. *Often
14001.8	17:09	27	06			XXX		2K40E	X Short digital bursts. Often
14008.0	09:00 vt*	01 vd*	06	RUS		F1B	50	250H	*Often
14012.8	20:46 vt*	08 vd*	06			XXX		CA3K20E	Continuos digital signal. Long Lasting. *Also on 09, 10, 11 and 12/06, vt
14019.0	14:41	12	06	CHN		RADAR	50	10K0E	OTHR short bursts
14050.0	19:18	26	06			XXX	40	CA100K	XXX. Ca 100K0E, RX hr and on EU KwiSDR
14052.0	19:29	26	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14068.0	08:43	27	06			F1B	100	500H	Long-lasting
14074.8	05:39	21	06			XXX		CA3K50E	Continuous digital bursts. Jammer?
14089.0	08:00 vt*	09 vd*	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 26/06, 0717 UTC
14089.0*	07:05	20	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14199 kHz CF. 2 simultaneous TX on 20m
14098.4	07:27 vt*	03 vd*	06			F1B	600	600H	DPRK-FSK 600 ARQ *Almost daily
14105.0	13:57	14	06	CHN		RADAR	66.7	10K0E	OTHR short bursts

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14108.0	07:33 vt*	02 vd*	06		NKLS O3FD HNCX DO3K M4Y6 DOMC ZLZL AT6I 4I8L WUE3 ...	A1A			RUS MIL CW traffic. Encrypted QTC. 5 characters groups. Cyrillic CW alphabet used. Split traffic with other (out of band) sts. "RK" *Almost daily
14112.0	19:13	23	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14118.0	07:09 vt*	02 vd*	06			J7D	120	2K70E	CIS-12 *Also on 05/06, 0728 UTC
14118.0	12:24	26	06	RUS		RADAR	40	12K0E	OTHR Contayner
14120.0*	19:09 vt*	02 vd*	06	CHN		RADAR	66.7	10K0E	OTHR short bursts *Also on 14/06, 0849 UTC
14124.0	16:58	07	06			J3E-U			Broadcast relaying. Male speaker. Speech and music. Long-lasting
14127.0	18:59	09	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14140.0	12:44	19	06	RUS		RADAR	40	12K0E	OTHR Contayner
14141.3	18:11	08	06				75	2K40E	PRC 4 + 4. 8 x 75 Bd
14144.0	12:37	21	06	RUS		RADAR	40	12K0E	OTHR Contayner
14146.0*	19:46	27	06	RUS		RADAR	40	14K0E	OTHR Contayner. *Also on 14191 kHz CF. 2 simultaneous TX on 20m
14147.0*	14:23	13	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14180 kHz CF. 2 simultaneous TX on 20 m
14147.0	05:36	21	06	RUS		RADAR	40	12K0E	OTHR Contayner
14148.0	14:20	11	06	RUS		RADAR	40	12K0E	OTHR Contayner
14150.0*	15:21	12	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14240 kHz CF and 14227 kHz CF. 3 simultaneous TX on 20m
14151.0	19:46	18	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14152.0	19:24	18	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14152.0	11:50	21	06	RUS		RADAR	40	12K0E	OTHR Contayner
14154.0	06:34	24	06	RUS		RADAR	40	12K0E	OTHR Contayner
14155.0	11:39	24	06	RUS		RADAR	40	12K0E	OTHR Contayner
14158.0	19:45	11	06	CHN		RADAR	50	10K0E	OTHR short bursts
14159.0	16:52	07	06			J3E-U			Broadcast relaying. Male and female speakers. Long-lasting
14159.0	09:23	25	06	RUS		RADAR	40	12K0E	OTHR Contayner
14160.0	07:51	02	06			J3E-U			Voice loop. Male voice. RUS language.
14160.0	18:03	11	06			J3E-U		2K80E	USB. Broadcast relaying. Speech. Music Male speakers, UKR language. Long-lasting
14160.0	09:24	27	06	CHN		RADAR	66.7	10K0	OTHR short bursts
14160.6	07:42	02	06			A1A			Unid st transmitting CW loop "Ukraine is terrorist state"
14162.0	05:31	10	06			J7D	120	2K70E	CIS-12
14165.0	19:36	17	06	CHN		RADAR	62.5 66.7	10K0E	OTHR short bursts. Alternating 62.5 and 66.7 sps
14166.0	15:41	25	06	RUS		RADAR	40	12K0E	OTHR Contayner. 14166 kHz CF + 14184 kHz CF.

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14169.0*	12:32	05	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14200 kHz CF. 2 simultaneous TX on 20m
14169.0	14:36	26	06	RUS		RADAR	40	12K0E	OTHR Contayner
14173.0	15:09 vt*	25 vd*	06	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 28/06, 1522 UTC
14174.0	09:07	07	06			J7D		2K70E	CIS-12 bursts
14174.0*	13:43	20	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14089 kHz CF. 2 simultaneous TX on 20m
14179.0	15:26	19	06	RUS		RADAR	40	12K0E	OTHR Contayner
14180.0	14:44 vt*	04 vd*	06	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 13/06, 1425 UTC
14180.0*	12:40	10	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14200 kHz CF. 2 simultaneous TX on 20m
14181.0	14:56	08	06	RUS		RADAR	40	14K0E	OTHR Contayner
14182.0	12:40	18	06	RUS		RADAR	40	12K0E	OTHR Contayner
14183.0	08:49 vt*	02 vd*	06	RUS		RADAR	40	14K0E	OTHR Contayner. *Also on 22/06, 1346 UTC and 30/06, 1457 UTC
14184.0	11:31 vt*	07 vd*	06	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 14/06, 0809 UTC & 26/06, 1322 UTC
14184.0*	09:48	08	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14219 kHz CF and 14241 kHz CF. 3 simultaneous TX on 20m
14184.0*	15:43	25	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14166 kHz CF. 2 simultaneous TX on 20m
14185.0	13:07	27	06	RUS		RADAR	40	12K0E	OTHR Contayner
14189.0	12:04 vt*	13 vd*	06	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 20/06, 1647 UTC
14190.8	15:58	04	06			NON			Carrier. Long-lasting
14191.0	19:13	27	06	RUS		RADAR	40	12K0E	OTHR Contayner
14192.0	08:58 vt*	01 vd*	06	RUS		F1B	50	200H	*Almost daily
14193.0	15:45	12	06	RUS		RADAR	40	12K0E	OTHR Contayner
14198.5	12:25 vt*	12 vd*	06			F1B	600	600H	DPRK-FSK 600 ARQ *Often
14199.0*	07:07	20	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14089 kHz CF. 2 simultaneous TX on 20m
14200.0	08:35 vt*	03 vd*	06	RUS		RADAR	40	14K0E	OTHR Contayner. *Also on 05,06 and 10/06, vt
14200.0*	12:48	22	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14222 kHz CF. 2 simultaneous TX on 20m
14200.0*	11:39	23	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14230 kHz CF. 2 simultaneous TX on 20m
14201.0	12:07	12	06	RUS		RADAR	40	12K0E	OTHR Contayner
14203.0*	1012	28	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14254 kHz CF. 2 simultaneous TX on 20m
14208.0 USB	17:26	20	06			W7D	44.44	2K40E	CHN OFDM 39. 39 tones. 44.44 Bd each, with pilot tone on 400 Hz
14212.0	10:25	19	06	RUS		RADAR	40	12K0E	OTHR Contayner
14215.0	10:35	09	06	RUS		RADAR	40	12K0E	OTHR Contayner
14217.0	06:18	20	06	RUS		RADAR	40	12K0E	OTHR Contayner
14218.0	12:46	06	06	RUS		RADAR	40	12K0E	OTHR Contayner

