



International Amateur Radio Union

Region 1



Monitoring System

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The monthly newsletter for Region 1

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Acknowledgements

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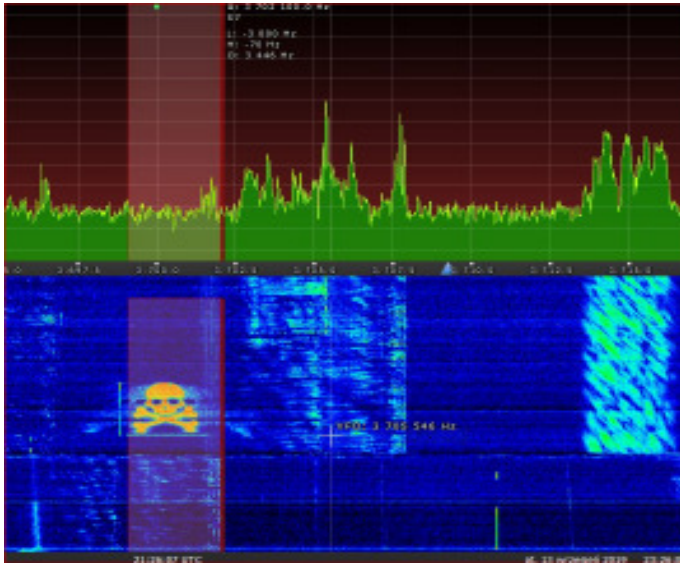
Part 1: News and infos

