



Monthly Newsletter - February 2022

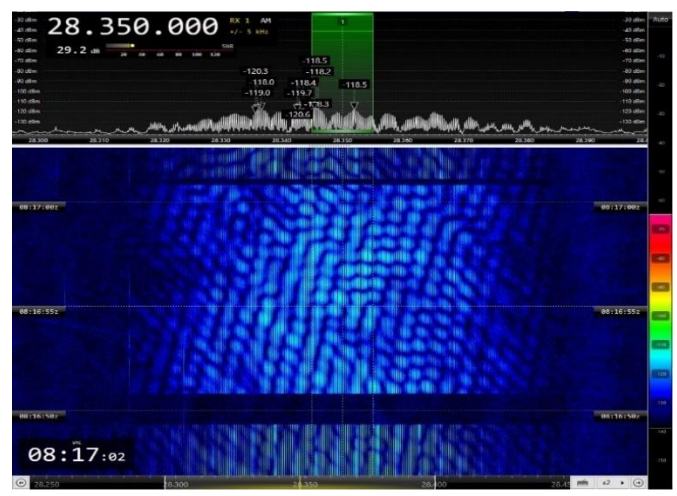
News and info

February started just as another regular month, with its sadly and painful usual batch of intrusions, with nothing special to note. However, this trend was altered during the last week of the month, when we noticed an increase in radar transmissions on our HF amateur radio bands; in particular, those of the Russian OTH radar Contayner (BW = 12 kHz. 40 sps), which was observed on several occasions making up to 3 simultaneous transmissions on the 40 m band (BW = 12 kHz. 40 sps), but also transmitting in the 20 m. and 15 m. bands

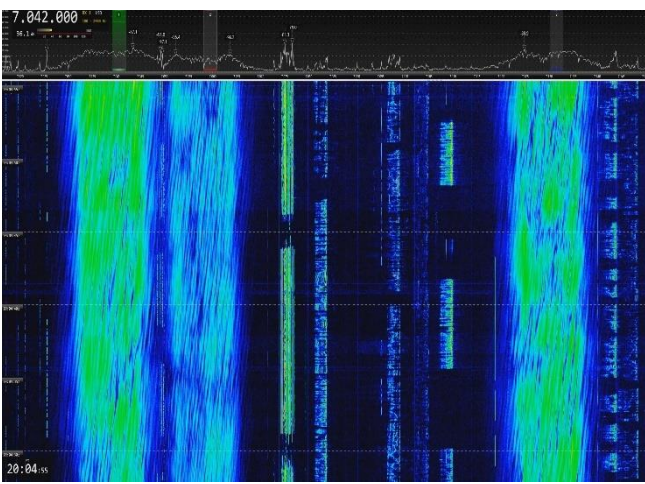
The British OTH radar located at the RAF base in Cyprus (BW = 20 K0E, 50 or 25 sps) was also quite active, especially in the 15 m band, although it was also observed on 10 metres.

As we move into the rising phase of the new solar cycle, with the improvement of the propagation in the high HF bands, in Region 1 we receive more and more frequently the Iranian OTH radar transmitting in the 10m band.

In addition to receiving it in its daily transmissions on 28860 kHz (BW = 150 K0E, alternating 150 and 313 sps bursts), it was also observed jumping along the whole 10 m band, and at the end of the month, transmitting daily on 28150 kHz using the same bandwidth, but with a different sweep rate: 307 and 870 sps. Several transmissions alternating burst of 226 and 333 sps were also reported in this band.



OTHR IRN. BW = 45K0E. bursts alternating 150 and 313 sps. Jumping

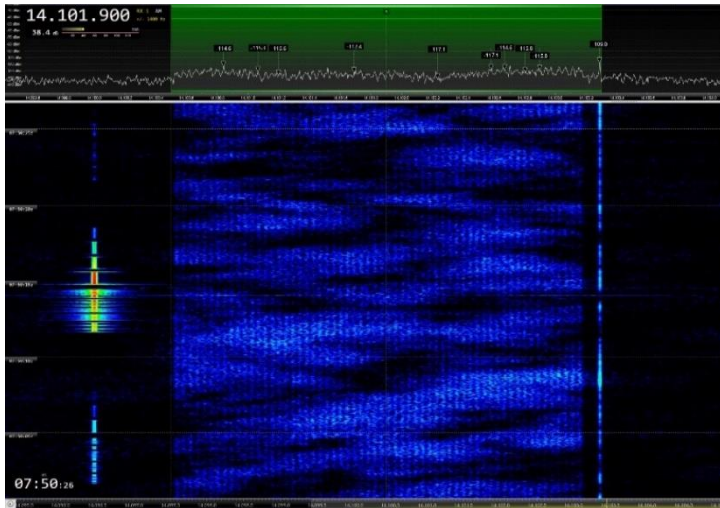


OTHR Contayner (RUS; BW = 12K0E. 40 sps).
3 simultaneous transmissions on 40 m

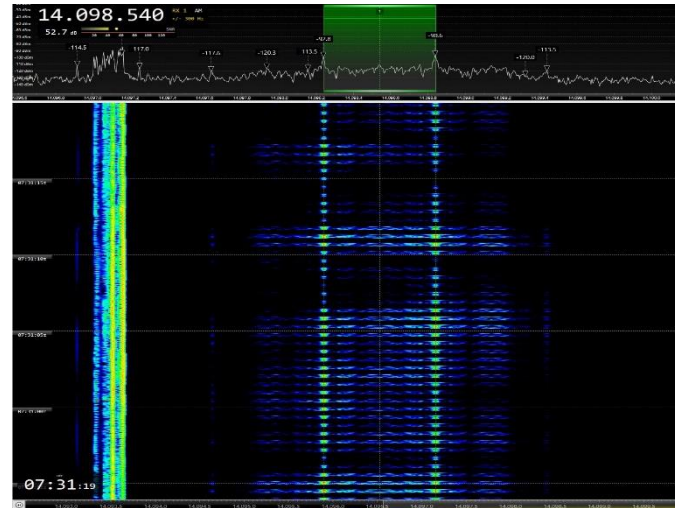
We also received transmissions from several CHN OTHR, like the ones sent by the wideband CHN OTHR. BW = 160K0E. 10 sps bursts, or the ones transmitted by the nicknamed "Foghorn" (short bursts. BW = 10K0E. 41.7, 50, 66.7 and 83.3 sps), or other from the CHN OTHR BW = 10K0E. 40K0E 10 sps

Although radars account for most of the intrusions received each month, we should not downplay the importance of other intrusions that take place in our bands, such as daily transmissions from broadcasting stations. We refer in particular to those caused by the Ethiopia Radio station on 7110 kHz (A3E), or the very frequent reception of the Eritrean "Voice of the Broad Masses" station on 7140.02 kHz (A3E).

Other modes, such as some CIS-## FSK based modes, or CIS-12, CIS-60, CHN-30, DPRK 600 and 1200 and others were received throughout the month and are also a nuisance.

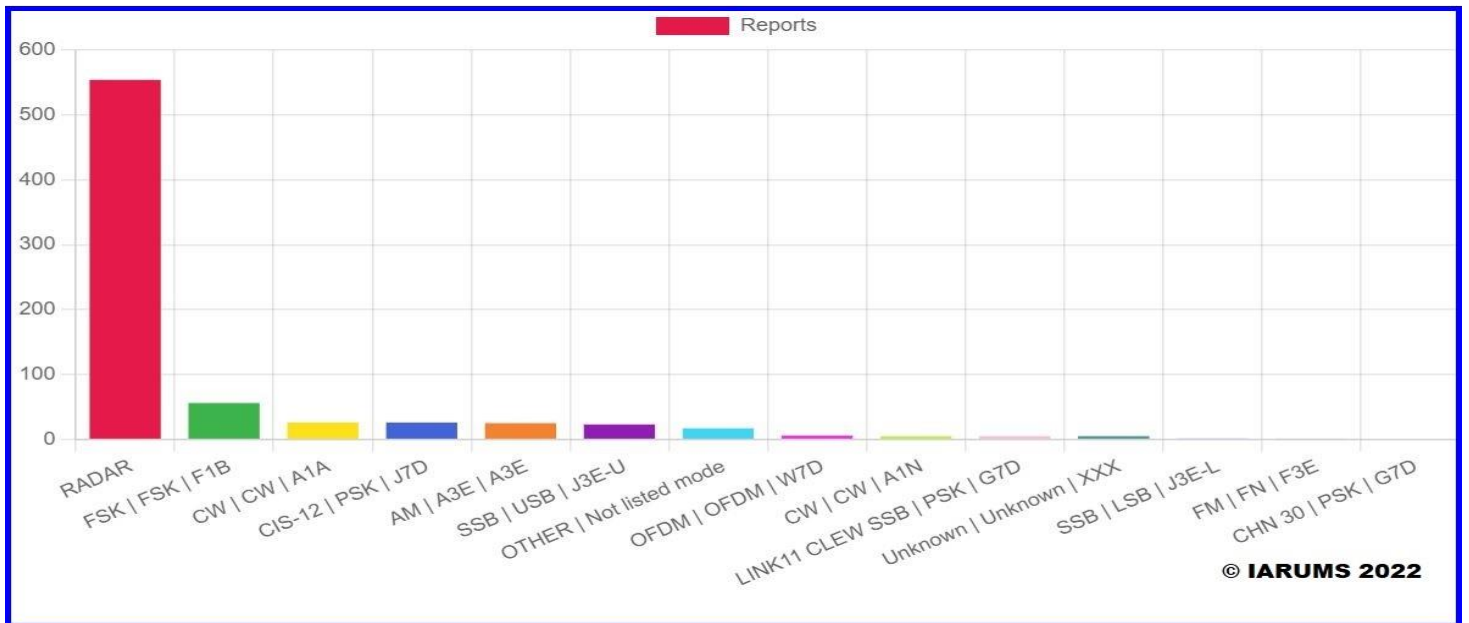


CIS-60 (a.k.a RUS High Data Rate modem). OFDM. BW = 2K80E. 40Bd



DPRK-FSK 600 ARQ. SH = 600 Hz. Bd = 600

Intrusions such as those usually committed by Spanish fishermen and by pirates on 21000 kHz USB (J3E-U), as well as pirate "village radio" type transmissions on 15 and 10 metres are also annoying and illegal.