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14219.0	09:44 vt*	04 vd*	06	RUS		RADAR	40	14K0E	OTHR Contayner *Also on 08/06, 0939 UTC
14221.0	21:42 vt*	01 vd*	06	KAZ		F1B	50	200H	*Almost daily
14222.0*	12:50	19	06	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 14140 kHz CF. 2 simultaneous TX on 20m
14222.0	12:48	22	06	RUS		RADAR	40	12K0E	OTHR Contayner
14223.0	11:57	18	06	RUS		RADAR	40	12K0E	OTHR Contayner
14224.0	07:09	30	06	RUS		RADAR	40	12K0E	OTHR Contayner
14227.0	11:35	30	06	RUS		RADAR	40	12K0E	OTHR Contayner
14228.0	16:27	05	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14229.0	14:12	01	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14230.0	11:40	23	06	RUS		RADAR	40	12K0E	OTHR Contayner
14240.0*	13:28	12	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14337 kHz CF. 2 simultaneous TX on 20m
14241.0*	09:43	08	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14219 kHz CF. 2 simultaneous TX on 20m
14242.0	14:00	01	06			J7D	120	2K70E	CIS-12
14248.0	19:45	21	06	CHN		RADAR	50	10K0E	OTHR short bursts
14248.5	07:53	02	06					1K20E	DPRK-PSK 1200
14249.0	14:07	01	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14253.0	07:39	14	06	RUS		RADAR	40	12K0E	OTHR Contayner
14254.0	1012	28	06	RUS		RADAR	40	12K0E	OTHR Contayner
14256.0	08:59	28	06	RUS		RADAR	40	12K0E	OTHR Contayner
14257.0	05:48	16	06	CHN		RADAR	50	10K0E	OTHR short bursts
14258.0	08:16	07	06	RUS		RADAR	40	12K0E	OTHR Contayner
14259.0	08:55	08	06	RUS		RADAR	40	12K0E	OTHR Contayner
14261.0	18:57	09	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14261.0	13:53	24	06	RUS		RADAR	40	12K0E	OTHR Contayner
14262.0	09:11	27	06	RUS		RADAR	40	12K0E	OTHR Contayner
14266.0	18:40	05	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14267.0	07:32	12	06	RUS		RADAR	40	12K0E	OTHR Contayner
14271.3	14:45	13	06				75	2K07E	PRC 4+4. 8 x 75 Bd
14276.0	20:14	17	06	CHN		RADAR	50	10K0E	OTHR short bursts
14279.0	17:22	11	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14280.0	14:00	13	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14282.0	20:13	17	06	CHN		RADAR	50	10K0E	OTHR short bursts
14286.0	05:29	16	06	RUS		RADAR	40	12K0E	OTHR Contayner
14292.0	11:29 vt*	16 vd*	06		QKNN	A1A			Non-amateur CW traffic: "PYFI DE QKNN K" "RK". RUS MIL. *Often
14292.0	20:24	20	06	RUS		RADAR	40	14K0E	OTHR Contayner
14294.0	18:38	05	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14294.0	14:20	27	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14294.0	10:23	30	06	RUS		RADAR	40	12K0E	OTHR Contayner
14297.0	16:07	08	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14298.5	07:12	05 vt*	06 vd*			F1B	600	600H	DPRK-FSK 600 ARQ *Almost daily
14298.5	06:18 vt*	02 vd*	06					1K20E	DPRK-PSK 1200 *Often

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kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14299.0*	10:22	23	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14332 kHz CF. <i>2 simultaneous TX on 20m</i>
14300.0	09:50 vt*	07 vd*	06	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 14/06, 0851 UTC
14302.0	14:15	01	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14303.0	08:08	28	06	RUS		RADAR	40	12K0E	OTHR Contayner
14303.3	07:05	02	06			F1B	600	600H	DPRK-FSK 600 ARQ
14303.6*	07:36	05	06			F1B	600	600H	DPRK-FSK 600 ARQ. *Also on 14298.62 kHz CF
14305.0	16:10	06	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14306.0	19:31 vt*	18 vd*	06	CHN		RADAR	66.7	10K0E	OTHR short bursts *also on 26/06, 1440 UTC
14308.9	11:09	07	06			NON			Carrier. Long-lasting
14309.0	16:09	20	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14311.0	13:59	13	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14314.0	20:40	11	06	CHN		RADAR	50	10K0E	OTHR short bursts
14314.0	14:37	12	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14314.0	19:30	26	06	CHN		RADAR	50	10K0E	OTHR short bursts
14317.0	06:40	02	06	RUS		RADAR	40	14K0E	OTHR Contayner
14317.0	16:34	24	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14321.0	19:42	17	06	CHN		RADAR	50	10K0E	OTHR short bursts
14323.0 USB	15:56 vt*	24 vd*	06			J7D	125		CHN MIL-188-141A-ALE 2G. 8 x 125 Bd *Also on 27/06, 1345 UTC
14324.0	16:26 vt*	04 vd*	06	CHN		RADAR	66.7	10K0E	OTHR short bursts *Also on 17/06, 1950 UTC
14327.0	11:21	13	06	RUS		RADAR	40	12K0E	OTHR Contayner
14327.0	14:02	20	06	RUS		RADAR	40	12K0E	OTHR Contayner
14328.0	14:34	26	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14329.0	18:52	18	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14331.3	16:18	14	06				75	2K40E	PRC 4+4. 8 x 75 Bd
14332.0	10:23	23	06	RUS		RADAR	40	12K0E	OTHR Contayner
14333.0	22:28	29	06	CHN		RADAR	41.7	10K0E	OTHR short bursts
14334.6	16:22	14	06			J7D	125	1K75E	CHN MIL-188-141A-ALE bursts. 8 x 125Bd
14337.0	13:29	12	06	RUS		RADAR	40	12K0E	OTHR Contayner
14339.0	20:41	11	06	CHN		RADAR	41.7	10K0E	OTHR short bursts
14339.0	14:12	27	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
14342.0	06:05	16	06	CHN		RADAR	83.3	10K0E	OTHR short bursts
14342.0	19:32	26	06	CHN		RADAR	50	10K0E	OTHR short bursts
14347.0	19:15	27	06	CHN		RADAR	50	10K0E	OTHR short bursts
14350.0	19:56	21	06			XXX	40	200K0E	BW ca 200 kHz estimated
14356.0	17:22	16	06	CHN		RADAR	50	10K0E	OTHR short bursts
18055.0	06:38	03	06	G		RADAR	50	20K0E	UK SBA, Cyprus. -70 dBm. Splatter to 18076 kHz
18060.0	09:24	30	06	G		RADAR	50	20K0E	UK SBA, Cyprus
18067.0	15:37	03	06	RUS		RADAR	40	14K0E	OTHR Contayner
18080.0	11:45 vt*	06 vd*	06	G		RADAR	50	20K0E	UK SBA, Cyprus *Also on 26/06, 0812 UTC
18115.0	18:23	11	06	RUS		RADAR	40	14K0E	OTHR Contayner
18117.0	15:40 vt*	06 vd*	06	RUS		RADAR	40	14K0E	OTHR Contayner *Also on 11/06, 1418 UTC