Part 2: Detailed reports of the national co-ordinators

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Part 1: News and Infos

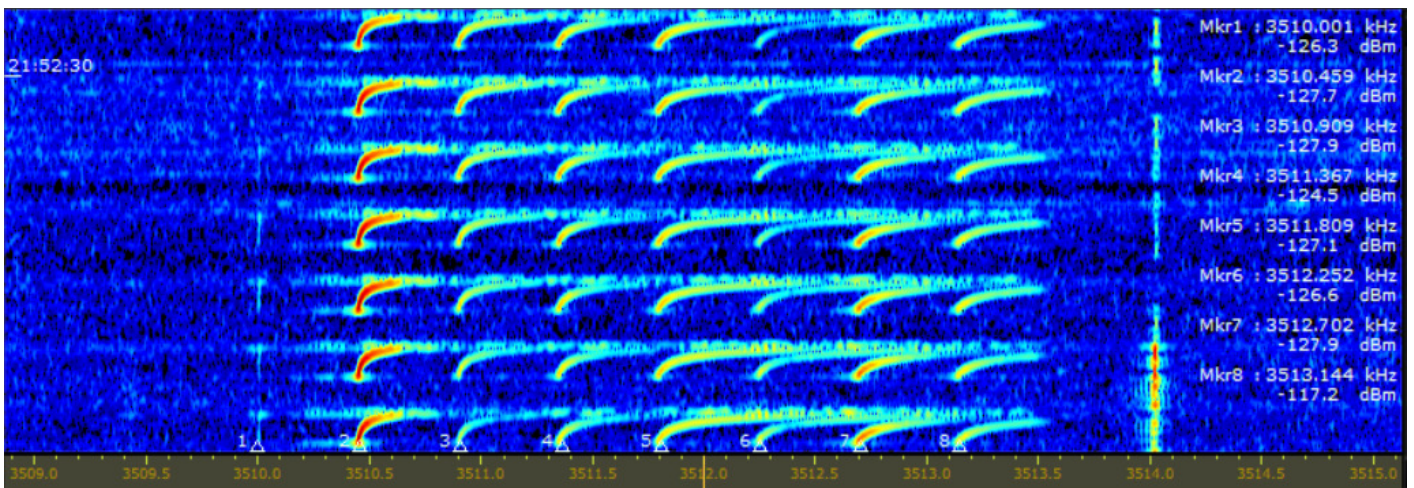
1. Silly games and propaganda on 80 m



screenshot on 3700 kHz by our Polish group

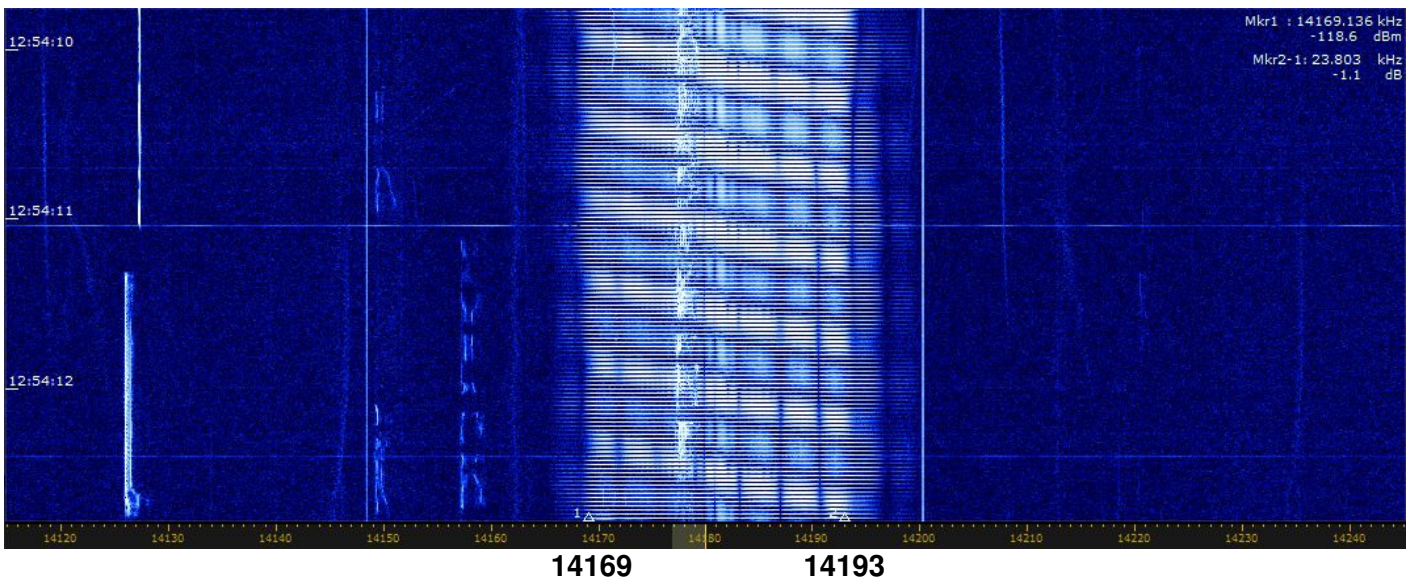
propaganda in Russian voice on 3731 LSB reported by PZK.

2. Mysterious chirps on 3510 kHz USB every evening since 25 Sept. – observed: DK2OM / HB9CET covering about 3 kHz – location: area of Voronezh RUS (DF result) – purpose unknown – screenshot: HB9CET

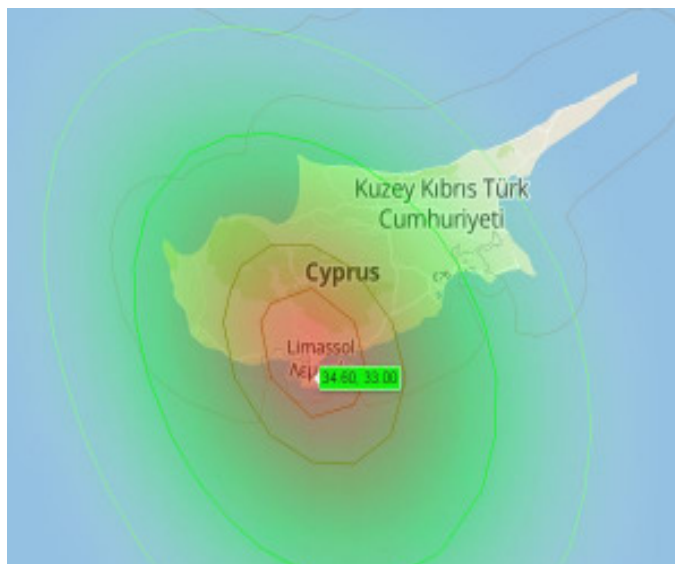


3. Russian OTH radar Contayner with new parameters on 14 MHz

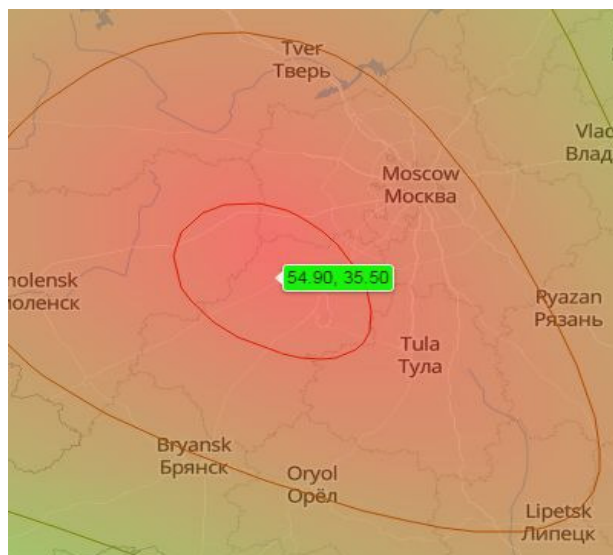
Contayner on 14169 kHz (RF) with 40 sps and 24 kHz wide on 09 September – screenshot: DK2OM



4. TDoA bearings



UK OTH radar Cyprus on 18091 kHz - 21 Sept.



Russian OFDM 60 on 7012.9 kHz - 27 Sept.

5. 7012.9 RUS MIL OFDM 60

7012.9 (7011.0 USB) – OFDM 60 – 29.63 Bd – PSK4B - together with male and female voices sw of Moscow – 27 Sept.

6. 5350.0 kHz - Illegal Spanish fishery traffic daily

Illegal Spanish fishery voice traffic on USB was daily heard. The signals were splattering up to 5352.4 kHz. They were using this QRG like telephone. Possibly Galician fishermen.