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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, DL3TRL. Credit to monitors: DO7KE, Kevin; DB4UP, Christoph; DB9EV, Frank; DF5JL, Tom; DL2SCH, Jürgen; DL4IQ, Frank; DJ1HAM, Andre; DB3TA, Alex

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6967	1856	19	02						OTHR
6999	2135	02	02	RUS		FMOP	40	12k	OTHR Contayner
7000	1634	21	02	RUS		FMOP	40	12k	OTHR Contayner
7000	1808	21	02				81,63	ca 90k	OTHR wideband, 5,96s bursts
7006	1618	28	02	RUS		FMOP	40	12k	OTHR Contayner
7007	1752	28	02	RUS		FMOP	40	12k	OTHR Contayner
7011,8	1750	14	02			PSK		2k4	CIS-12
7012	1930	21	02	RUS		FMOP	40	12k	OTHR Contayner
7013	1955	16	02	RUS		FMOP	40	12k	OTHR Contayner
7014	2040	16	02	RUS		FMOP	40	12k	OTHR Contayner
7034	2208	02	02	RUS		FMOP	40	12k	OTHR Contayner
7035	2129	16	02	CHN		FMOP	50	10k	OTHR 5,1s bursts
7050	1147	25	02			J3E-L			RUS/UKR radio war
7055	1602	27	02			J3E-L		2k7	RUS/UKR radio war
7060	2235	27	02	RUS		FMOP	40	12k	OTHR Contayner
7060	1819	28	02	UKR		J3E-L		2k9	UKR/RUS radio war
7061	2255	01	02	RUS		FMOP	40	12k	OTHR Contayner
7063	1820	27	02	RUS		FMOP	40	12k	OTHR Contayner
7065	1807	01	02	RUS		FMOP	40	12k	OTHR Contayner
7065	1823	28	02	UKR		J3E-L		2k9	UKR/RUS radio war
7066	1646	21	02	CHN		FMOP	50	10k	OTHR 5,1s bursts
7085	2100	28	02	RUS		FMOP	40	12k	OTHR Contayner
7086	2223	01	02	RUS		FMOP	40	12k	OTHR Contayner
7087	2350	01	02	RUS		FMOP	40	12k	OTHR Contayner
7089	1820	27	02	RUS		FMOP	40	12k	OTHR Contayner
7090	1824	28	02	UKR		J3E-L		2k9	UKR/RUS radio war
7095	1922	21	02	RUS		FMOP	40	12k	OTHR Contayner
7103	2050	10	02	RUS		FMOP	40	12k	OTHR Contayner
7108	1820	27	02	RUS		FMOP	40	12k	OTHR Contayner
7110	1758	01	02	ETH		A3E		9k	Radio Ethiopia
7115	2145	04	02	RUS		FMOP	40	12k	OTHR Contayner
7118	1817	18	02	RUS		FMOP	40	12k	OTHR Contayner
7120	2235	27	02	RUS		FMOP	40	12k	OTHR Contayner
7125	2350	01	02	RUS		FMOP	40	12k	OTHR Contayner
7128	0019	02	02	RUS		FMOP	40	12k	OTHR Contayner
7133	2100	28	02	CHN		FMOP	50	10k	OTHR 5,1s bursts
7137	2102	21	02	RUS		FMOP	40	12k	OTHR Contayner
7138	2100	28	02	CHN		FMOP	50	10k	OTHR 5,1s bursts
7142	2124	16	02	CHN		FMOP	50	10k	OTHR 5,1s bursts
7149	1640	28	02	RUS		FMOP	40	12k	OTHR Contayner
7157	2116	16	02	CHN		FMOP	50	10k	OTHR 5,1s bursts
7159	2040	16	02	CHN		FMOP	66,67	10k	OTHR 3,8s bursts
7171	1840	27	02	RUS		FMOP	40	12k	OTHR Contayner
7172	2052	16	02	CHN		FMOP	50	10k	OTHR 5,1s bursts

DARC; Daniel, DL3TRL. Credit to monitors: DO7KE, Kevin; DB4UP, Christoph; DB9EV, Frank; DF5JL, Tom; DL2SCH, Jürgen; DL4IQ, Frank; DJ1HAM, Andre; DB3TA, Alex

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7174	2038	16	02	CHN		FMOP	66,67	10k	OTHR 3,8s bursts
7175	1733	01	02	CHN		FMOP	66,67	10k	OTHR 3,8s bursts
7180	2145	04	02	RUS		FMOP	40	12k	OTHR Contayner
7180	2103	08	02	RUS		FMOP	40	12k	OTHR Contayner
7182	1733	01	02	CHN		FMOP	66,67	10k	OTHR 3,8s bursts
7183	1908	17	02	CHN		FMOP	66,67	10k	OTHR 3,8s bursts
7184	2303	03	02	RUS		FMOP	40	12k	OTHR Contayner
7191	2216	02	02	CHN		FMOP	66,67	10k	OTHR 3,8s bursts
7191	1752	28	02	RUS		FMOP	40	12k	OTHR Contayner
7193	2223	01	02	RUS		FMOP	40	12k	OTHR Contayner
7194	1735	11	02	RUS		FMOP	40	12k	OTHR Contayner
7195	1715	25	02	RUS		FMOP	40	12k	OTHR Contayner
14151	1657	27	02	RUS		FMOP	40	12k	OTHR Contayner
18148	0938	20	02	CHN		FMOP	41,67	10k	OTHR 6,1s bursts
18165	1017	06	02	CYP			50	20k	OTHR Pluto Cyprus
18172	1308	27	02	RUS		FMOP	40	12k	OTHR Contayner partially in 17m band
21110	1014	26	02	CYP		FMCW	50	20k	OTHR Pluto Cyprus
21161	0825	20	02	CHN		FMOP	66,67	10k	OTHR 3,8s bursts
21195	1156	15	02	CYP			50	20k	OTHR Pluto Cyprus
21288	0848	20	02	CHN		FMOP	41,67	10k	OTHR 6,1s bursts
21304	0848	20	02	CHN		FMOP	41,67	10k	OTHR 6,1s bursts
21310	0735	19	02	CYP			50	20k	OTHR Pluto Cyprus
21351	1330	01	02	RUS		FMOP	40	12k	OTHR Contayner
21374	0954	12	02						OTHR
21438	0855	06	02	RUS	RCV	A1A		200	RUS Navy Sevastopol
28150	0956	27	02	IRN			307/870	46k	Iranian OTHR

IRTS; Michael, EI3GYB

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3500	1903	14	2	E or MM		USB			Spanish fishermen with Galician accent, nearly daily. Huge signals.
3501	1900	Daily	2	I		USB			Male voice in Italian, sometimes English. Medium to weak signal. Daily by nightfall, on and off, until about 2200z. Sometimes other stations join in and make comments.
3645	350	27	2	UKR/RUS		LSB			Several male voices shouting slogans. "Russki idiota" "Russki fascista" "Kalibre".
3672	2105	28	2	UKR/RUS		LSB			Non stop playing of Ukrainian national anthem. Very loud.
3685	1740	24	2	UKR/RUS		LSB			Shouting of propaganda slogans in Russian or Ukrainian. " Svobodna Ukraina", "Putin novy Hitler". Several stations involved. Male and female voices. Total chaos. Loud and persistent.
3689	2035	27	2			LSB			Female voice shouting slogans in Russian and Ukrainian. "Russki fascista" "Putin dictator" "rassiski soldata" "Slava Ukrainski army"

IRTS; Michael, EI3GYB									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3690	2045	27	2			LSB			Moved here from 3689 kHz. Same female voice. "Svobodna Ukraina". Moves on to 3683 kHz later. Goes on for another hour.
3752	Daily	4	2	F		LSB			DQRM by a male French voice. Same as in the last 18 months or so- no change. Also 3760 and 3762 kHz. Daily as of around 1500 to about 1900z.
6990	1910	25	2			RADAR			Radar from 6990 to 7013 kHz. Medium signal. Persistent.
6998	2030	27	2			RADAR			Radar from 6998 to 7028 kHz. Medium strength. Persistent.
7000	335	27	2			RADAR			Radar from 7000 to 7025 kHz. Strong and persistent.
7000	1710	22	2	E or MM		USB			Spanish fishermen chatting. Strong.
7000	1600	15	2	INS		USB			Indonesian village radio. Group of men. Medium signals, persistent.
7000	2025	15	2	B		USB			Brazilian pirates. Male and female voices. Also heard 26th at 2130z.
7000	1945	16	2			RADAR			Radar from 7000 to 7025 kHz. Very strong and persistent.
7000	1320	16	2	I		USB			Male voice in Italian and sometimes English. On and off. Very weak. Heard on a few days.
7005	1715	22	2	INS		LSB			Indonesian village radio. Several male voices chatting. Weak.
7018	2055	25	2			RADAR			Radar from 7018 to 7030 kHz. Medium signal, persistent.
7025	2000	27	2			RADAR			Radar from 7025 to 7070 kHz. Persistent and strong.
7050	1220	25	2	RUS/UKR		LSB			Rebroadcasting of a speech held by Vladolf Putler. Huge signal.
7053	1755	24	2	RUS		RADAR			"Sunflower" radar from 7053 to 7105 kHz, strong and persistent. Also heard 1st at 1815z, 26th at 1825z and 27th at 1830z.
7055	1725	2	2	RUS/UKR		LSB			Russian-Ukrainian radio war. Shouting of slogans, patriotic music, rebroadcasting of Russian radio programs. Daily all day long. Playing Western anti war songs on 28th after 2000z: John Lennon "Give peace a chance!" is played about a dozen times, followed by playing endless repetitions of "Sag mir wo die Blumen sind" until transmission ends at 0100z on March, 3rd after 5 hours.
7060	1620	28	2	RUS/UKR		LSB			Male voice shouting slogans in Russian and Ukrainian. Very strong. "Russki occupanta swinja" "Russki pederadski" "Smirz russki occupanta!" Patriotic music between.
7100	1630	28	2	UKR/RUS		LSB			Male voice shouting slogans in English, Russian and Ukrainian. "Glory to Ukraine" "Slava Ukraina" "Putina khyila". Other stations play the Russian national anthem at the same time.