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
18118.0	11:18 vt*	13 vd*	06	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 18/06, 0746 UTC
18118.0*	17:47	22	06	RUS		RADAR	40	14K0E	OTHR Contayner. *Also on 18173 kHz CF. 2 simultaneous TX on 17m
18140.0	20:01	20	06	CHN		RADAR	41.7	10K0E	OTHR short bursts
18149.4	06:08	21	06			F1B	600	600H	DPRK-FSK 600 ARQ
18152.0	08:19	28	05	CHN		RADAR	66.7	10K0E	OTHR short bursts
18165.0	10:24 vt*	09 vd*	06	G		RADAR	50	20K0E	UK SBA, Cyprus *Also on 16/06, 0709 UTC & 1234 UTC
18170.0	15:29 vt*	03 vd*	06	G		RADAR	50	20K0E	UK SBA, Cyprus *Also on 22/06, 1252 UTC
18172.0	05:33	16	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
18173.0	17:49	22	06	RUS		RADAR	40	14K0E	OTHR Contayner. Spurious from 18068 to 18168 kHz.
18175.0	07:41	26	06	G		RADAR	50	20K0E	UK SBA, Cyprus. BW = 20K0E. 50 sps
21000.0	10:27 vt*	01 vd*	06			J3E-U			Spanish fishers. Spanish language. Strong Southern accent. Same ops as always. *Very often. <u>For years</u>
21000.0	07:22	05	06			NON			
21000.9	10:30	01	06			A1N			Continuous fast dots
21027.0	05:54	12	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21030.0*	08:55	23	06	G		RADAR	50	20K0E	UK SBA, Cyprus. *Also on 21290 kHz CF. 2 simultaneous TX on 15m
21095.0	13:29 vt*	20 vd*	06			XXX		CA6K70E	Continuous signal. *Also on 24/06, 1320 UTC
21110.0	15:27	06	06	G		RADAR	25	20K0E	UK SBA, Cyprus
21113.0	19:53	07	06			F1B	50	200H	
21115.0	06:15	03	06	G		RADAR	25	20K0E	UK SBA, Cyprus
21123.3	07:43	14	06				75	2K40E	PRC 4+4. 8 x 75 Bd
21125.0	06:26	21	06	CHN		RADAR	50	10K0E	OTHR short bursts
21126.0	15:00	04	06	CHN		RADAR	417	10K0E	OTHR short bursts
21134.0*	11:36	30	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 14157 kHz CF. 2 simultaneous TX on 15m
21135.0	20:03	20	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21141.0*	08:51	23	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 21170 kHz CF. 2 simultaneous TX on 15m
21145.0 USB	16:48	22	06			J7D		1K75E	MIL-188-141A-ALE bursts
21149.3	06:13	24	06			F1B	600	600H	DPRK-FSK 600 ARQ
21150.0	08:34	05	06	G		RADAR	25	20K0E	UK SBA, Cyprus
21150.0	08:59	27	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21151.5	19:09 vt*	24 vd*	06			XXX	10K0E	CA10K0E	Most probably, jammer. Long-lasting *Also on 22, 24 and 26/06, vt
21155.0	07:15	20	06	CHN		RADAR	50	10K0E	CHN OTHR
21157.0	11:36	30	06	RUS		RADAR	40	12K0E	OTHR Contayner
21161.0	12:08 vt*	12 vd*	06	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 23/06, 1011 UTC
21162.0	07:14	30	06	CHN		RADAR	40	12K0E	OTHR Contayner
21163.0	12:19 vt*	06 vd*	06	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 16/06, 1515 UTC
21163.3	06:35	09	06				75	2K40E	PRC 4 + 4. 8 x 75 Bd

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21167.0	12:21	26	06	RUS		RADAR	40	12K0E	OTHR Contayner
21170.0	08:52	23	06	RUS		RADAR	40	12K0E	OTHR Contayner
21177.0	09:11	14	06	RUS		RADAR	40	12K0E	OTHR Contayner
21180.0	09:14	13	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21180.0	15:47	24	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21182.0	15:32	06	06	CHN		RADAR	41.7	10K0E	OTHR short bursts
21193.0	09:00	08	06	RUS		RADAR	40	14K0E	OTHR Contayner
21193.3	08:07	05	06				75	2K40E	PRC 4+4. 8 x 75 Bd
21194.0	06:27	21	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21198.2	10:41	22	06			XXX		600HZ	Continuous digital bursts. Long-lasting
21200.0	09:13	24	06	G		RADAR	25	20K0E	UK SBA, Cyprus
21220.0	11:48	06	06	CHN		RADAR	41.71		OTHR short bursts
21243.0	09:27	30	06	RUS		RADAR	40	12K0E	OTHR Contayner
21244.0	08:18	07	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21248.4	06:14	24	06			F1B	600	600H	DPRK-FSK 600 ARQ
21252.0	09:10	13	06	CHN		RADAR	50	10K0E	OTHR short bursts
21265.0	09:22	08	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21270.0	08:51	01	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21280.0	09:38	27	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21281.0	10:57	22	06	CHN		RADAR	50	10K0E	OTHR short bursts
21286.0	05:42	10	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21290.0	08:49 vt*	23 vd*	06	G		RADAR	50	20K0E	UK SBA, Cyprus. *Also on 30/06, 0715 UTC
21294.0	09:59	08	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21296.0	07:21	26	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21300.0	09:30	21	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21302.0	05:46	03	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21307.0	13:42	28	06	RUS		RADAR	40	12K0E	OTHR Contayner
21310.0	11:49	06	06	CHN		RADAR	41.7	10K0E	OTHR short bursts
21310.0	10:27	22	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21312.0	06:50	10	06	CHN		RADAR	50	10K0E	OTHR short bursts
21323.0	07:22	26	06	CHN		RADAR	50	10K0E	OTHR short bursts
21325.0	08:53	08	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21327.0	15:07	08	06	CHN		RADAR	41.7	10K0E	OTHR short bursts
21328.0	09:55	08	06	CHN		RADAR	50	10K0E	Short bursts
21330.0	05:43	03	06	CHN		RADAR	50	10K0E	OTHR short bursts
21335.0	07:59	28	06	G		RADAR	25	20K0E	UK SBA, Cyprus
21340.0	06:18	12	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21343.0	17:01	22	06	CHN		RADAR	50	10K0E	OTHR short bursts
21348.0	06:47	02	06	CHN		RADAR	50	10K0E	OTHR short bursts
21348.0	05:44	10	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21350.0	06:27	03	06	G		RADAR	25	20K0E	UK SBA, Cyprus
21350.0	11:38	30	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21351.0	15:50	06	06	CHN		RADAR	47	10K0E	OTHR short bursts. 1 burst every 10 sec
21352.0	05:46	21	06	CHN		RADAR	50	10K0E	OTHR short bursts
21355.0	09:26	03	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21358.0	09:17	13	06	CHN		RADAR	50	10K0E	OTHR short bursts