7. 14212.0 kHz - A3E – SZRU Ukraine

female voice with encrypted msgs (figures) – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne every Thursday at 1206 utc – msgs at 1214 utc – decryption not possible (sri)

8. 14008.0 kHz Russian F1B

A Russian MIL F1B appeared on 14008.0 kHz with 50 Bd and 500 Hz shift very often. Location: Moscow

9. 18080.0 kHz - A3E Sound of Hope – BC Taiwan and CHN jammer

“Sound of Hope” from Taiwan was often audible in Europe together with the mainland jammer in the mornings.

10. Chinese OTH radars on 14 MHz

Chinese OTH radars were daily active on jumping burst mode, often with 66.66 sps sounding like foghorns.

11. 14000.5 kHz – robust packet

RF (USB): 13999.0 kHz - Robust Packet – OFDM 8 – no Ham calls – idents with 6 characters (letters and figures like tiny URLs) – no plain text visible - large net – daily, all day – location China

12. 28000.0 kHz – Iranian radar

We observed an Iranian radar on 28000 kHz (center), covering 27980 – 28025 kHz 307 sps – 870 sps alternating. Mode: AMOP = amplitude modulation on pulse

13. Miscellaneous news:

7140 and 7180 kHz – A3E/BC – VOB Eritrea
14000.5 kHz – robust packet daily
14295.0 kHz – harmonic from Radio Tajik on 4765 kHz (no change)
28000 and 28860 kHz – Iranian radar often
28000 – 28500 kHz – many fishery driftnet buoys and few GPS buoys
28000 – 29700 CIS taxi services – FM (F3E)

14. Homepage IARU Region 1

<http://www.iaru-r1.org/>

Homepage IARUMS Region 1

<http://www.iarums-r1.org>

Homepage IARUMS Region 2

<http://www.iarums-r2.org/>

Homepage IARUMS Region 3

<http://iaru-r3.org/iaru-region-3-monitoring-system-newsletter/>

Intruderlogger Region 1

<http://peditio.net/intruder/bluechat.cgi>

ITU-Monitoring Reports

<http://www.itu.int/en/ITU-R/terrestrial/monitoring/Pages/Regular.aspx>

Part 2: Detailed reports of the national Coordinators

DD = day *** MM = month *** dly = daily *** vt = various times *** vd = various days *** BD = Baud *** SH = shift *** SP = spacing *** Mode = mode of transmission *** A3E = AM *** A1A = CW *** J3E-U = USB *** J3E-L = LSB *** FSK (F1B) = frequency shift keying *** PSK = phase shift keying *** OFDM = orthogonal frequency division multiplex
ALE (MIL-188-141A) = automatic link establishment *** MUX = multiplex *** **Ui (unuid)** = unidentified *** **Illicit** = illegal *** **UiILL** = unidentified illegal *** **BC** = broadcast *** **MIL** = military *** **PTR** = printer *** **NGO** = non governmental organization *** **ITU** = ITU country abbreviation *** **PRC** = People's Republic of China *** **PLA** = People's Liberation Army *** **MFA** = Ministry of Foreign Affairs *** **MOI** = Ministry of Interior *** **MOPO** = Ministry of Public Order *** **IARUMS** = IARU Monitoring System *** **UTC** = Universal Time Coordinated *** **PRF** = pulse repetition frequency (radar) = **sps** *** **sps** = sweeps/sec (radar systems) *** **FMCW** = frequency modulated continuous wave (OTH radars)
FMOP = frequency modulation on pulse (OTH radars) *** **5BL** = cyrillic 5 lettergroups *** **DF** = direction finder
AMOP = amplitude modulation on pulse

DARC – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

PSK transmissions -> center QRG - ALE (MIL188-141A) -> USB QRG

exclusive bands -> black – shared bands -> blue - voice traffic -> green - BC -> red
SH = shift - SP = spread (radar) – SPS = sweeps/sec (radar) -> (aka PRF)