IRTS; Michael, EI3GYB									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7110	1720	22	2	ETH		AM			Radio Ethiopia. Strong signal. Daily.
7113	1930	22	2	RUS		RADAR			"Sunflower" radar from 7113 to 7141 kHz. Strong and persistent. Also on 25th at 1905z and the 27th at 2000z.
7135	1530	24	2			RADAR			Radar from 7135 to 7151 kHz. Strong and persistent.
7138	2055	28	2			PSK			Link-11 Clew. Medium strength, persistent.
7140	1725	23	2	ERI		AM			Radio Eritrea. Medium signal.
7150	1435	8	2			RADAR			Radar from 7150 to 7162 kHz. On and off.
7150	2130	26	2			RADAR			Radar from 7150 to 7167 kHz. Medium strength.
7168	1340	8	2			LSB			DQRM: Loud singing, replaying of QSO's. Racket goes on for over an hour.
7186	1820	26	2			RADAR			Radar from 7186 to 7201 kHz. Strong and persistent.
7188	1400	24	2			RADAR			Radar from 7188 to 7220 kHz. Strong and persistent.
14272	1200	2	2			PSK			Strong and persistent.
14282	1320	14	2			RADAR			Radar from 14282 to 14295 kHz. Very strong and persistent.
18145	1305	27	2	British Cyprus		RADAR			"Pluto" radar from 18145 to 18195 kHz. Huge and persistent.
18150	1200	17	2	British Cyprus		RADAR			"Pluto" radar from 18150 to 14181 kHz. Huge signals, persistent.
18150	1045	5	2	British Cyprus		RADAR			"Pluto" radar from 18150 to 18190 kHz.
21350	1320	14	2	British Cyprus		RADAR			"Pluto " radar from 21350 to 21283 kHz. Monster signals, persistent.
21365	1325	4	2	British Cyprus		RADAR			"Pluto" radar from 21365 to 21405 kHz. Huge signals, persistent.
21408	1245	16	2	British Cyprus		Radar			"Pluto" radar from 21408 to 21430 kHz.
21438	1210	10	2	RUS/ UKR		CW			Russian navy, Sevastopol. Medium to strong signal. Almost daily. "Zapadni"
28840	1315	4	2	IRN		RADAR			Radar from 28840 to 28870 kHz in AM. Medium signal, persistent.

OeVSV; Christoph, OE1VMC									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7062	1820	27	02	RUS		RADAR	40	12K0E	

OeVSV; Christoph, OE1VMC

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7088	1820	27	02			RADAR	40	12K0E	Switched off at 18:30.
7180	1645	09	02	RUS		RADAR	40	12K0E	heading 30-100° signal peak -29dBm
21136	1052	10	02			RADAR	40	10K0E	
21195	1201	15	02			RADAR	50	20K0E	Heading 110° (from JN78XK), Strength: -26dBm
21375	1051	04	02	G		RADAR		20K0E	
21438	0845	12	02	RUS		A1A			QTCs RUS ciphered
21438	0923	14	02	RUS		A1A			QTCs RUS
28170	0838	12	02	CHN		A3E		9K0E	Asia AM pirates
28305	0949	04	02	G		RADAR		60K0E	
28445	1212	10	02	G		RADAR		20K0E	
28525	1202	10	02	INS		A3E		5K0E	East Asia Taxi, fishing man ??
28860	1053	04	02	IRN		RADAR		60K0E	
28860	0822	13	02	IRN		RADAR	150	46K0E	
28860	0903	14	02			RADAR		46K0E	
28860	1220	14	02	IRN		RADAR		46K0E	
28860	1226	14	02	IRN		RADAR		100K0E	
29450	1223	14	02	IRN		RADAR		100K0E	

PZK; SP3AMO, SP5GNI

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7005.0	1610	23	02			RADAR	40	12K0E	RSQ 595
7006.0	1812	28	02			RADAR	40	12K0E	RSQ 595 18.17 UTC QRT
7062.0	1620	06	02			RADAR		10K0E	S9
7116.0	2102	02	02			RADAR	40	12K0E	RSQ 595 [21.14 UTC QRT]
7178.0	1210	17	02	RUS		PSK		2K9	CIS-12 S8
7194.0	1708	20	02			RADAR	40	12K0E	Also 28.02 at 18.25
14140.0	1520	11	02			RADAR		12K0E	S9+
14160.0	1055	17	02			RADAR		12K0E	S9 also at 14195.0
14170.0	1600	06	02			RADAR		10K0E	continous
14185.0	1140	07	02			RADAR		8K0E	Burst
14187.0	1300	03	02			RADAR		8K0E	short burst
14188.0	0708	23	02			RADAR	40	12K0E	RSQ 595
14190.0	0745	24	02			RADAR	40	12K0E	RSQ 595
14192.0	1520	03	02			RADAR	40	12K0E	RSQ 595 +20dB
14193.0	1105	06	02			RADAR		8K0E	Burst
14200.0	0750	21	02			RADAR	50	12K0E	
14239.0	0915	11	02			RADAR		40K0E	S7
14274.0	1230	02	02	RUS		PSK		2K9	CIS-12 S9+10dB
14313.0	1008	15	02			RADAR		10K0E	S7 Bursts and on 14333.0
14320.0	1050	21	02			RADAR		10K0E	S6 Bursts
14332.0	1135	10	02			RADAR		10K0E	S7 Burst
14342.0	1045	28	02			RADAR		8K0E	S6 Burst
18083.0	0915	28	02			RADAR	50	10K0E	Bursts
18150.0	0900	23	02			RADAR		10K0E	S6 Bursts

PZK; SP3AMO, SP5GNI									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
18160.0	0908	03	02			RADAR		10K0E	S7 bursts also 18140.0
18171.0	1130	14	02			RADAR		10K0E	S9 partially in the band vd vt
21130.0	1130	14	02			RADAR		10K0E	Burst
21170.0	1425	4	02			RADAR	25	20K0E	
21279.0	0724	25	02	CHN		RADAR	50	10K0E	RS 47 Bursts
21315.0	0827	10	02			RADAR	66	10K0E	RSQ 595
21323.0	0820	21	02			PSK	120	2k70E	
21338.0	0725	11	02	CHN		RADAR	50	10K0E	Bursts
21350.0	1112	22	02	G		RADAR		20K0E	S9 +20!
21351.0	0955	15	02			RADAR		10K0E	Burst
21355.0	0905	10	02			RADAR	50	20K0E	RSQ 595
21370.0	0923	04	02	G		RADAR		20K0E	S9
21375.0	0900	03	02			RADAR		20K0E	S9
21378.0	0917	02	02			RADAR		10K0E	S6 bursts and 21277.0
21385.0	0714	15	02			RADAR	50	20K0E	RSQ 595 [07.14 UTC QRT]
21385.0	1325	04	02	G		RADAR		20K0E	S9+15dB
21391.0	0910	06	02			RADAR		10K0E	Burst
21432.3	1205	02	02			FSK		2K5	S5 8 spectral lines
28120.0	1130	10	02	IRN		RADAR		60K0E	S8
28150.0	1110	22	02	IRN		RADAR		80K0E	S9
28200.0	0900	23	02	IRN		RADAR		60K0E	S7 also at 28010.0
28310.0	1340	04	02	IRN		RADAR	300	46K0E	vd vt
28520.0	1130	07	02	IRN		RADAR		45K0E	S5
28550.0	1220	09	02	IRN		RADAR		45K0E	S5
28860.0	0900	02	002	IRN		RADAR	150/300	60K0E	S7 vd vt
29395.0	1040	28	02	IRN		RADAR		60K0E	S7 also at 28150.0
29450.0	1045	15	02	IRN		RADAR		80K0E	S9 vd
29650.0	1133	14	02	IRN		RADAR		60K0E	S6 vd vt

REF; Francis, F5MIU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21438	0858	2	02			cw		3kHz !	Russian Navy HQ Sevastopol S9+ (every days) cw modulated
14255	0902		02			fmcw	10	50kHz	OTH Radar pulsed 100ms, S9+10
18138	0905	4	02			fmcw		10kHz	OTH Radar pulsed 22 to 120ms, S8 intermittent
14140	0903	7	02			fmcw	10	50kHz	OTH Radar pulsed 100ms, S9
14150	0849	9	02			fmcw	10	150kHz	OTH Radar pulsed 100ms, S9+
7057	1734	9	02			fmcw	40	20kHz	OTH Radar pulsed 25ms, S9+
21350	0910	10	02			fmcw	50	25kHz	OTH Radar pulsed 20ms, S9+10
14120	0848	11	02			fmcw	10	50kHz	OTH Radar pulsed 100ms, S9+
14160	1720	11	02			fmcw	20	20kHz	OTH Radar pulsed 50ms, S9+10
14190	1725	11	02			fmcw	20	20kHz	OTH Radar pulsed 50ms, S9+10 Synchron
14310	1725	11	02			fmcw	20	20kHz	OTH Radar pulsed 50ms, S9+10 Synchron.
14250	0847	15	02			fmcw	10	50kHz	OTH Radar pulsed 100ms, S9+