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21365.0	07:50	14	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21369.0	05:13	09	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21375.0	10:38	18	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21377.0	12:30	16	06	RUS		RADAR	40	12K0E	OTHR Contayner
21389.0*	13:20	12	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 21424 kHz CF. 2 simultaneous TX on 15m
21390.0	08:22	07	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21390.0	16:54	08	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21395.0	08:27	03	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21396.7	06:50	03	06			J7D		1K75E	MIL-188-141A - ALE
21399.0	14:11	04	06	CHN		RADAR	41.7	10K0E	OTHR short bursts
21401.0	06:48	02	06	CHN		RADAR	50	50K0E	OTHR short bursts
21404.0	08:20	07	06	CHN		RADAR	47	10K0E	OTHR short bursts
21407.0	05:41	10	06	CHN		RADAR	50	10K0E	OTHR short bursts
21409.0	11:53	06	06	CHN		RADAR	41.7	10K0E	OTHR short bursts
21410.0	08:06 vt*	12 vd*	06	RUS		RADAR	40	14K0E	OTHR Contayner *Also on 16/06, 1410 UTC
21410.0	08:24	25	06	G		RADAR	50	20K0E	UK SBA, Cyprus
21414.0*	12:31	16	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 21 377 kHz CF. 2 simultaneous TX on 15m
21420.0	15:04 vt*	04 vd*	06	CHN		RADAR	41.7	10K0E	OTHR short bursts *Also on 06/06, 1534 UTC
21420.0	06:46	10	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21422.0	08:49	10	06	RUS		RADAR	40	12K0E	OTHR Contayner
21424.0	07:07	03	06	CHN		RADAR	41.7	10K0E	OTHR short bursts
21424.0*	12:10	12	06	RUS		RADAR	40	12K0E	OTHR Contayner. *Also on 21161 kHz CF. 2 simultaneous TX on 15 m
21434.0	07:24	26	06	CHN		RADAR	48	10K0E	OTHR short bursts
21438.0	08:31 vt*	02 vd*	06	RUS	RCV	A1A			RUS navy QTC *Almost daily
21440.0	08:30	02	06	G		RADAR	25	20K0E	UK SBA; Cyprus
21441.0	05:14	09	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
21448.0	11:50	06	06	CHN		RADAR	41.7	10K0E	OTHR short bursts
21455.0	11:02	13	06			A3E		10K0E	BC. A3E. Radio Free Asia. Splatter to 21447 kHz. End of TX: 1100 UTC
24905.0	06:34 vt*	02 vd*	06			A1A			Unid st. Numbers and letters *Also on 16/06, 0630 UTC
24950.0	08:31	07	06	G		RADAR	25	20K0E	UK SBA, Cyprus
24955.0	07:06	05	06	CHN		RADAR	66.7	10K0E	OTHR short bursts
28020.3	19:47	27	06		TTTI	A1A			Fishing buoy
28021.1	19:27	17	06		CL	A1A			Fishing buoy
28036.5	19:28	17	06		CF	A1A			Fishing buoy
28085.0	19:29	17	06			F1B		CA300H	Fishing buoy. Encrypted FSK
28100.9	19:30	17	06			F1B		CA300H	Fishing buoy. Encrypted FSK
28165.0	16:03	14	06	F		A3E			French CBers
28171.5	19:30	17	06		DA	A1A			Fishing buoy
28250.0	14:11	13	06	G		RADAR	50	20K0E	UK SBA, Cyprus
28275.1	19:31	17	06			F1B		CA300H	Fishing buoy. Encrypted FSK
28310.0	07:58	12	06	G		RADAR	25	20K0E	UK SBA, Cyprus

URE; Gaspar, EA6AMM

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
28339.8	19:32	17	06		EHE	A1A			Fishing buoy.
28450.0	17:34	11	06	IRN		RADAR	150	45K0E	Alternating 150 and 313 sps bursts
28570.0	08:20	13	06	G		RADAR	50	20K0E	UK SBA, Cyprus
28860.0	18:17 vt*	02 vd*	06	IRN		RADAR	150	45K0E	Alternating 150 and 313 sps bursts. *Almost daily
28900.0	18:02	04	06	IRN		RADAR	150	45K0E	Alternating 150 and 313 sps bursts
29450.0*	15:33 vt**	03 vd**	06	IRN		RADAR	150	45K0E	Alternating 150 and 313 sps bursts. *Jumping between 29500 kHz CF and 29450 kHz CF. **Often
29670.0	07:04	12	06	G		RADAR	25	20K0E	UK SBA, Cyprus

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7004.8	2112	28	06			G1D PSK8	2400 Bd	ca 2k5	short bursts; 1800 Hz single tone modem MIL 188-xxx often
7010.0	1439	07	06			J7D	12x120 Bd	2k70E	CIS12; idling
7023.0	2138	19	06			FMOP	40 sps	12k0E	OTHR; Contayner
7050.0 LSB	1639	16	06			J3E-L		ca 3k0E	RUS-UKR Radio War almost daily
7051.7	2134 1451 0810	01 06 30	06			XXX	1200 Bd	1k20E	unid system, maybe tactical data link?
7054.0	1434	07	06			F1B	50 Bd	200H	FSK, daily since very long time
7055.0 LSB	1649	06	06			J3E-L		ca 3k0E	RUS-UKR Radio War; Music daily horrible!
7065.0	2140	16	06			FMOP	40 sps	12k0E	OTHR; Contayner
7137.0	2034	21	06			F1B	50	200H	FSK often
7141.0 LSB	2137 2148	19	06			PSK-4	30x 60 Bd	2k50E	CHN30 (PRC30); Burst system; Pilot tone at 450Hz
7147.0 LSB	2143	19	06			PSK-4	30x 60 Bd	2k50E	CHN30 (PRC30); Burst system; Pilot tone at 450Hz
7155.0 LSB	2139	15	06			PSK-4	30x 60 Bd	2k50E	CHN30 (PRC30); Burst system; Pilot tone at 450Hz
7171.0 LSB	2056 2128	12 15	06			PSK-4	30x 60 Bd	2k50E	CHN30 (PRC30); Burst system; Pilot tone at 450Hz
7198.0 LSB	2143	15	06			PSK-4	30x 60 Bd	2k50E	CHN30 (PRC30); Burst system; Pilot tone at 450Hz
14000.0	1448	06	06		CRI	A3E			China Radio International. intermo-dulation from 13855 + 13710 kHz daily
14001.8	0929 0740	01 06	06			PSK-8	2400 Bd	2k40E	STANAG 4285; long lasting often
14008.0	0903 0822	01 08	06			F1B	50 Bd	250H	FSK almost daily
14067.92	0752	19	06			F1B	75 Bd	333H	FSK, strange shift!
14089.0	0826	20	06			FMOP	40 sps	12K0E	OTHR; Contayner
14098.5	0731	06	06			ARQ PSK	600 Bd	600H	DPRK PSK ARQ system often
14140.0	1246	19	06			FMOP	40 sps	12K0E	OTHR; Contayner
14141.x	1819	18	06			QPSK	75Bd	2K50E	CHN 4+4 (aka PRC 4+4)
14152.0	1155	21	06			FMOP	40 sps	12K0E	OTHR; Contayner