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1,8 – 50 MHz	vt	dly	09	D		QRM			1.8 - 50 MHz strong QRM by a neighbouring LED lamp - since April 2016 - "many thanks" to German "BNetzA" Eschborn
DK2OM	1812,0	1939	21	09	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad
DK2OM	1855,0	1940	21	09	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1925,0	1941	21	09	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3500,0	2014	15	09	E		USB			Spanish fishery
DK2OM	3500,9	1905	18	09			LSB			unuid pirates
DK2OM	3503,5	vt	dly	09	G	no ITU	FSK8	125	1750	ALE – British MIL Tascomm – shared band - legal!
DK2OM	3503,8	1745	15	09			PSK8A	2400	2400	MIL-188-110A
DK2OM	3510,0 RF	1916	25	09	RUS		chirps		3k	mysterious chirps – Voronezh – shared band!
DK2OM	3518,2 RF	1937	29	09	MKD		PSK8A	2400	2400	Stanag-4285 – 600 bps long – area of Strumica – North Macedonia – shared band!
DK2OM	3525,0 center	2048	09	09	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2000	04	09	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	---	--	09	RUS	REA4	NON			unclean carrier - RUS airforce Moscow, ident: full hour + 40 min - daily
DK2OM	3532,0	1928	16	09	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3545,2 RF	2100	30	09	GRC		PSK8A	2400	2400	Stanag-4285 – 600 bps long – ship west of Mytilene – Aegean Sea – traffic with Thessaloniki
DK2OM	3550,0	0630	dly	09	F		A3E			French amateurs not respecting bandplans – every morning
DK2OM	3550,7	---	--	09	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – shared band!
DK2OM	3553,8	ady	dly	09	TUR		PSK8A	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3580,0	ady	dly	09	TUR		PSK8A	2400	2400	Stanag-4285 – 600 bps long –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
	RF									Ankara – shared band!
DK2OM	3585,0	ady	dly	09	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!
DK2OM	3586,0	1930	02	09	HOL		PSK2A	40	40	Amsterdam - daily
DK2OM	3591,0	1750	24	09	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3592,0	vt	vd	09	G		PSK8A	2400	2400	Stanag-4285 – 600 bps long - area of Falmouth – shared band
DK2OM	3597,0	1900	17	09	RUS		PSK2A	120	2600	AT3004D – Moscow – shared band!
DK2OM	3622,5	ady	dly	09	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!
DK2OM	3713,2 RF	2013	17	09	G		PSK8A	2400	2400	Stanag-4285 – 600 bps long – UK - area of Isle of Man – shared band!
DK2OM	3735,0	1851	30	09	RUS		PSK2A	120	2600	AT3004D – Moscow – shared band
DK2OM	3756,0	1800	dly	09	RUS		USB			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG
DK2OM	5350,0	---	--	09	RUS		FMOP		50k	Russian coastal radar “Sunflower” – 43 sps – 5350 – 5400 kHz - Makhachkala
DK2OM	5350,0	---	--	09	E		USB		2400	5350.0 – 5352.4 kHz - Spanish fishery splattering up – often in the evenings
DK2OM	5351,8	1915	02	09	ROU		PSK8	2400	2400	5350.0 kHz RF - LINK11-SLEW – area of Focsani – Romania – primary user!
DK2OM	5361,8 RF	---	--	09	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user!
DK2OM	7000,0	vt	dly	09	INS		LSB USB			Indonesian pirates - singing and playing music - daily
DK2OM	7000,0	1300	14	09	RUS		PSK2A	120	2600	AT3004D – 6998.7 – 7001.3 kHz – Smolensk
DK2OM	7000,9	1038	15	09	RUS		OFDM	22.79	2960	6999.0 kHz RF - OFDM 112 – PSK2B - Kaliningrad
DK2OM	7005,0	1636	09	09	INS		LSB			Indonesian pirates
DK2OM	7008,0	1644	19	09			A1A			“B9BB de LXDG QTC k” “XDG” and 4 figure groups
DK2OM	7010,0	vt	dly	09	INS		LSB			Indonesian pirates
DK2OM	7010,0	vt	vd	09	RUS		FMOP		103k	coastal radar „Sunflower“ – 43 sps – 6905 – 7015 kHz with spurious – east of Vladivostok
DK2OM	7012,9	0825	27	09	RUS		OFDM	29.63	2750	OFDM 60 – PSK4B - sw of Moscow and RUS voice traffic on 7011.0 USB – male and female
DK2OM	7015,0	vt	dly	08	INS		LSB			Indonesian pirates – male and female voices
DK2OM	7016,0	1308	29	09	RUS		F1B	75	250	Moscow
DK2OM	7025,0	vt	dly	09	INS		LSB			Indonesian pirates singing
DK2OM	7030,0	vt	19	09	RUS		PSK2A	120	2600	AT3004D – Vladivostok - often
DK2OM	7035,0	vt	dly	09	INS		LSB			Indonesian pirates singing
DK2OM	7035,0	1928	17	09	RUS		F1B	75	250	Nizhny Novgorod
DK2OM	7039,2	---	--	09	RUS	„F“	A1A			Cluster beacon „F“ - Vladivostok RUS Navy - “ RJS ”
DK2OM	7039,3	---	--	09	RUS	„K“	A1A			Cluster beacon “K” Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “ RCC ”
DK2OM	7039,4	1948	02	09	RUS	„M“	A1A			Cluster beacon „M“ – Magadan RUS Navy – „ RTS “ - daily
DK2OM	7051,0	1416	18	09	RUS		PSK2A	120	2600	AT3004D – St. Peterburg