REF; Francis, F5MIU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21310	0841	19	02			fmcw	50	20kHz	OTH Radar pulsed 20ms, S9+10
21170	0844	19	02			fmcw	50	15kHz	OTH Radar pulsed 20ms, S7
7195	1711	20	02			fmcw	40	20kHz	OTH Radar pulsed 25ms, S9+20
14190	0852	21	02			fmcw	40	20kHz	OTH Radar pulsed 25ms, S9+
7195	1810	22	02			fmcw	40	20kHz	OTH Radar pulsed 25ms, S9+15dB
21438	0851	24	02			cw			Russian Navy HQ Sevastopol S9+
21170	0845	25	02			fmcw	40	20kHz	OTH Radar pulsed 25ms, S9+20
14115	0850	25	02			fmcw	40	20kHz	OTH Radar pulsed 25ms, S9+
18170	0942	27	02			fmcw	40	20kHz	OTH Radar pulsed 25ms, S9+20dB
28150	0957	27	02			fmcw		40kHz	OTH Radar pulsed 300 / 400Hz, S7

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3510.0	1725	01	02			J3E		2K70E	USB 'The Air Horn'. Daily. Also heard 081740z, 162035z.
3756.0	1725	01	02			J3E		1K70E	USB 'The Pip'. Daily. Also heard 081741z, 162035z.
7006.0	1455	21	02			J7D		2K70E	USB 7004.0 / CIS-12
7008.0	0722	16	02			F1B		250	FSK
7012.0	1738	08	02			J7D		2K70E	USB 7010.0 / CIS-12
7013.0	2222	16	02	RUS		P0N	40	12K0E	Container pulse radar
7014.8	1551	16	02					3K00E	Unidentified
7021.0	0746	10	02			J7D		2K70E	USB 7019.0 / CIS-12. Also heard 220807z
7032.0	0852	07	02			J7D		2K70E	USB 7030.0 / CIS-12
7046.0	1600	02	02			F1B		200	FSK. Also heard 161808z, 211457z
7062.0	0830	02	02	RUS		H3E		3K00E	USB (full carrier) Numbers station, female voice, every Wednesday. Also heard 090830z, 160830z.
7063.0	1721	06	02	RUS		P0N	40	12K0E	Container pulse radar
7072.0	0939	09	02			J7D		2K70E	USB 7070.0 / CIS-12
7081.0	0800	02	02			F1B		250	FSK
7099.0	1809	16	02			F1B		200	FSK
7110.0	1719	01	02	ETH	R. Ethiopia	A3E			BC daily. Also heard 021559z, 041641z, 061723z, 081736z, 121617z, 171746z
7118.0	1809	18	02	RUS		P0N	40	12K0E	Container pulse radar
7125.0	1854	07	02	RUS		P0N	40	12K0E	Container pulse radar
7128.0	1632	02	02	RUS		P0N	40	12K0E	Container pulse radar
7138.0	1735	08	02	RUS		P0N	40	12K0E	Container pulse radar
7140.02	1552	02	02	ERI	VoBM	A3E			BC daily. Also heard 061724z, 181559z
7159.0	0807	11	02			J7D		2K40E	USB 7159.0 / Link 11 CLEW. Also heard 150738z, 161357z
7167.0	1639	04	02	RUS		P0N	40	12K0E	Container pulse radar
7173.0	1633	02	02	RUS		P0N	40	12K0E	Container pulse radar
7175.0	1602	18	02	CHN		F3N	50	10K0E	FMCW radar bursts

RSGB; Richard, G4DYA									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7180.0	1811	18	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
7182.0	1721	01	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
7191.0	1645	04	02	RUS		P0N	40	12K0E	Container pulse radar
7193.0	0832	01	02	RUS	RDL	F1B		200	FSK. Ident in F1A. Also heard 030904z, 040824z, 140839z,170817z, 200907z, 240819z
7199.0	1541	02	02			F1B		200	FSK
7199.994	1030	08	02			A3E			BC. 1030-1058z daily.
14033.0	0831	02	02	CHN		F3N	10	40K0E	FMCW radar
14034.0	0906	04	02	CHN		F3N	10	40K0E	FMCW radar
14044.0	0829	08	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14045.0	0914	09	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14049.0	0841	14	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14050.0	0840	01	02	CHN		F3N	83.3	10K0E	FMCW radar bursts
14062.0	0906	03	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14098.5	0751	10	02					1K20E	Unidentified bursts
14101.9	0829	15	02			J7D		2K80E	USB 14100.0 / CIS-60. Also heard 160756z.
14116.0	0812	17	02			F1B		250	FSK
14123.0	0826	28	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14143.0	0958 1123	01 06	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14143.0	0848	07	02	CHN		F3N	10	40K0E	FMCW radar
14144.0	0825	08	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14145.0	0849	19	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14153.0	1000	01	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
14155.0	1341	22	02	RUS		P0N	40	12K0E	Container pulse radar
14178.0	0910	08	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14183.0	0911	08	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14185.0	0943	09	02	CHN		F3N	10	160KE	FMCW radar bursts
14193.0	0851	24	02	CHN		F3N	83.3	10K0E	FMCW radar bursts
14198.3	1336	16	02			F1D		1K20E	Unident. FSK bursts, 600 Hz shift
14218.0	0849	22	02			B7D		6K60	DSB / CIS-12
14237.0	0900	05	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14239.0	0835	11	02	CHN		F3N	10	40K0E	FMCW radar
14252.0	0843	04	02	CHN		F3N	10	40K0E	FMCW radar
14253.0	0825	15	02	CHN		F3N	10	40K0E	FMCW radar
14255.0	0851	07	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14257.0	0828	01	02	CHN		F3N	10	40K0E	FMCW radar
14274.0	1542	02	02			J7D		2K70E	USB 14272.0 / CIS-12
14278.0	0954	28	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14281.0	0829	05	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14285.0	0846	17	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14290.0	0830	05	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14294.0	0849	21	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14297.0	0924	03	02	CHN		F3N	47.6	10K0E	FMCW radar bursts

RSGB; Richard, G4DYA									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14298.0	0833	15	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14298.5	0801	09	02			F1D		1K20E	Unident. FSK bursts 600 Hz shift. Also heard 160801z.
14307.0	0846	01	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
14307.0	0832	05	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14309.0	0845	01	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
14314.0	0845	04	02	CHN		F3N	50	10K0E	FMCW radar bursts
14319.0	0848	21	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14321.0	0753	10	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14323.0	0815	02	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14325.0	0827	08	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14327.0	1014	28	02	CHN		F3N	50	10K0E	FMCW radar bursts
14329.0	0823	11	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14333.0	0827	08	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14334.0	0942	09	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14337.0	0830	01	02	CHN		F3N	83.3	10K0E	FMCW radar bursts
14342.0	0951	28	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14343.0	0816	09	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
14347.0	1015	28	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
14390.0	0912	09	02	CHN		F3N	10	160KE	FMCW 14310-14470
18079.0	0949	28	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
18080.0	0821	08	02	CHN		F3N	50	10K0E	FMCW radar bursts
18083.0	0835 0824	02 28	02	CHN		F3N	50	10K0E	FMCW radar bursts
18113.0	0849	24	02	CHN		F3N	50	10K0E	FMCW radar bursts
18116.0	0859	07	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
18138.0	0839	04	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
18140.0	0919	03	02	CHN		F3N	50	10K0E	FMCW radar bursts
18160.0	0918	03	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
18169.0	1555	18	02	RUS		P0N	40	12K0E	Container pulse radar
18170.0	1236	16	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
18171.0	1218	10	02	RUS		P0N	40	12K0E	Container pulse radar
18172.0	0821	19	02	RUS		P0N	40	12K0E	Container pulse radar
21096.0	0812	02	02	CHN		F3N	50	10K0E	FMCW radar bursts
21109.0	0956	01	02	RUS		P0N	40	12K0E	Container pulse radar
21100.0	0913	28	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21115.0	0810	17	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21130.0	0908	13	02	RUS		P0N	40	12K0E	Container pulse radar
21151.0	0828	11	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
21155.0	0911	15	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
21191.0	0830	28	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
21245.0	0933	06	02	CHN		F3N	66.7	10K0E	FMCW radar bursts
21300.0	0846	22	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21310.0	0809	19	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21325.0	1004	22	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21345.0	1021	13	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus

RSGB; Richard, G4DYA

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21350.0	1007	03	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21370.0	0917	04	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus. Also heard 161402z
21375.0	0905	03	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21385.0	1332	04	02	G		F3N	25	20K0E	FMCW radar, UK SBA, Cyprus
21391.0	0811	19	02	CHN		F3N	41.7	10K0E	FMCW radar bursts
21395.0	0749	10	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21408.0	0759	10	02	RUS		P0N	40	12K0E	Container pulse radar
21410.0	1128	01	02	RUS		P0N	40	12K0E	Container pulse radar
21419.0	0938	06	02	CHN		F3N	50	10K0E	FMCW radar bursts
21420.0	1235	16	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21425.0	0737	10	02	RUS		P0N	40	12K0E	Container pulse radar
21430.0	0924	13	02	G		F3N	50	20K0E	FMCW radar, UK SBA, Cyprus
21438.0	0845	21	02	RUS	RCV	A1A			Morse. Also heard 221002z, 280842z
28515.0	1122	07	02	IRN		P0N	313	45K0E	Pulse radar bursts
29610.0	0828	04	02	G		F3N	25	20K0E	FMCW radar, UK SBA, Cyprus