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14166.0	1606	25	06			FMOP	40 sps	12K0E	OTHR; Contayner (+14183 kHz)
14179.0	1604	19	06			FMOP	40 sps	12K0E	OTHR; Contayner
14182.0	0755	08	06			FMOP	40 sps	12K0E	OTHR; Contayner
14183.0	1609	25	06			FMOP	40 sps	12K0E	OTHR; Contayner (+14166 kHz)
14184.0	0829	08	06			FMOP	40 sps	12K0E	OTHR; Contayner
14192.0	0900 0654	01 29	06			F1B	50 Bd	200H	FSK often
14198.5	0626	02	06			ARQ PSK	1200	1k20E	DPRK PSK ARQ system often
14199.0	0812	20	06			FMOP	40 sps	12K0E	OTHR; Contayner
14201.7	1307	19	06			PSK-2	16x 75 Bd	ca 2k20E	CHN-16 (aka PRC 16), weak (strong via JA rx)
14219.0	0949 0947	04 08	06			FMOP	40 sps	12K0E	OTHR; Contayner
14221.0	2207 2123	01 15	06			F1B	50 Bd	200H	FSK often
14222.0	0724	06	06			FMOP	40 sps	12K0E	OTHR; Contayner
14241.0	0941	08	06			FMOP	40 sps	12K0E	OTHR; Contayner
14259.0	0810	08	06			FMOP	40 sps	12K0E	OTHR; Contayner
14262.0	0728	06	06			FMOP	40 sps	12K0E	OTHR; Contayner
14295.0	1042	30	06			FMOP	40 sps	12K0E	OTHR; Contayner
14298.5	0736 1216	06 09	06			ARQ PSK	600 + 1200 Bd	600H 1k20H	DPRK PSK ARQ system often
14299.0	0736	15	06			FMOP	40 sps	12K0E	OTHR; Contayner
14324.0	1651	04	06			FMCW	66.66 sps	10k0E	OTHR; Bursts
14333.0 USB	1703	14	06		BC2	MFSK-8 J7D	8x 125 Bd	1k750	ALE MIL188-141A; To: DB5
18060.0	0953	30	06	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus; partially in 17m band often
18117.0	1543	06	06			FMOP	40 sps	12K0E	OTHR; Contayner
18118.0	0749	18	06			FMOP	40 sps	12K0E	OTHR; Contayner
18165.0	1104	09	06	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21110.0	1533	06	06	G		FMCW	25 sps	20k0E	OTHR; UK base Cyprus often
21200.0	1642	16	06			A1A			fast dots only, long lasting
21265.0	0919	08	06	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21270.0	0854	01	06	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21300.0	0939	21	06	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21364.0	0814	18	06	G		FMCW	50 sps	10k0E	OTHR; continuous, long lasting
21395.0	0921	04	06	G		FMCW	25 sps	20k0E	OTHR; UK base Cyprus
21397.0	1500	07	06			FMCW	50 sps	10k0E	OTHR; bursts
21423.0	0941	30	06			FMOP	40 sps	12k0E	OTHR; Contayner; long lasting
21438.0	0924	04	06	RUS	RCV	A1A		10H	Area of Sevastopol; Daily, since years!
28082.0	1238	18	06			F1B	51 Bd	300H	GPS Fishery buoy, short bursts
28085.0	1602	17	06			F1B	51 Bd	300H	GPS Fishery buoy, short bursts
28100.0	1639	17	06			F1B	51 Bd	300H	GPS Fishery buoy, short bursts
28161.54	0701	01	06		A	A1A			Fishery Buoy
28610.0	1236	06	06	G		FMCW	25 sps	20k0E	OTHR; UK base Cyprus
28860.0	0926 1255	04 07	06	IRN			150 + 313 sps	ca 50k	OTHR; Bursts; long lasting, sweep rate alternating almost daily
29445.0	0808	06	06	IRN		OTHR	150+	ca 45k0	OTHR; Bursts:

USKA; Peter, HB9CET

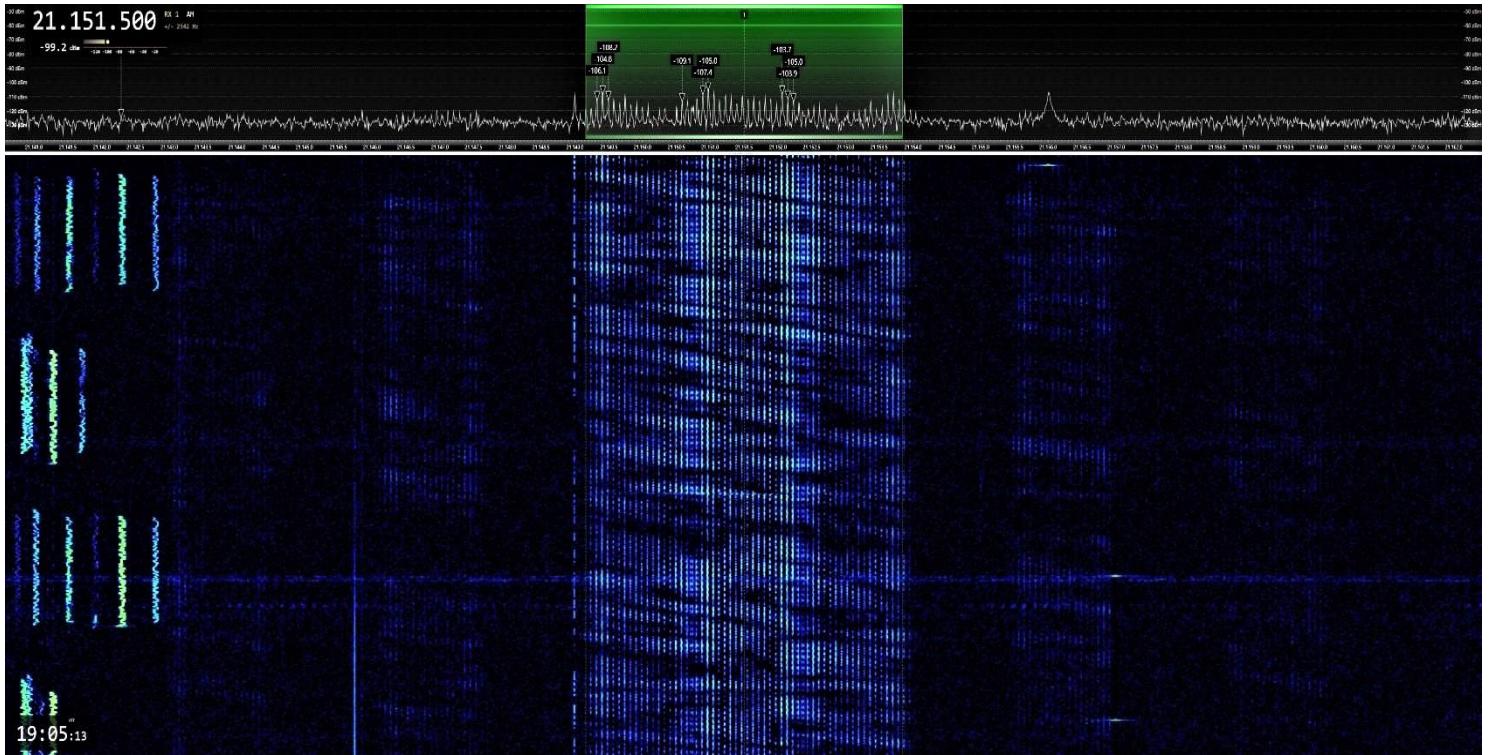
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
							313 sps		sweep rate alternating
29500.0	0946	06	06	IRN		OTHR	150+ 313 sps	ca 45k0	OTHR; Bursts: often sweep rate alternating
29525.0	0910	01	06			F1B	81.9 Bd	ca 140Hz	FSK, oceanographic data buoy