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7054,0	vt	dly	09	UKR		USB		2400	picture propaganda transmissions
DK2OM	7055,0	vt	dly	09	UKR		LSB			music and Russian voices
DK2OM	7088,8	vt	vd	09	S	SL0FRO	A1A			7088.820 kHz - cw-trainee, Sweden - SL0FRO – often - just for info!
DK2OM	7089,8	---	--	09	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft ? west of Izmir
DK2OM	7111,0	vt	22	09	CHN		PSK4A	60	2350	PRC 30 tone modem - LSB mode - pilot tone 450 Hz
DK2OM	7111,0	1244	17	09	RUS		F1B	75	250	Moscow
DK2OM	7112,0	vt	02	09	CHN		PSK4A	60	2350	PRC 30 tone modem - LSB mode - pilot tone 450 Hz
DK2OM	7121,0	vt	26	09	CHN		PSK4A	60	2350	PRC 30 tone modem - LSB mode - pilot tone 450 Hz
DK2OM	7137,0	vt	dly	09	TWN		FSK8 LSB	125	1750	ALE, MIL-188-141A, "FBABA" "FWKMB" "FXIBY" "FCPSL" "FHKHD" "FVIKE" "FHVWY" "FCUGP" "FDRRK" "FWIML" "FBQCY" "FCEAX" Taiwanese navy
DK2OM	7137,0	1910	17	09	RUS		F1B	50	200	Kaliningrad
DK2OM	7140,0	vt	vd	09	ERI		A3E		9k	7140.024 kHz - Radio Eritrea
DK2OM	7170,0	0829	10	09	RUS		F1B	75	200	Sevastopol
DK2OM	7177,0	1914	06	09	RUS		A1A			only fast dots - Sevastopol
DK2OM	7179,0	1915	11	09	Med. Sea		PSK2A	120	2600	AT3004D – RUS ship west of Lesbos
DK2OM	7180,0	vt	vd	09	ERI		A3E		9k	7180.022 kHz - Radio Eritrea
DK2OM	7186,0	1600	04	09	RUS		PSK2A	120	2600	AT3004D – ship ne of Murmansk
DK2OM	7192,0	1604	20	09	RUS		F1B	75	250	Kaliningrad
DK2OM	7196,0	1527	24	09	RUS		F1B	75	200	Moscow
DK2OM	7197,0	vt	dly	09	TUR		FSK8	125	1750	ALE, „353013“ „334018“ „314013“ - Turkish Sivil Avunma – Turkish Civil Defense
DK2OM	10100,8	ady	dly	09	D	DDK9	F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10106,0 RF	1845	02	09	ALG ?		FSK	250		bursts
DK2OM	10114,8	0640	dly	09	RUS		F1B	100	1000	CIS14 – Moscow
DK2OM	10121,0	1535	14	09	RUS		F1B	75	250	Moscow – shared band
DK2OM	10132,0	vt	vd	09			USB			French amateurs not respecting bandplans
DK2OM	10144,0	ady	dly	09	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	14000,0	1533	16	09	PNG		USB			fishermen - south east of Papua New Guinea (Coral Sea) - daily
DK2OM	14000,0	vt	vd	09	B		USB			Brazilian pirates – Rio with North Brazil
DK2OM	14000,5	ady	dly	09	CHN		OFDM	200 600	420	RF: 13999.0 kHz - Robust Packet – OFDM 8 – no Ham calls – idents with 6 characters (letters and figures like tiny URLs) – large net – daily, all day
DK2OM	14001,8	---	--	09	ISR		PSK4 PSK8	75 2400	2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	14008,0	1332	01	09	RUS		F1B	50	500	Moscow – very often
DK2OM	14009,0	1000	12	09	CHN		FMOP		10k	Chinese OTH radar – 14004 – 14014 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14009,9	1240	24	09			USB			unid pirates
DK2OM	14062,0	0907	25	09	CHN		FMOP		10k	Chinese OTH radar – 14057 – 14067 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14090,9	0742	12	09	RUS		OFDM	29.6	2760	OFDM 60 – PSK4B – Moscow – long lasting
DK2OM	14098,0	0913	25	09	CHN		FMOP		10k	Chinese OTH radar – 14093 – 14103 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14100,0	---	--	09	F		A1A			„051“ loop – daily 1658 – 1710 utc – area of Ternant
DK2OM	14101,9	0946	11	09	RUS		OFDM	29.6	2760	OFDM 60 – PSK4B - Moscow
DK2OM	14105,0	0852	08	09	CHN		FMOP		10k	Chinese OTH radar – 14100 – 14110 kHz - 42 sps – 6 sec bursts
DK2OM	14108,0	vt	vd	09	RUS		A1A			encrypted – area of Moscow
DK2OM	14113,0	1315	20	09	FEa		FMOP			unid OTHR burst – 10 sps
DK2OM	14113,5	1405	18	09	RUS		F1B	600	600	DPRK-FSK 600 – North Korean embassy Moscow
DK2OM	14115,0	0906	20	09	CHN		FMOP		10k	Chinese OTH radar – 14110 – 14120 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14118,0	0735	06	09	CHN		FMOP		10k	Chinese OTH radar – 14113 – 14123 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14133,0	0825	10	09	CHN		FMOP		10k	Chinese OTH radar – 14128 – 14138 kHz - 50 sps – 5 sec bursts
DK2OM	14138,0	0738	30	09	MNG		FMOP		40k	Mongolian OTHR – 10 sps – 14118 – 14158 – long lasting
DK2OM	14141,0	1208	05	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14135 - 14147
DK2OM	14143,0	0812	10	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14137 - 14149
DK2OM	14145,0	1110	12	09	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14145 – 14305 kHz
DK2OM	14147,0	0815	05	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14141 - 14153
DK2OM	14147,0	0937	16	09	CHN		FMOP		10k	Chinese OTH radar – 14142 – 14152 kHz - 50 sps – 2.5 sec bursts
DK2OM	14154,0	0738	06	09	CHN		FMOP		10k	Chinese OTH radar – 14149 – 14159 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14158,0	0910	25	09	CHN		FMOP		10k	Chinese OTH radar – 14153 – 14163 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14165,0	0856	18	09	CHN		FMOP		10k	Chinese OTH radar – 14160 – 14170 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14167,0	1055	09	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14161 - 14173
DK2OM	14168,0	0837	06	09	CHN		FMOP		10k	Chinese OTH radar – 14163 – 14173 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14169,0	1254	09	09	RUS		FMOP		24k	OTH radar Contayner - 40 sps – west of Saransk – 14169 - 14193
DK2OM	14170,0	0958	09	09	CHN		FMOP		10k	Chinese OTH radar – 14165 – 14175 kHz - 11 sps
DK2OM	14171,0	0858	23	09	RUS		PSK2A	120	2600	AT3004D – Nizhny Novgorod
DK2OM	14178,0	0853	18	09	CHN		FMOP		10k	Chinese OTH radar – 14173 – 14183 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14181,0	0830	05	09	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14181 – 14341 kHz
DK2OM	14181,0	1303	18	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14175 - 14187
DK2OM	14181,0	0845	21	09	CHN		FMOP		10k	Chinese OTH radar – 14176 –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										14186 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14185,0	0941	30	09	CHN		FMOP		10k	Chinese OTH radar – 14180 – 14190 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14189,0	1058	09	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14183 - 14195
DK2OM	14189,0	1003	26	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14183 - 14195
DK2OM	14191,0	0859	25	09	CHN		FMOP		10k	Chinese OTH radar – 14186 – 14196 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14192,0	vt	vd	09	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad – often with 50 Bd and 200 Hz shift
DK2OM	14198,0	0952	04	09	CHN		FMOP		10k	Chinese OTH radar – 14193 – 14203 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14200,0 RF	vt	vd	09	CHN		PSK2A	75	2000	PRC 16 tone modem – China – Shanghai – marker tones on 14201.7 kHz
DK2OM	14212,0	1206	19	09	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne – every Thursday at 1206 utc – msgs at 1214 utc
DK2OM	14212,0	1233	19	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14206 - 14218
DK2OM	14215,0	1054	26	09	CHN		FMOP		10k	Chinese OTH radar – 14210 – 14220 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14221,0	1945	11	09	KAZ		F1B	50	200	Kazakhstan – west of Almaty - mostly idling - every evening
DK2OM	14224,0	0937	20	09	CHN		FMOP		10k	Chinese OTH radar – 14219 – 14229 kHz - 50 sps – 2.5 sec bursts
DK2OM	14225,0	0905	22	09	CHN		FMOP		10k	Chinese OTH radar – 14220 – 14230 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14237,0	0950	04	09	CHN		FMOP		10k	Chinese OTH radar – 14232 – 14242 kHz - 50 sps – 5 sec bursts
DK2OM	14238,5	0827	05	09			F1B	600	600	DPRK-FSK 600
DK2OM	14240,0	0849	28	09	MNG		FMOP		40k	Far east OTH radar – 10 sps – 14220 – 14260 kHz
DK2OM	14258,0	0914	15	09	CHN		FMOP		10k	Chinese OTH radar – 14253 – 14263 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14260,0	0930	19	09	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne – reported by a German HAM
DK2OM	14260,9	0936	02	09	RUS		OFDM	29.63	2750	OFDM 60 – PSK4A - Moscow
DK2OM	14265,0	0815	10	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14259 - 14271
DK2OM	14265,0	0848	17	09	CHN		FMOP		10k	Chinese OTH radar – 30 sps – 14260 - 14270
DK2OM	14271,0	1024	24	09	RUS		PSK2A	120	2600	AT3004D - Penza
DK2OM	14278,0	0959	04	09	RUS		FMOP		12k	OTH radar Contayner – 14272 - 14284 - 40 sps – west of Saransk – long lasting