RSK; Kamweti, 5Z4BV

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7000	vt	vd	2	KEN		PSK		2K5E	STANAG 4285
7085	vt	vd	2	KEN		J3E-U		2K5E	Vernacular/Kiswahili QSO
7110	vt	dly	2	ETH		A3E		12kE	Radio Ethiopia National Service
7140	vt	vd	2	ERI		A3E		10kE	Radio Eritrea Voice of Broad Masses
7150	vt	vd	2	KEN		MFSK	128	2k2	2G ALE Call transmission
14100	1201	22	2			j3E-U		2K5E	Vernacular/Arabic QSO
21206	1206	22	2			j3E-U		2K0E	Wavering chanting voice

SRAL; Pekka, OH2BLU

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7 MHz	1545-0540	*	2	RUS		RADAR	40sps	13k0E	*) Days: 2. 3. 4. 6. 8. - 11. 13. 14. 17. 20. - 28. (WebSDR 23d)
7 MHz	0615-1815	*	2	RUS		RADAR	10sps	10k0E	*) Days: 3. 5. 6. 8. 10. 11. 14. - 28.
7 MHz	1340-1900	*	2	CHN		RADAR	50/67sp s	10k0E	*) Days: 3. 12. 15. 16. 18. 20. 22. 'foghorn'
7008.0	1300-1645/	13 15	2	RUS		F1B		250	
7012.0	1250-1530	08	2	RUS		F1B		250	
7012.0	1330-1830	10 14	2	BLR		J7D	120	2k60E	
7014.0	0740-1230	02 15	2	RUS		J7D	120	2k60E	
7015.0	1005-1010/	02	2	RUS		A1A	17 wpm	20H	5F
7017.0	0630-0815	14	2	RUS		J7D	120	2k60E	

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7021.0	1120-1320	03	2	BLR		F1B		500H	
7021.0	0805-1240/	*	2	RUS		J7D	120	2k60E	*) Days: 8. 10. 22.
7027.0	1900-1911/	17	2	RUS		F1B		250H	
7029.0	1440	04	2	RUS		F1B		250H	
7032.0	0830-1315	02 07	2	RUS		J7D	120	2k60E	
7036.0	1845-1915	10	2	RUS		F1B		250H	
7046.0	1844-1915	25	2	RUS		F1B		200H	
7054.0	1500-1810	18 25	2	RUS		F1B		200H	
7066.0	0645-1545	*	2	RUS		F1A/B /NON		200H	5BL
7070.0	0630	01	2	RUS		F1B/ NON		250H	
7098.0	1215-1340	01	2	RUS		F1B		250H	
7099.0	0620	10	2	RUS		F1B/ NON		200H	
7099.0	0700-1000	12	2	RUS		A1A	17 wpm	20H	5F
7110.0	0430-0645	01 - 28	2	ETH	R. Ethiopia	A3E		9k0	
7110.0	1400-1810/	01 - 28	2	ETH	R. Ethiopia	A3E		9k0	Mostly 1500 – 1600 off air
7110A	0830-1550	*	2		RSS	A1A	22 wpm	20H	Offset +/- 150 Hz, plain english news
7112.0	1045-1057/	17	2	RUS		J7D	120	2k60E	
7122.0	0700-0815	16	2	RUS		F1B		250H	
7140.0	0445-0600	*	2	ERI	VoBME	A3E		9k0	*) days: 1. - 15. 17. 18. 21. 22. 23. 25. 28. +20Hz offset
7140.0	1415-1835/	*	2	ERI	VoBME	A3E		9k0	*) days: 1. - 15. 17. 18. 21. 22. 23. 25. 28. +20Hz offset
7142.0	1220-1330/	24	2	RUS		F1B		250H	
7159.0	0720-1615/	*	2			G7D		3k00E	*) days: 11. - 16. LINK, aeroplane over north of Sweden
7160.0	0715-0930	15 16	2	RUS	RBL88	A1A		20H	
7161.0	0640-0815	14	2	RUS		J7D	120	2k60E	
7170.0	1545-1600	11	2	BLR		J7D	120	2k60E	
7175.0	1345-1400	02	2	RUS	9	A1A		20H	Time stamp
7182.0	0610-0820/	05	2	RUS		F1B/ NON		200H	
7193.0	0630-1500/	01 - 28	2	RUS	RDL	F1A/B/ NON		200H	

SRAL; Pekka, OH2BLU									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7198.0	1445-1523/	08	2	RUS		J7D	120	2k60E	
7200.0	1020-1100/	01 - 28	2	TWN	RTI	A3E		9k0	Radio Taiwan International, to 1030 NON
10 MHz	0440-0500	05	2	G		RADAR	50sps	20k0	(WebSDR 5d)
10 MHz	1445-1530	02	2	RUS		RADAR	40sps	13k0E	(WebSDR 5d)
14 MHz	0500-1730	*	2	RUS		RADAR	40sps	13k0E	*) Days: 3. 6. 6. 8. 10. 14. - 28. (WebSDR 17d)
14 MHz	0530-1415	*	2	RUS		RADAR	10sps	10k0E	*) Days: 1. 2. 3. 8. 9. 11. 14. - 17. 23. 25. 27.
14 MHz	0615-1500	*	2	CHN		RADAR	50/67sps	10k0E	*) Days: 1. - 4. 6. - 9. 12. 15. 16. 18. 21. 24. 27. 28. 'foghorn'
14 MHz	0700-1000/	*	2	CHN		RADAR	10sps	40k0	*) Days: 1. - 4. 7. 11. 15.
14050.0	1145-1245/	21	2	RUS		F1B/ NON		250H	
14102.0	0720	01	2	RUS		J7D	120	2k60E	
14116.0	0930-1345	17	2	RUS		F1B		250H	
14221.0	0445-0610/	*	2	KAZ		F1B		200H	*) Days: 3. - 6. 8. - 10. 12. 23. 26.
18 MHz	0630-0915	06 25	2	G		RADAR	25/50sps	20k0	(WebSDR 6d)
18 MHz	0800-1600	*	2	RUS		RADAR	40sps	13k0E	*) days: 14. 18. 23. 27. (WebSDR 4d)
18 MHz	0700-1000	*	2	CHN		RADAR	50/67sps	10k0E	*) Days: 2. 11. 17. 27. 28. 'foghorn'
21 MHz	0615-1430	*	2	G		RADAR	25/50sps	20k0	*) Days: 1. - 4. 13. 15. 16. 17. 19. 22. 26. 28. (WebSDR 20d)
21 MHz	1300-1500	13 25	2	RUS		RADAR	40sps	13k0E	(WebSDR 4d)
21438.0	/0830-1330	*	2	RUS	RCV	A1A	20	20H	*) Days: 1. 3. 6. 7. 10. 12. - 15. 19. 20. 27. 28.
28 MHz	0615-1400	*	2	IRN		RADAR	150/313	60k0E	*) Days: 2. 3. 4. 7. - 10. 13. - 19. 27. 28. alternating fq
28150.0	0615-1400	*	2	IRN		RADAR	310/870	60k0E	*) Days: 27. 28.
28860.0	0615-1400	*	2	IRN		RADAR	150/313	60k0E	*) Days: 1. 3. 4. 6. 8. 10. 17. 20. 27. 28.
28 MHz	0945	16	2	RUS	Taxi disp.	F3E		3k0E	3 reports

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6996.0	17:44	25	02	RUS		RADAR	40	12K0E	OTHR Contayner
7000.0	16:31 vt*	21 vd*	02	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 25/02, 1835 UTC
7008.0	15:51	15	02			F1B		250H	
7012.0	18:12 vt*	10 vd*	02			J7D	120	2K70E	CIS-12 *Also on 14/02, 1618 UTC
7012.0	19:27	21	02	RUS		RADAR	40	12K0E	Contayner. 3 simultaneous TX on 40 m:

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
									7012 kHz CF + 7095 kHz CF + 7133 kHz CF
7012.0	18:56	27	02	RUS		RADAR	40	12K0E	OTHR Contayner
7013.0	19:07	26	02	RUS		RADAR	40	12K0E	OTHR Contayner
7028.0	18:42	26	02	RUS		RADAR	40	12K0E	OTHR Contayner
7034.0	22:29	02	02	RUS		RADAR	40	12K0E	OTHR Contayner
7039.0	19:44	27	02	RUS		RADAR	40	12K0E	Contayner. 3 simultaneous TX on 40 m: 7039 kHz CF + 7012 kHz CF + 7130 kHz CF
7046.0	17:57	07	02			F1B		250H	
7046.0	19:22 vt*	18 vd*	02	RUS		F1B	50	200H	*Often
7049.9	19:12 vt*	24 vd*	02			A1N	21		Continuous dots. *Daily since 24/02.
7055.0	18:14 vt*	10 vd*	02			J3E-L			UKR/RUS "radiowar" *Often
7058.0	17:23	09	02	RUS		RADAR	40	12K0E	OTHR Contayner
7058.0	20:30	18	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
7058.0	20:00	27	02	RUS		RADAR	40	12K0E	Contayner. 3 simultaneous TX on 40m: 7058 kHz CF + 7042 kHz CF + 7130 kHz CF
7060.0	19:12	26	02	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 7013 kHz CF
7062.0	23:05	01	02	RUS		RADAR	40	12K0E	OTHR Contayner
7063.0	18:14	27	02	RUS		RADAR	40	12K0E	OTHR Contayner
7066.0	17:45	17	02	RUS		RADAR	40	12K0E	OTHR Contayner.
7066.0	18:10	22	02	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 7194 kHz CF
7070.0	19:03	28	02			J7D	120	2K70E	CIS-12
7085.0	21:20	28	02	RUS		RADAR	40	12K0E	OTHR Contayner
7087.0	23:43	01	02	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 7125 kHz CF
7089.0	18:16	27	02	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 7063 kHz CF
7091.0	17:49	25	02	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 6996 kHz CF
7095.0	19:22	21	02	RUS		RADAR	40	12K0E	OTHR Contayner
7103.0	20:50	10	02	RUS		RADAR	40	12K0E	OTHR Contayner
7107.0	23:06	01	02	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 7062 kHz CF
7107.0	22:18	03	02	RUS		RADAR	40	12K0E	OTHR Contayner
7108.0	20:56	03	02	RUS		RADAR	40	12K0E	OTHR Contayner
7108.0	18:18	27	02	RUS		RADAR	40	12K0E	Contayner. 3 simultaneous TX on 40m: 7063 kHz CF + 7089 kHz CF + 7108 kHz CF
7110.0	17:22 vt*	09 vd*	02	ETH		A3E			BC. Ethiopia radio *Often
7113.0	20:51	27	02	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 7012 kHz CF
7117.0	21:50	03	02	RUS		RADAR	40	12K0E	OTHR Contayner
7125.0	23:31 vt*	01 vd*	02	RUS		RADAR	40	12K0E	OTHR Contayner *also on 07/02, 1855 UTC
7130.0	19:08	27	02	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 7012 kHz CF
7133.0	19:25	21	02	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 7095 kHz CF
7140.0	18:31 vt*	03 vd*	02	ERI		A3E			BC. "VoBM1" *Often
7145.0	21:09	23	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
7160.8	07:42	15	02			G7D		2K40E	7160.8 kHz CF
7171.0	18:34	27	02	RUS		RADAR	40	12K0E	OTHR Contayner

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
7173.0	16:32	18	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
7182.0	18:30 vt*	03 vd*	02	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 09/02, 1710 UTC
7190.0	20:21	27	02			J3E-L			Music. QRT: 2021 UTC
7194.0	18:10 vt*	22 vd*	02	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 25/02, 1715 UTC
7194.0	18:22	28	02	RUS		RADAR	40	12K0E	OTHR Contayner
7196.0	16:06	17	02	RUS		RADAR	40	12K0E	OTHR Contayner
13999.0	1422	28	02	RUS		RADAR	40	12K0E	OTHR Contayner
14002.0	12:16	21	02			F1B		850H	FSK. SH = 850 Hz
14026.0	10:54	08	02			J7D		2K70E	CIS-12. Submode idle
14033.0	08:06	02	02	CHN		RADAR	10	40K0E	OTHR
14034.0	09:21	04	02	CHN		RADAR	10	40K0E	OTHR
14037.0	09:42	15	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14041.0	09:15	27	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14044.0	08:34	08	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14045.0	09:04	09	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14047.0	08:37	21	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14049.0	08:03	14	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14050.0	08:45	01	02	CHN		RADAR	83.3	10K0E	Short bursts. "Foghorn"
14050.0	08:11	14	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14054.0	08:09	10	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14055.0	07:25	28	02	RUS		RADAR	40	12K0E	OTHR Conytayner
14056.0	09:16	27	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14062.0	09:04	03	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14090.0	09:51	25	02	RUS		RADAR	40	12K0E	OTHR Contayner
14091.0	08:18	17	02			W7D		2K80E	OFDM: CIS-60
14091.0	07:23	18	02			W7D		2K80E	OFDM. CIS-60
14098.5	07:32	07	02					1K20E	DPRK-1200
14098.5	07:29 vt*	11 vd*	02			F1B	600	600H	DPRK-FSK ARQ *Often
14099.0	13:00	24	02	RUS		RADAR	40	12K0E	OTHR Contayner
14099.0	09:17	27	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14101.9	07:20 vt*	01 vd*	02			W7D		2K80E	OFDM. CIS-60 *Also on 15/02, 0748 UTC
14105.0	08:11	21	02	CHN		RADAR		10K0E	Short bursts. "Foghorn"
14110.0	10:16	24	02	CHN		RADAR	66.7	10K0E	Short busrst. "Foghorn"
14115.0	08:49	26	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14116.0	08:06	17	02			F1B	75	250H	
14118.0	07:55	13	02			J7D		2K70E	CIS-12. Submode Idle. Overdriven
14123.0	08:19	28	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14129.0	08:36	27	02			J3E-U			Speech. Like broadcast relaying. Male voices. RUS language. Long-lasting
14132.0	14:51	21	02	RUS		RADAR	40	12K0E	OTHR Contayner
14133.0	15:24	09	02	RUS		RADAR	40	12K0E	OTHR Contayner
14140.0	15:13	11	02	RUS		RADAR	40	12K0E	OTHR Contayner
14143.0	07:00	07	02	CHN		RADAR	10	40K0E	OTHR

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14144.0	08:12	26	02			J3E-U			Music
14145.0	09:27	09	02	CHN		RADAR	10	160KOE	Wideband OTHR
14147.0	15:38	21	02			RADAR	12	20KOE	OTHR Contayner. 2 systems side by side: 14147 kHz CF + 14157 kHz CF
14149.0	09:52	25	02	CHN		RADAR	66.7	10KOE	Short bursts. "Foghorn"
14152.0	09:55	25	02	CHN		RADAR	66.7	10KOE	Short bursts. "Foghorn"
14153.0	08:27	26	02			J3E-U			Music. Same as on 14144 kHz USB
14156.0	15:56	21	02			RADAR	40	12KOE	Contayner 2 systems side by side: 14147 kHz CF + 14156 kHz CF
14158.0	15:53	08	02	RUS		RADAR	40	12KOE	OTHR Contayner
14168.0	08:24	21	02	RUS		RADAR	40	12KOE	OTHR Contayner. Also on 14193 kHz CF
14178.0	09:30	08	02	CHN		RADAR	66.7	10KOE	Short bursts. "Foghorn"
14185.0	09:30	09	02	CHN		RADAR	10	160KOE	Wideband OTHR
14185.0	13:04	28	02	RUS		Radar	40	12KOE	OTHR Contayner
14188.0	07:34	23	02	RUS		RADAR	40	12KOE	OTHR Contayner
14190.0	08:41	09	02	CHN		RADAR	10	160KOE	Wideband OTHR
14190.0	08:32 vt*	21 vd*	02	RUS		RADAR	40	12KOE	OTHR Contayner *Also on 24/02, 0742 UTC
14191.0	15:26	03	02	RUS		RADAR	40	12KOE	OTHR Contayner
14193.0	08:25 vt*	21 vd*	02	RUS		RADAR	40	12KOE	OTHR Contayner *Also on 24/02, 1651 UTC
14193.0	15:38	21	02	RUS		RADAR	40	12KOE	OTHR Contayner. 3 simultaneous TX on 20m: 14193 kHz CF + 14147 kHz CF + 14156 kHz CF
14193.0	09:17	24	02	CHN		RADAR	83.3	10KOE	Short bursts. "Foghorn"
14200.0	08:09	21	02	RUS		RADAR	40	12KOE	OTHR Contayner
14212.0	08:14	09	02	CHN		RADAR	10	160KOE	Wideband OTHR
14216.0	07:11	07	02	CHN		RADAR	66.7	10KOE	Short bursts. "Foghorn"
14218.0	08:36	22	02			J7D		CA6K56E	CIS-12 DSB
14220.0	08:28	22	02	CHN		RADAR	50	10KOE	OTHR
14220.0	08:31	22	02			J7D	120	2K70E	CIS-12
14222.0	07:54	08	02	CHN		RADAR	66.7	10KOE	Short bursts. "Foghorn"
14226.0	07:53	07	02	CHN		RADAR	66.7	10KOE	Short bursts. "Foghorn"
14239.0	08:45	11	02	CHR		RADAR	10	40KOE	CHN OTHR. BW = 40KOE. 10 sps
14244.0	07:07	08	02	CHN		RADAR	66.7	10KOE	Short bursts. "Foghorn"
14245.0	08:59	17	02	CHN		RADAR	66.7	10KOE	Short bursts. "Foghorn"
14250.0	08:12	01	02	CHN		RADAR	10	40KOE	OTHR
14252.0	08:44	04 vt*	02 vd*	CHN		RADAR	10	40KOE	OTHR *Also on 15/02, 0747 UTC
14253.0	07:35	09	02	CHN		RADAR	10	160KOE	Wideband OTHR. BW = 160KOE. 10 sps
14255.0	09:11	07	02	CHN		RADAR	66.7	10KOE	Short bursts. "Foghorn"
14257.0	08:24	01	02	CHN		RADAR	10	40KOE	CHN OTHR. BW = 40KOE. 10 sps
14264.0	09:53	25	02	CHN		RADAR	50	10KOE	Short bursts. "Foghorn"
14274.0	11:59	02	02			J7D	120	2K70E	CIS-12
14280.0	10:10	02 vd*	02			A3E			Numbers st "S06s" aka "Russian lady". Female voice. numbers. *Also on 09/02 and 23/02
14285.0	08:31	17	02	CHN		RADAR	66.7	10KOE	Short bursts. "Foghorn"