VERON; Ruud, PG1R. Credits to observers Dick PA0GRU, Kees PA2CHM

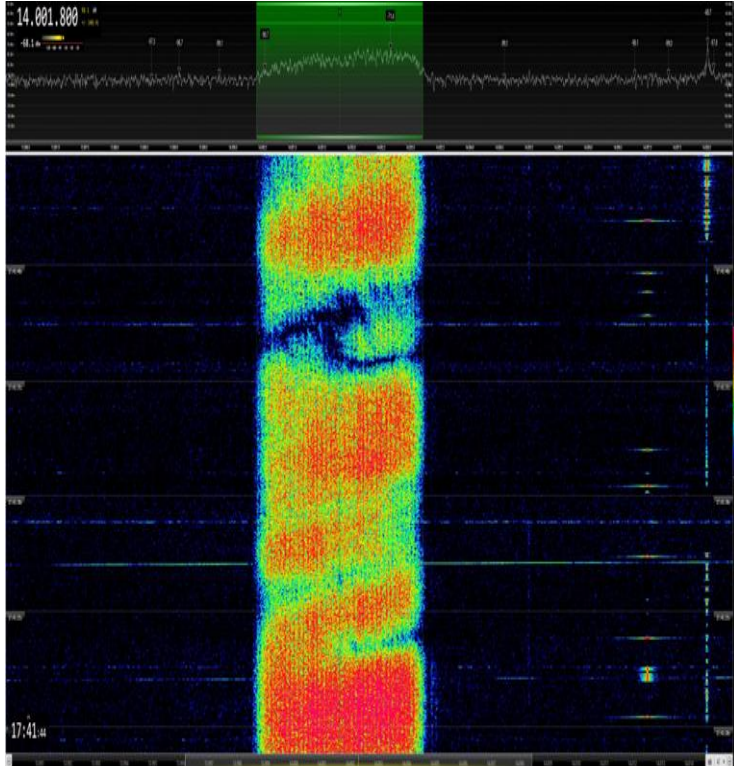
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7011.0	1815	01	06	CHN		RADAR		10K0E	OTHR
7137.0	2016	21	06	RUS		F1B		200H	Kaliningrad
10108.0	1453	06	06	RUS	RDL	F1B/F1A	50	200H	Printer; long lasting traffic; amateur 2nd allocation!; ID in F1A
14000.0	0715	02	06	RUS		J7D		3K0E	CIS-12; 12 tone PSK
14008.0	1040	01	06	RUS		F1B		250H	Also 1239UTC
14008.0	0810	27	06	RUS		F1B		250H	Printer
14008.0	0837	28	06	RUS		F1B		250H	
14068.0	0924	27	06	RUS		F1B		500H	UiPtr; TDOA 50N 28E; 0927UTC qrt
14086.0	0731	20	06			RADAR		16K0E	
14108.0	0811	09	06	RUS	F3D4	A1A			LE5V de F3D4 qtc; TDoA 53N 29E
14108.0	1015	12	06	RUS		A1A			5L; mil tfc
14108.0	1036	22	06	RUS	WUE3	A1A			BFD7 de WUE3; mil tfc
14155.0	1026	12	06	RUS		RADAR		12K0E	OTHR Contayner; TDoA 55N 43E
14168.0	1027	26	06	RUS		RADAR		20K0E	OTHR; 2 x Contayner side by side?; TDoA 54N 34E
14182.0	1130	29	06	RUS		RADAR		14K0E	OTHR Contayner with splatters; S9
14192.0	0600	24	06	RUS		F1B	50	200H	Printer; often
14195.0	0930	23	06	CHN		RADAR		10K0E	OTHR
14197.6	1314	24	06			NON		1k0E	CF; two carriers spread 1kHz; continuous for more than 15 minutes
14215.0	1037	09	06	RUS		RADAR	40	12K0E	OTHR Contayner
14216.0	1041	09	06	RUS		RADAR	40	20K0E	OTHR; 2 x Contayner side by side?; TDoA 51N 49E
14255.0	0919	28	06	G		RADAR		20K0E	OTHR UK AB Cyprus
14300.0	0926	14	06	RUS		RADAR		12K0E	OTHR Contayner
14320.0	0651	02	06	RUS		RADAR		12K0E	OTHR Contayner; TDoA 53N 55E
14325.0	1438	20	06	G		RADAR		20K0E	OTHR UK AB Cyprus
14336.0	1356	12	06	RUS		RADAR		12K0E	OTHR Contayner; TDoA 553N 56E
18065.0	0916	15	06	G		RADAR		20K0E	OTHR UK AB Cyprus
21028.0	0900	23	06	G		RADAR	50	20K0E	CF; OTHR UK AB Cyprus; reported by PF5X
21177.0	1006	14	06	RUS		RADAR		12K0E	OTHR Contayner
21438.0	0900	07	06	RUS	RCV	A1A			RGX94 de RCV qtc 83671 6120 etc.; also on 14/06 1030utc, 15/06 0937utc, 28/06 0851utc and 30/06 0922utc.
28180.0	0933	15	06	IRN		RADAR		45K0E	OTHR bursts
28855.0	0708	14	06	IRN		RADAR		45K0E	OTHR; long lasting

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

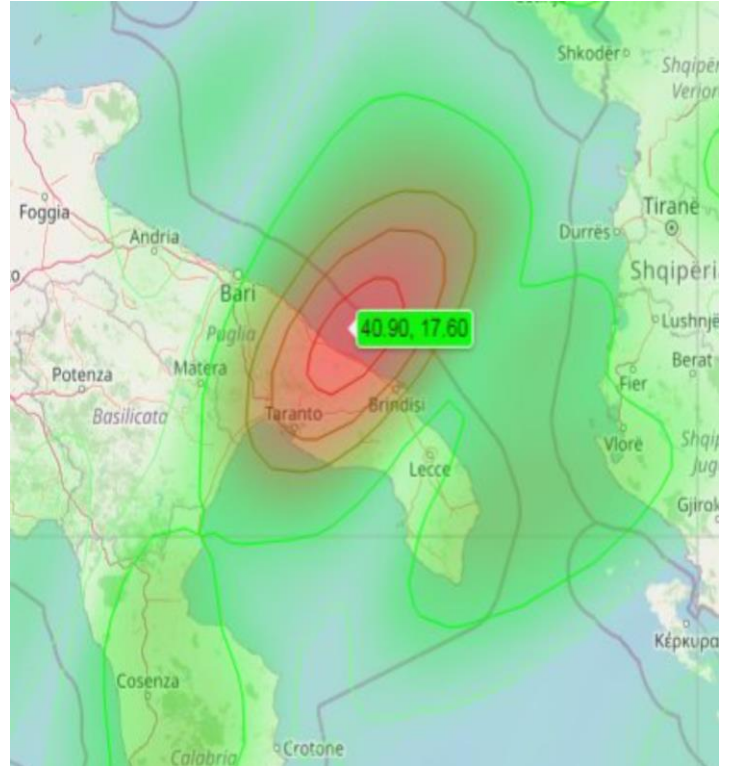
Visit our website: <https://www.iaru-r1.org/about-us/committees-and-working-groups/iarums/>