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14278,0	0837	21	09	CHN		FMOP		10k	Chinese OTH radar – 14273 – 14283 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14284,0	0852	11	09	MNG		FMOP		40k	Mongolian OTHR – 10 sps – 14264 – 14304 – long lasting
DK2OM	14288,0	1237	19	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14282 - 14294
DK2OM	14289,0	0814	10	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14283 - 14295
DK2OM	14295,2	ady	dly	09	TJK		A3E/BC		9k	14295.128 kHz -3x from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14300,0	0842	21	09	CHN		FMOP		10k	Chinese OTH radar – 14295 – 14305 kHz - 30 sps
DK2OM	14301,9	0939	12	09	RUS		OFDM	35.6	2760	OFDM 60 – PSK8B – Moscow
DK2OM	14304,0	1211	05	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14298 - 14153
DK2OM	14310,0	0923	16	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14304 - 14316
DK2OM	14310,0	0941	16	09	CHN		FMOP		10k	Chinese OTH radar – 14305 – 14315 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14315,0	0838	06	09	CHN		FMOP		10k	Chinese OTH radar – 14310 – 14320 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14321,0	0915	15	09	CHN		FMOP		10k	Chinese OTH radar – 14316 – 14326 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14322,0	0922	25	09	CHN		FMOP		10k	Chinese OTH radar – 14317 – 14327 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14325,0	1056	26	09	CHN		FMOP		10k	Chinese OTH radar – 14320 – 14330 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14334,0	1212	05	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14328 - 14340
DK2OM	14334,0	0934	20	09	CHN		FMOP		10k	Chinese OTH radar – 14229 – 14239 kHz - 50 sps – 2.5 sec bursts
DK2OM	14337,0	1002	01	09	CHN		FMOP		10k	Chinese OTH radar – 14332 – 14342 kHz - 50 sps – 5 sec bursts
DK2OM	14337,0	1300	18	09	RUS		FMOP		12k	OTH radar Contayner - 40 sps – west of Saransk – 14331 - 14343
DK2OM	14337,0	0911	25	09	CHN		FMOP		10k	Chinese OTH radar – 14332 – 14342 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14342,0	0903	28	09	CHN		FMOP		10k	Chinese OTH radar – 14337 – 14347 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14345,0	0825	05	09	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14345 – 14505 kHz
DK2OM	14346,0	0918	15	09	CHN		FMOP		10k	Chinese OTH radar – 14341 – 14351 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14348,5	vt	dly	09	THA	HSOZEA	A1A			HSOZEA beacon – 14348.488 kHz - every 5 minutes – daily - just for info!
DK2OM	18061,0	1308	18	09	CYP		FMCW		20k	UK OTH radar Cyprus - 50 sps – 18051 – 18071 kHz
DK2OM	18071,0	0950	26	09	CYP		FMCW		20k	UK OTH radar Cyprus - 50 sps – 18061 – 18081 kHz UK OTH radar Cyprus - 50 sps – 18051 – 18071 kHz
DK2OM	18080,0	0730	18	09	TWN		A3E/BC			Sound of Hope – Taiwan and