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14289.0	08:13	01	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
14290.0	08:34	21	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14292.0	08:31	26	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14293.0	08:38	21	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14295.0	08:36	09	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14298.0	08:45	15	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14298.5	08:07 vt*	01 vd*	02					1K20E	DPRK-1200 *Often
14298.5	07:59 vt*	09 vd*	02			F1B	600	600H	DPRK-FSK 600 ARQ *Often
14301.9	08:08	02	02			W7D		2K80E	OFDM. CIS-60
14304.0	09:48	03	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
14307.0	08:17	04	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14308.0	07:29 vt*	01 vd*	02			F1B	50	500H	*also on 14, 23 and 24/02
14314.0	08:45	04	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14319.0	08:38	21 vt*	02 vd*	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn" *Also on 21/02, 0854 UTC
14320.0	09:46	09	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14321.0	07:58	10	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14322.0	08:40	27	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14323.0	08:12 vt*	02 vd*	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn" *Also on 08/02, 0809 UTC
14324.0	09:48	03	02	CHN		RADAR	47.5	10K0E	Short bursts. "Foghorn"
14325.0	08:32 vt*	08 vd*	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn" *Also on 09/02, 0830 UTC
14327.0	08:13	21	02			W7D		2K80E	OFDM: CIS-60
14329.0	06:55 vt*	07 vd*	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn" *Also on 11/02, 0828 UTC
14330.0	09:41	22	02	RUS		RADAR	40	12K0E	OTHR Contayner
14333.0	08:33	08	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14337.0	06:58	01	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14337.0	08:28	01	02	CHN		RADAR	83.3	10K0E	Short bursts. "Foghorn"
14338.0	08:18	24	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14338.0	13:06	24	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
14339.0	09:18	24	02	CHN		RADAR	83.3	10K0E	Short bursts. "Foghorn"
14342.0	08:24	27	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14343.0	08:12	09	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14351.0	08:53	21	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
14354.0	09:02	09	02	CHN		RADAR	10	160K0E	Wideband OTHR
14370.0	08:28	24	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus. Splatter to 14340 kHz
14390.0	09:03	09	02	CHN		RADAR	10	160K0E	Wideband OTHR
18065.0	07:52	17	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
18080.0	08:35	08	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
18083.0	08:21	28	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
18111.0	10:15	27	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
18113.0	09:06	24	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
18116.0	09:08	07	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
18122.0	08:22	21	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
18125.0	08:35	17	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
18138.0	08:33	04	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
18140.0	08:59	03	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
18150.0	08:58	23	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
18155.0	08:30	27	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
18156.0	10:14	24	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
18160.0	09:20	03	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
18170.0	08:27 vt*	21 vd*	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus *Also on 26 and 28/02, vt
18172.0	08:02 vt*		02	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 25 and 27/02, vt
21055.0	08:24	11	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21096.0	08:04	02	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21100.0	09:05	28	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21109.0	09:52	01	02	RUS		RADAR	40	12K0E	OTHR Contayner
21110.0	11:05 vt*	04 vd*	02	G		RADAR	25	20K0E	OTHR Pluto. UK SBA, Cyprus *Also on 08, 26 and 27/02, vt
21111.0	08:58	21	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21113.0	13:24	01	02	RUS		RADAR	40	12K0E	OTHR Contayner
21113.0	08:17	23	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21115.0	08:12	17	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21120.0	08:59	21	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21125.0	08:00	01	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21126.0	07:44	15	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21129.0	09:46	01	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21130.0	08:38 vt*	13 vd*	02	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 28/02, 1257 UTC
21135.0	09:06	15	02	CHN		RADAR		10K0E	Short bursts. "Foghorn"
21141.0	08:14	14	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21145.0	09:00	01	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21151.0	08:33	11	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21153.0	08:24	04	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21153.0	08:34	18	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
21155.0	08:23	12	02	G		RADAR	50	20K0E	OTHR PLUTO. UK SBA, Cyprus
21155.0	09:07	15	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21160.0	07:12	10	02	RUS		RADAR	40	12K0E	OTHR Contayner
21164.0	09:09	12	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21167.0	08:43	27	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21170.0	08:02	02	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
21170.0	09:53	03	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21173.0	08:08	22	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21176.0	09:17	03	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21183.0	08:45	17	02	CHN		RADAR	47.6	10K0E	Short bursts. "Foghorn"
21191.0	08:18 vt*	21 vd*	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn" *Also on 28/02, 0824 UTC

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21195.0	11:41	15	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21260.0	09:02	03	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21277.0	08:19	02	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
21290.0	09:45	01	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21300.0	08:50	22	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21301.0	08:14	24	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21302.0	08:25	11	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21316.0	07:23	10	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
21322.0	07:51	18	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
21325.0	10:01	04	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21325.0	08:16	17	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21329.0	07:59	13	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
21329.0	07:27	18	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21334.0	08:33	01	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21337.0	07:40	14	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
21338.0	07:24	11	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21339.0	09:51	01	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21340.0	07:01	01	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21345.0	10:08	02	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21348.0	08:01	26	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21349.0	09:00	21	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21350.0	09:52	03	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21351.0	12:40	01	02	RUS		RADAR	40	12K0E	OTHR Contayner
21351.0	09:31	15	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21357.0	08:42	12	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
21363.0	07:58	26	02	CHN		RADAR	47.6	10K0E	Short bursts. "Foghorn"
21365.0	07:57	17	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21370.0	09:20	04	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21372.0	07:28	18	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21373.0	08:26	28	02	CHN		RADAR	47.6	10K0E	Short bursts. "Foghorn"
21375.0	09:00 vt*	03 vd*	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus *Also on 04/02, 1035 UTC
21375.0	08:08	11	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21378.0	08:32	01	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21378.0	08:41	02	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21379.0	08:04	22	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21380.0	13:43	10	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21383.0	07:58	07	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21383.0	14:51	09	02	RUS		RADAR	40	12K0E	OTHR Contayner
21388.0	07:14	10	02	CHN		RADAR	47.5	10K0E	Short bursts. "Foghorn"
21388.0	08:28	12	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21392.0	08:32	10	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21395.0	07:48	10	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21399.0	07:51	07	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21400.0	10:01	09	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21400.0	08:38	23	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"

URE; Gaspar, EA6AMM									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
21405.0	08:03	26	02	CHN		RADAR	47.6	10K0E	Short bursts. "Foghorn"
21406.0	08:42	18	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21408.0	07:54	10	02	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 21425 kHz CF
21409.0	08:16	24	02	CHN		RADAR	47.7	10K0E	Short bursts. "Foghorn"
21410.0	11:11 vt*	01 vd*	02	RUS		RADAR	40	12K0E	OTHR Contayner *Also on 17/02, 1241 UTC
21410.0	08:58	14	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21411.0	07:58	28	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21413.0	08:27	12	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21413.4	08:33	28	02			F1B	600	600H	DPRK-FSK 600 ARQ
21414.0	08:30	08	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21415.0	08:05 vt*	22 vd*	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn" *Also on 28/02, 0828 UTC
21416.0	07:35	10	02	CHN		RADAR	66.7	10K0E	Short bursts. "Foghorn"
21420.0	08:34	01	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21421.0	09:44	03	02	CHN		RADAR	50	10K0E	Short bursts. "Foghorn"
21421.0	08:53	11	02	CHN		RADAR	41.7	10K0E	Short bursts. "Foghorn"
21425.0	07:37	10	02	RUS		RADAR	40	12K0E	OTHR Contayner
21430.0	07:39	18	02	G		RADAR	50	20K0E	OTHR Pluto. UK SBA, Cyprus
21431.0	1257	28	02	RUS		RADAR	40	12K0E	OTHR Contayner. Also on 21130 kHz CF
21438.0	08:30 vt*	01 vd*	02	RUS	RCV	A1A			"RCV" QTC. RUS navy. Sometimes, overdriven. *Almost daily
21449.0	07:27	11	02	CHN		RADAR	62.5	10K0E	Short bursts. "Foghorn"
24884.0	07:44	10	02	RUS		RADAR	40	12K0E	OTHR Contayner. Partially in 12 m band
24886.0	09:44	07	02	RUS		RADAR	40	12K0E	OTHR Contayner
28000.0*	09:39	15	02	IRN		RADAR	150	45K0E	150 and 313 sps, alternating. * Jumping
28025.5	15:16 vt*	03 vd*	02			F1B		Ca 300H	Fishing buoy *Often
28062.1	15:22 vt*	03 vd*	02			F1B		Ca 300H	Fishing buoy *Often
28150.0	10:22 vt*	23 vd*	02	IRN		RADAR	313	45K0E	313 and 870 sps, alternating *Daily since 24/02, vt
28205.0	07:35	11	02	IRN		RADAR	150	45K0E	OTHR IRN. BW = 45K0E. 150 and 313 sps alternating. Jumping
28300.0*	07:44	14	02	IRN		RADAR	150	45K0E	150 and 313 sps, alternating. * Jumping
28325.0	10:20	02	02	G		RADAR	25	20K0E	OTHR Pluto. UK SBA, Cyprus
28350.0*	08:14	11	02	IRN		RADAR	150	45K0E	150 and 313 sps alternating. * Jumping
28400.0*	09:19	27	02	IRN		RADAR	150	45K0E	150 and 313 sps, alternating * Jumping
28690.0	09:43	12	02	G		RADAR	25	20K0E	OTHR Pluto. UK SBA, Cyprus
28860.0	08:37 vt*	02 vd*	02	IRN		RADAR	150	45K0E	150 and 313 sps, alternating *Very often
29050.0	10:14	11	02	G		RADAR	25	20K0E	OTHR Pluto. UK SBA, Cyprus
29280.0	09:40	25	02	IRN		RADAR	226	45K0E	226 and 333 sps, alternating
29570.0*	08:37	12	02	IRN		RADAR	150	45K0E	OTHR IRN. BW = 45K0E. 150 and 313 sps, alternating. * Jumping