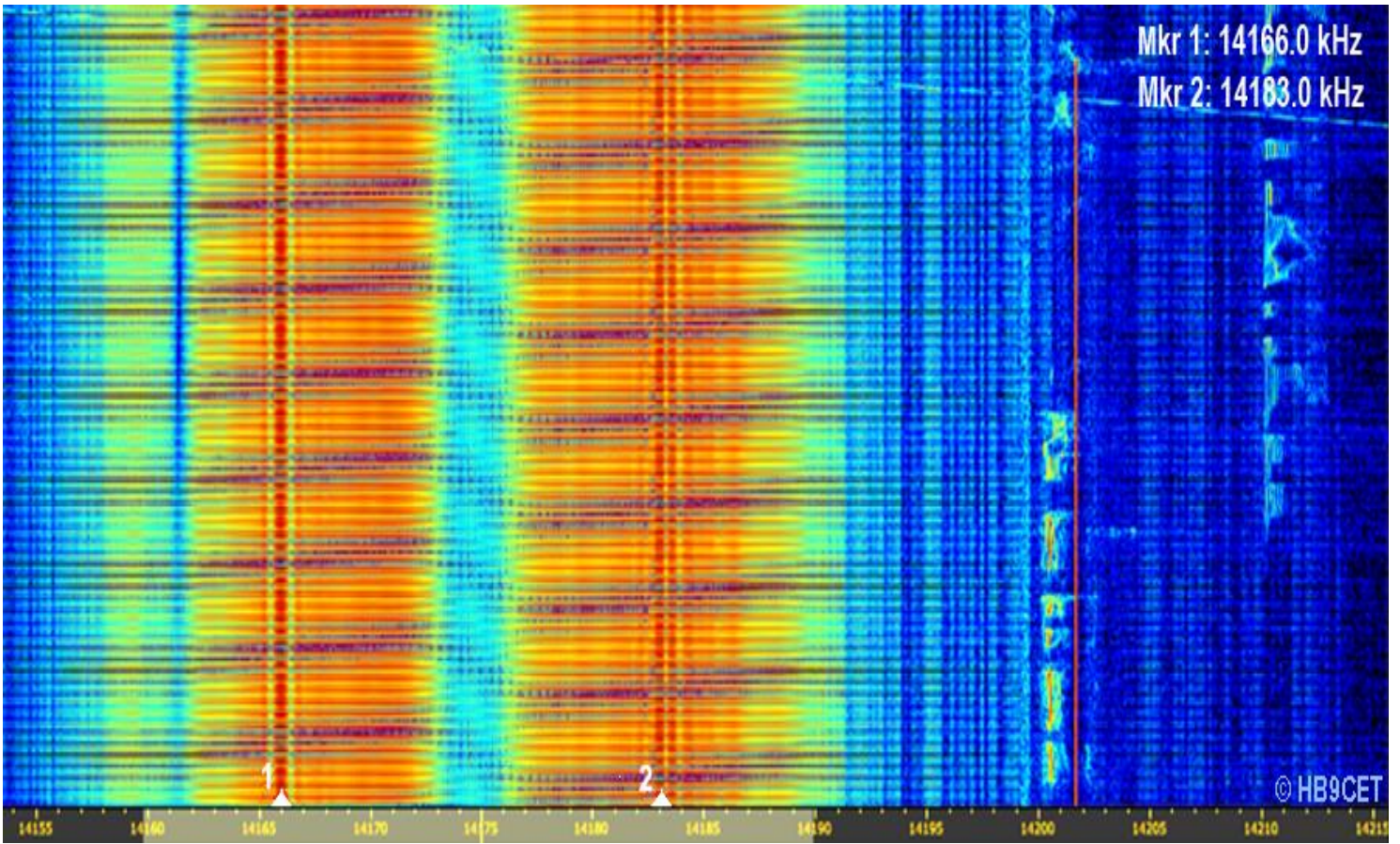
21151.5 kHz CF: XXX. BW ca 10K0E. Long-lasting. Most probably, jammer.



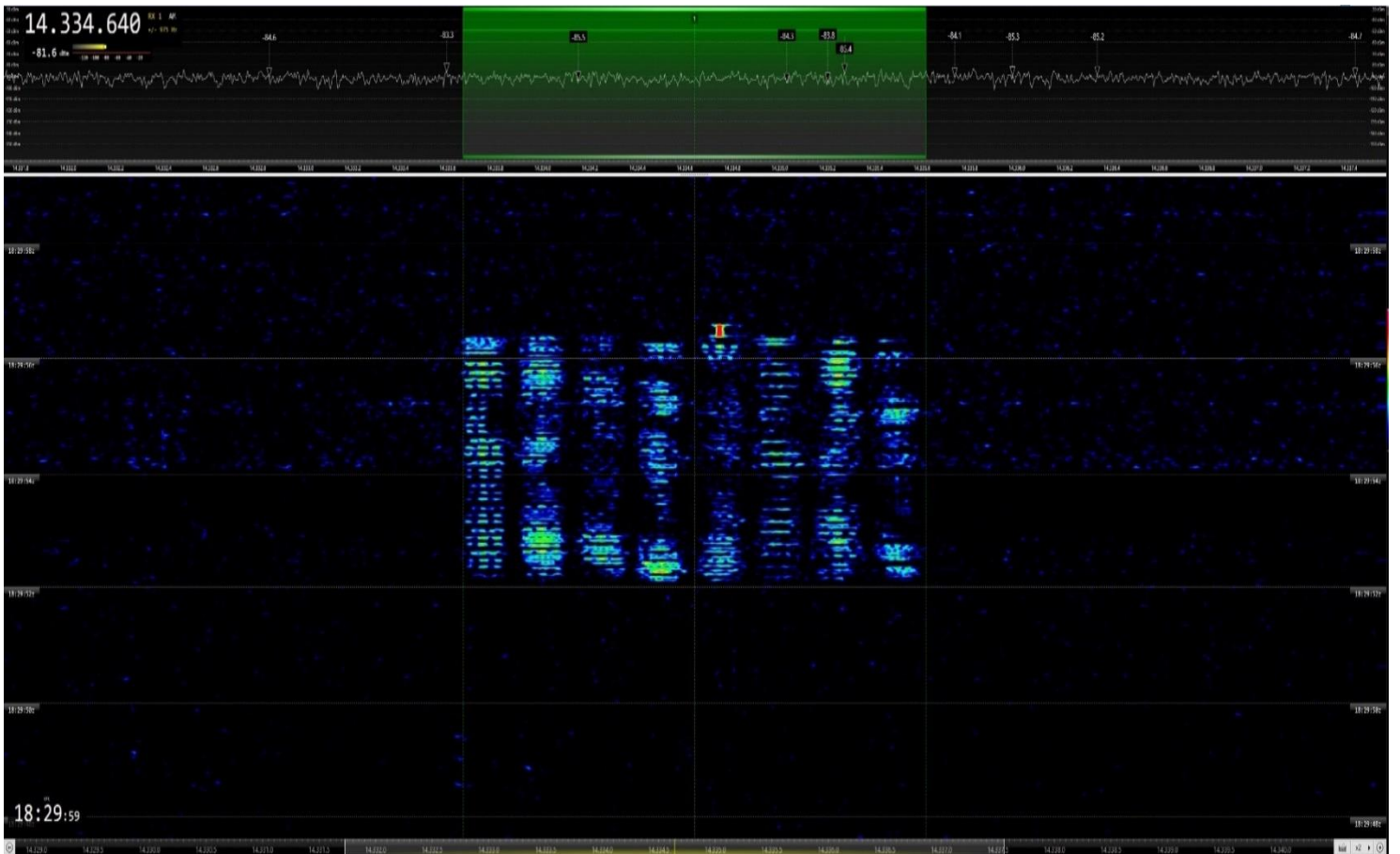
14001.8 kHz CF: STANAG 4285. BW: 2K40E. 2400 Bd. Long-lasting.