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Chinese BC jammer – daily at 06 utc and later
DK2OM	18091,0	0908	21	09	CYP		FMCW		20k	UK OTH radar Cyprus - 50 sps – 18081 – 18101 kHz
DK2OM	18107,0	0943	16	09	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – often - Russian navy – shared band!
DK2OM	18150,0	---	--	09	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	18150,0	---	--	09	RUS		F1B	100	1000	harmonic from 9075 kHz (100 Bd – 500 Hz) - Kaliningrad
DK2OM	21000,0	---	--	09	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21145,0	vt	dly	09	MRC		FSK8	125	1750	ALE, “A” “B301” “C3”, “IR4” “H4” “IR6” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “J52” “GR2” “GS4” “R3” “R301” “R33” “R8” “R5” “Y1” “S51” “S3” “S4” “S512” “S552” “G2” “G501” - various times, daily
DK2OM	21438,0	vt	dly	09	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	---	--	09	THA	HSOZEA	A1A			HSOZEA beacon – every 5 minutes - just for info!
DK2OM	28000,0	---	--	09	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	vt	vd	09	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28000,0	0925	30	09	IRN		AMOP		45k	Iranian radar - 27980 – 28025 kHz – 307 sps – 870 sps alternating
DK2OM	28035,0	0950	13	09	RUS		F3E			Russian taxi - daily
DK2OM	28175,0	0946	13	09	RUS		F3E			Russian taxi
DK2OM	28860,0	0715	07	09	IRN		AM pulse		45k	Iranian radar - 28837 – 28883 kHz – 150 sps – 313 sps alternating – North Iran - daily
DK2OM	29685,0	---	--	09	I		VFT		2300	Italian MIL – Brescia - daily
DK2OM	29699,5	---	--	09	I		VFT		1600	Italian MIL – Brescia - daily

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1950	2105	28	09	POR or MM		USB	2 Portuguese fishermen. Big signals.
IRTS	3550	0630	06	09	F		AM	Group of French HAMS violating the band plan- every single day.
IRTS	3588	1001	14	09	HOL or MM		USB	2 Dutch fishermen. Medium strength signal.
IRTS	3590	0705	13	09	F		AM	Group of French HAMS violating the band plan- daily.
IRTS	3638	0950	09	09	E or MM		USB	2 Spanish fishermen. Good signals.
IRTS	3740	1345	14	09	POR or MM		USB	2 Portuguese fishermen. Huge signal, great audio. A lot of background noise like people talking or machine noise.
IRTS	3750.5	1310	04	09	POR or MM		USB	2 Portuguese fishermen. Strong signals. One of them has bad audio.
IRTS	3756	1730	27	09	RUS		CW	The Pip- very strong. Daily in late afternoon