USKA; Peter, HB9CET									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
6999.0	1759	10	02			FMOP	40 sps	12k0E	OTHR; Contayner; partially in 40m band
7008.0	1523	15	02			F1B		250H	
7012.0	1632 1109	08 14	02			J7D	12x120 Bd	2k70E	CIS12 often
7046.0	0943 1641	17 21	02			F1B	50 Bd	200H	often
7050.0 LSB	1330	14	02			J3E-L		ca. 3k0E	RUS-UKR Radio War often
7054.0	1701	25	02			F1B			often
7055.0 LSB	0647	28	02			J3E-L		ca. 3k0E	RUS-UKR Radio War almost daily
7064.0	2251	21	02			FMOP	40 sps	12k0E	OTHR; Contayner
7065.0	1321	14	02			J7D	12x120 Bd	2k70E	CIS12
7070.0	1529	28	02			J7D	12x120 Bd	2k70E	CIS12
7072.0	0943	09	02			J7D	12x120 Bd	2k70E	CIS12
7110.0	1734 1633	03 08	02	ETH		A3E		ca 9k0E	BC: Radio Ethiopia daily
7123.0	1329	03	02			FMOP	66.66 sps	10k0E	OTHR; short Bursts
7134.0	2113	26	02			F1B		200H	
7138.0	1735	08	02			FMOP	40 sps	12k0E	OTHR; Contayner
7156.0	2116	26	02			FMOP	40 sps	12k0E	OTHR; Contayner
7159.0 USB	0917	15	02			G7D DQPSK	75 Bd	ca 2k50E	LINK11 CLEW SSB mode; 16 tones often
7193.0	0923 0900	15 28	02		RDL	F1B	50 Bd	200H	FSK often
7194.0	1733	25	02			FMOP	40 sps	12k0E	OTHR; Contayner
13999.0	1432	28	02			FMOP	40 sps	12k0E	OTHR; Contayner; partially in 20m band
14002.0	1249	21	02			F1B		850H	
14033.0	0947	02	02			OTHR	10 sps	40k0E	OTHR
14034.0	0959	04	02			OTHRx	10 sps	40k0E	OTHR
14054.0	0937	03	02			FMCW	66.66	10k0E	OTHR; Bursts
14059.0	0950	15	02			FMCW	50 sps	10k0E	OTHR; Bursts
14090.0	1042	25	02			FMOP	40 sps	12k0E	OTHR; Contayner
14098.5	0737	23	02			F1B/ARQ	600 Bd	600H	DPRK 600/600 ARQ system often
14101.9	0916	01	02			W7D		2k	OFDM60;
14114.0	0858	25	02			FMOP	40 sps	12k0E	OTHR; Contayner
14116.0	0929	17	02			F1B		250H	
14184.0	1004	08	02			FMxx	10 sps	160k0	Wideband OTHR
14185.0	1335	28	02			FMOP	40 sps	12k0E	OTHR; Contayner
14188.0	0735	23	02			FMOP	40 sps	12k0E	OTHR; Contayner
14193.0	1613	24	02			FMOP	40 sps	12k0E	OTHR; Contayner

USKA; Peter, HB9CET									
kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
14221.0	0952	01	02			FMCW	50 sps	10k0E	OTHR; Bursts
14231.0	0947	01	02			FMCW	50 sps	10k0E	OTHR; Bursts
14239.0	0842	11	02			FMxx	10 sps	40k0E	OTHR
14253.0	0930	04	02			FMxxx	10 sps	40k0E	OTHR
14257.0	0828	01	02			FMxx	10 sps	40k0E	OTHR
14278.0	0958	28	02			FMCW	66.66	10k0E	OTHR; Bursts
14280.0	1010 1011	08 23	02		UKR ?	A3E		ca 7k	SZRU; Female voice: encrypted msgs (figures); Russian language often
14297.0	0937	03	02			FMCW	66.66	10k0E	OTHR; Bursts
14308.0	0745	23	02			F1B		500H	
14313.0	0959	23	02			OTHR	48 sps	10k0	OTHR
14315.0	0940	15	02			FMCW	50 sps	10k0E	OTHR; Bursts
14324.0	0954	03	02			OTHR	48 sps	10k0	OTHR
14333.0	0943	15	02			FMCW	66.66	10k0E	OTHR; Bursts
14339.0	0917	24	02			OTHR	83	10k0E	OTHR; Bursts
14342.0	0954	28	02			FMCW	66.66	10k0E	OTHR; Bursts
18079.0	0958	28	02			OTHR	41	10k0E	OTHR; Bursts
18083.0	0827	28	02			FMCW	50 sps	10k0E	OTHR; Bursts
18150.0	0902	23	02			FMCW	66.66	10k0E	OTHR; Bursts
18169.0	1053	14	02			FMOP	40 sps	12k0E	OTHR; Contayner; partially in 17m band
18172.0	0805	23	02			FMOP	40 sps	12k0E	OTHR; Contayner; partially in 17m band
18175.0	0904	25	02	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus; partially in 17m band
21100.0	0915	28	02	G		FMCW	50 sps	20k0E	OTHR; UK-base Cyprus
21109.0	1000	01	02			FMOP	40 sps	12k0E	OTHR; Contayner
21179.0	1044	02	02			OTHR	48 sps	10k0E	OTHR; Bursts
21191.0	0835	28	02			FMCW	50 sps	10k0E	OTHR; Bursts
21277.0	1003	02	02			OTHR	66.66	10k0E	OTHR; Bursts, long lasting
21325.0	1003 1020	04 22	02	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21345.0	1009	02	02	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21350.0	0957 1118	03 22	02	G		FMCW	50 sps	20k0E	OTHR; UK-base Cyprus
21355.0	0907	10	02	G		FMCW	50 sps	20k0E	OTHR; UK-base Cyprus
21365.0	1309	14	02	G		FMCW	50 sps	20k0E	OTHR; UK-base Cyprus
21375.0	1038	04	02	G		FMCW	50 sps	20k0E	OTHR; UK base Cyprus
21415.0	0830	28	02			FMCW	50 sps	10k0E	OTHR; Bursts
21420.0	0937	01	02	G		FMCW	50 sps	20k0E	OTHR;UK-base Cyprus
21430.0	0803	18	02	G		FMCW	50 sps	20k0E	OTHR;UK-base Cyprus
21438.0	1002 0917	01 28	02	RUS	RCV	A1A		10H	TDoA: Area of Sevastopol daily
28150.0	0839	28	02	IRN		?	307 + 870 sps	ca 45k	OTHR; Bursts; long lasting, sweep rate alternating often
28209.0	1105	20	02	IRN		?	150 + 313 sps	ca 45k	OTHR; Bursts; long lasting, sweep rate alternating
28345.0	1100	14	02	G		FMCW	50 sps	20k0E	OTHR; UK-base Cyprus

USKA; Peter, HB9CET

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
28615.0	1006	03	02			F3E			Taxi; female voice
28825.0	0952	11	02	G		FMCW	25 sps	20k0E	OTHR; UK-base Cyprus
28860.0	1008 1016 0850	02 04 28	02	IRN		?	150 + 313 sps	ca 45k	OTHR, Bursts; long lasting, sweep-rate alternating almost daily

VERON; Ruud, PG1R. Credits to observers: Dick PA0GRU, Joeke PA0VDV, Kees PA2CHM, Arie PA3CNK, Rene PA3EQO

kHz	UTC	DD	MM	ITU	IDENT	MODE	BD /sps	SH / BW	DETAILS
3508.0	2045	07	02	RUS		F1B			Revs/UiPtr
3512.0	2042	07	02			A1A			Pip now on 3512.0; UiCW
3527.0	2042	07	02	RUS		F1B			Revs/UiPtr
3708.0	2045	25	02			A1A			UiCW; Strings of Figure groups: 9594 864 13 95 22 47 00 9593 864 93 97 51 9594 864 13 95 51 00
7046.0	2030	07	02	RUS		F1B			Revs/UiPtr
7046.0	1752	25	02	RUS		F1B		200H	Printer
7049.9	1705	24	02			A1A			Continuous dots
7055.0	1436	06	02			J3E-L			Comments; UKR-RUS radiowar; S7.
7198.0	0947	26	02	RUS		J7D		2K6E	CF; CIS-12
7199.0	1458	27	02	RUS		J7D		2K6E	CF; CIS-12
14193.0	1612	24	02	RUS		Radar	40	12K0E	CF; OTHR Contayner.
14240.0	0930	11	02			Radar			
14330.0	0953	22	02			Radar			
18171.0	1021	27	02			Radar	40	15K0E	CF; partly in 17m band; long lasting.
21436.0	1040	08	02	RUS		F1B			Revs/UiPtr
21438.0	1010	01	02	RUS	RIP90	A1A			5L & 5L.
21438.0	0826	18	02	RUS	RCV	A1A			Distorted signal; strong S9++.
21438.0	1023	28	02	RUS	RCV	A1A			RIP90 de RCV QTC 459 93 28 1300 459 = Nawip 033 47 Karta 32226
21438.0	1030	28	02	RUS	RCV	A1A			RIP90 de RCV QTC 457 26 16 0007 457 = Nawip 033 70 Karta 32225
21438.0	1040	28	02	RUS	RCV	A1A			RGX95 de RCV 769 50 10 1330 769 = Nawip 037 43 Karta 32354
21447.0	1038	12	02			Radar	50	10k0E	CF; OTHR; short bursts.
28690.0	1030	12	02	G		Radar	25	20k0E	CF; OTHR; UK base Cyprus.

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