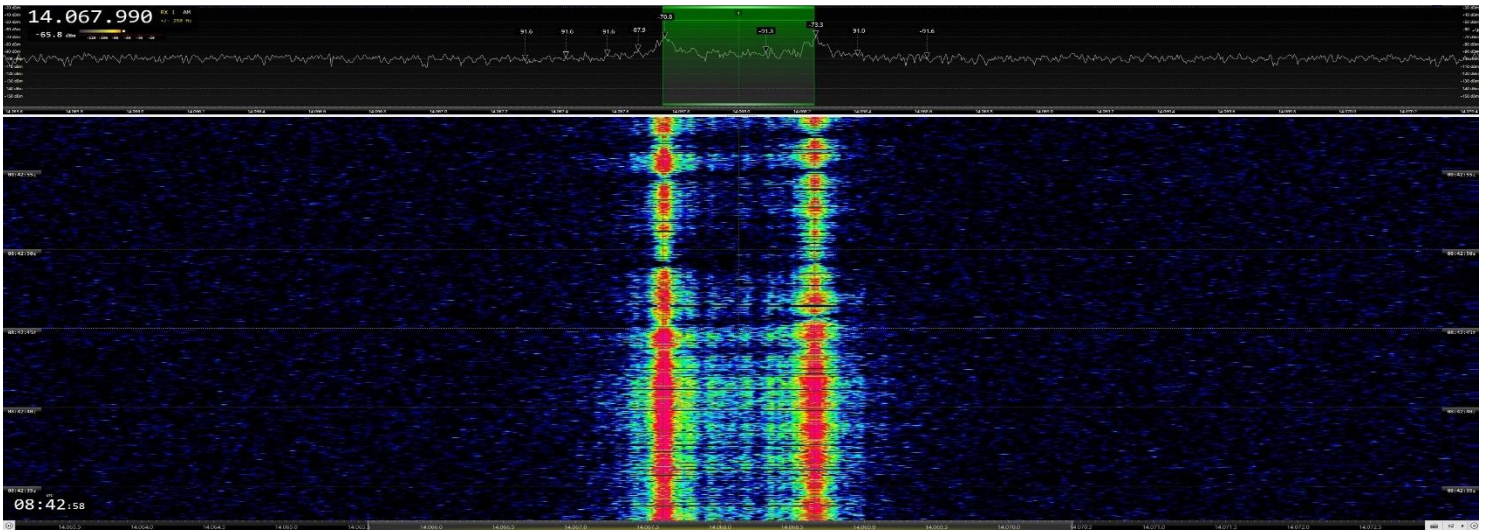
14001.8 kHz CF STANAG 4285. TDoA by Wolf, DK2OM. Boat, AdriaticSea.



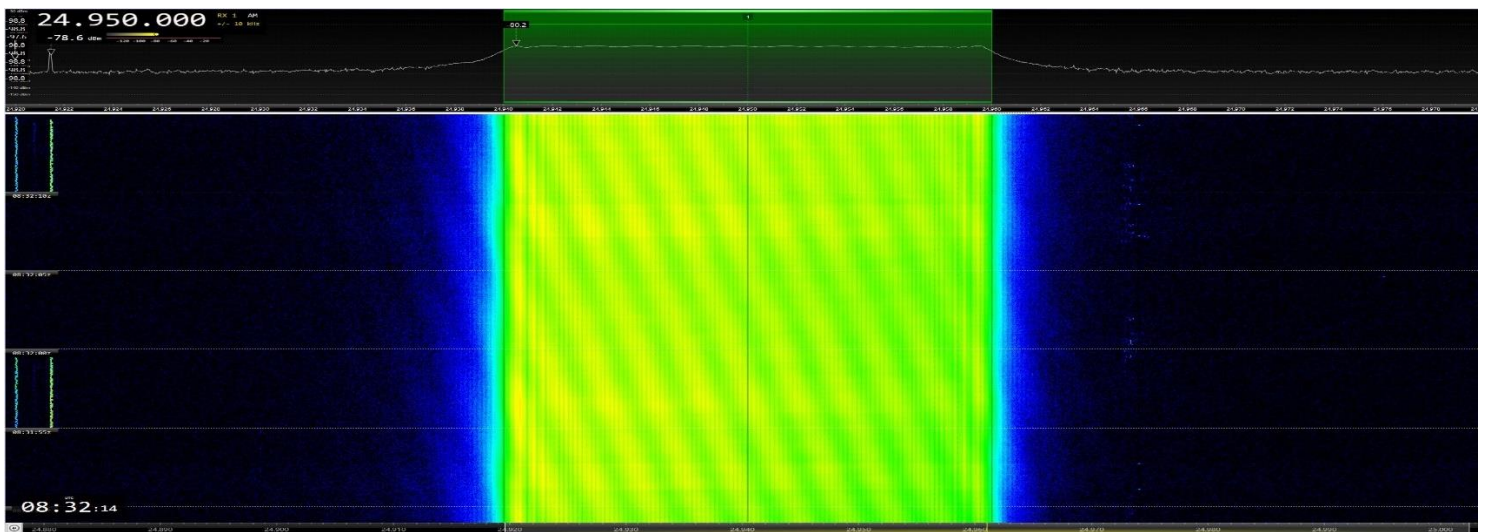
14166 kHz CF + 14183 kHz CF: 2x OTHR Contayner. RUS. BW = 12K0E. 40 sps. By Peter, HB9CET



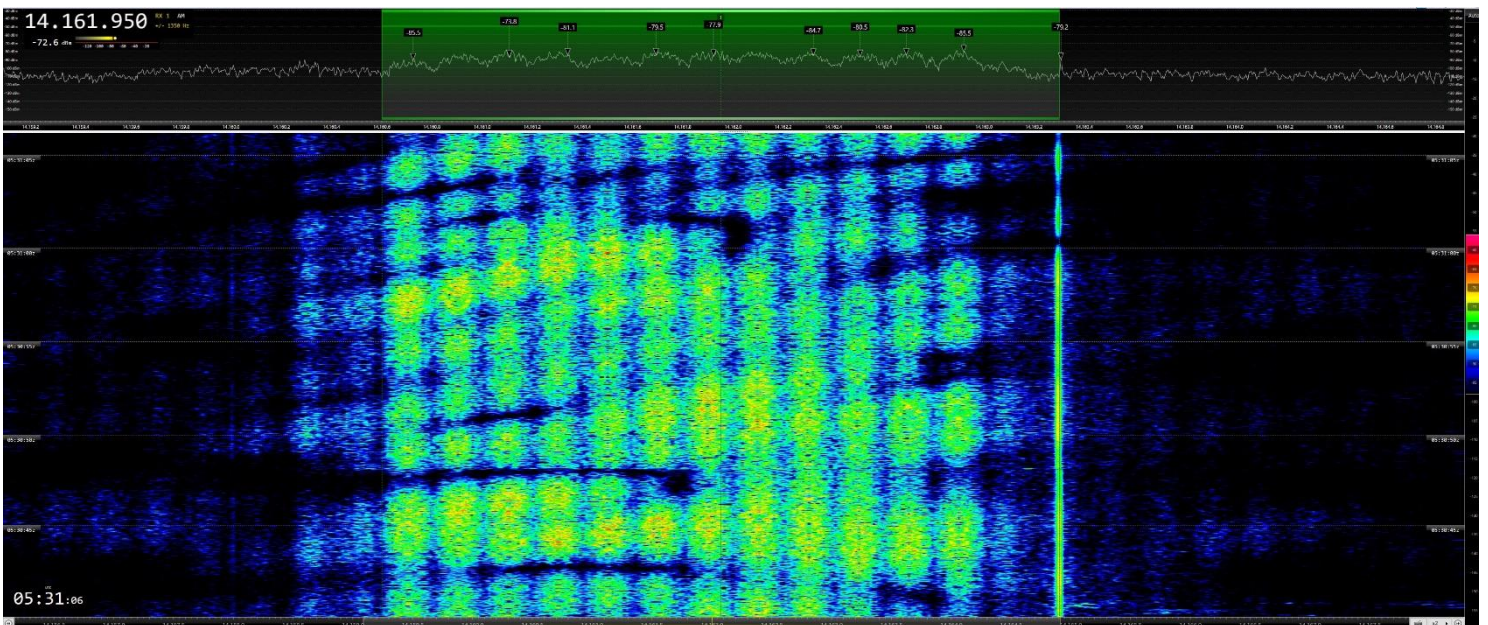
14333 kHz USB: CHN MIL-188-141A-ALE 2G. J7D. BW = 1K75E. 8 x 125Bd



14068 kHz CF. F1B (FSK) Shift = 500 Hz. 100 Baud



24950 kHz CF. British OTHR. G. UK SBA, Cyprus. BW = 20K0E. 25 sps



14162 kHz CF. CIS-12. J7D. BW = 2K70E. 12 x 120 Bd