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
								and all hours of darkness. Bleeding onto WAB frequency of 3760 kHz
IRTS	3759	1845	11	09	POR or MM		USB	2 Portuguese fishermen.
IRTS	5346	0330-0357	06	09	MRC or MM		USB	2 Moroccan fishermen. Irish spot frequency of 5346.5 kHz getting covered.
IRTS	5350	0125	12	09	E or MM		USB	2 Spanish fishermen. Splattering up and down the band. Also on 17 th at 0835z. Also 27 th at 0835z.
IRTS	5400	0730 to 0800	06	09	UK		AM	KBS relay Woofferton with mixing product from 9860 kHz- nearly daily. Sometimes up to 59plus.
IRTS	5398.5	1530	11	09	D		USB	A German HAM calls into a SOTA activation, using a frequency outside of the DL allocation. Noticed a few times over the year involving different HAMs.
IRTS	5398.5	1721	22	09	POL		USB	A Polish HAM calls into a UK SOTA activation. Somebody should tell the HAM community that the UK/EI/US spot frequencies are illegal in most other countries. HAMS must know their own legal allocations.
IRTS	7000	0640	09	09	MRC or MM		USB	2 Moroccan fishermen. Very strong signals.
IRTS	7055	1635	21	09	RUS/ UKR		LSB	Russian-Ukrainian radio war. Huge signals. Heard a few times during the month.
IRTS	7139	1705	02	09			Digital	Big digital signal
IRTS	7187.5	0555	13	09			Digital	Monster digital signal. Gone by 0630z.
IRTS	7193	1445	20	09			Digital	Link-11 clew. Strong.
IRTS	10121	0725	30	09	MRC or MM		USB	2 Moroccan fishermen
IRTS	10122.5	1545	20	09			USB	Unknown male voices. Very weak.
IRTS	14194	0900	12	09			FMOP	Radar from 14194 to 14204 kHz. Monster signals- this part of the spectrum is not usable.
IRTS	14220	0825	19	09			FMOP	Radar from 14220 to 14336 kHz. All frequencies unusable.
IRTS	14263	1320	04	09			FMOP	Radar from 14263 to 14289 kHz. Parts of the 14 MHz band not usable.
IRTS	14295	0812	16	09			FMOP	Radar from 14295 to 14321 kHz. All frequencies unusable.
IRTS	14300	0810	26	09			Digital	Digital signal. Huge strength.
IRTS	14301	0905	12	09			Digital	Huge digital signal. Still on at 1040z. Gone by 1300z.
IRTS	18080	0710	19	09	TWN		AM	Sound of Hope, Taipei. Strong signal. Audible on many days.
IRTS	18155	1721	23	09			FMOP	Radar from 18155 to 18180 kHz. Very strong signals.

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3540.0	1711	22	9			PSK2		AT3004D
MRASZ	3548.0	1741	2	9			F1B	200	
MRASZ	3570.0	1721	26	9			PSK2		AT3004D
MRASZ	3591.0	1722	26	9			PSK2		AT3004D
MRASZ	3699.5	1731	9	9			F1B	200	
MRASZ	3721.0	1651	23	9			F1B	200	

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3737,0	1915	24	9			A1A		"333 18594 18594"
MRASZ	3769,0	1617	25	9			A1A		"24163 14773 67639"
MRASZ	3774,0	1912	24	9			PSK2		AT3004D
MRASZ	3797,0	1913	24	9			A1A		"2000 PLAWANIE OPASNO"
MRASZ	7001,0	1653	30	9			A1A		continous dashes, deliberate disturbance
MRASZ	7016,0	1343	28	9			F1B	250	
MRASZ	7016,0	1655	30	9			F1B	250	
MRASZ	7055,0	0851	2	9			LSB		chaos
MRASZ	7076,0	1615	25	9			OTHR		7074,5-7077,5 kHz, 200 Hz
MRASZ	7076,0	1623	25	9			PSK2		AT3004D
MRASZ	7080,0	1724	26	9			F1B	200	
MRASZ	7170,0	1749	16	9			F1B	200	
MRASZ	7170,0	1755	17	9			F1B	200	
MRASZ	7179,0	1525	30	9			PSK2		AT3004D
MRASZ	10114,2	0801	5	9			F1B	1000	
MRASZ	10114,7	0737	19	9			F1B	1000	
MRASZ	10114,7	0754	27	9			F1B	1000	
MRASZ	10121,0	1335	2	9			F1B	250	
MRASZ	14145,0	0847	5	9			OTHR		14135-14155
MRASZ	14240,0	0757	5	9			OTHR		14233-14246 kHz

OEVSV – Austria – OE3GSA (Gerd)

PZK – Polish group

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
SP3AMO	3526,8	2344	30	09			FSK/RTTY	75	200	MIL [10 lines - 1 3 1 1 3 1] USB
SP5GNI	3527,0	2123	25	9			FMCW		3k	
SP3AMO	3527,0	1841	11	09			PSK		1000	OTHR
SP3AMO	3551,7	1913	3	09			F2B	100	250	MIL
SP3AMO	3580,5	1908	17	09			PSK		2600	SDR
SP3AMO	3581,2	2342	30	09			FSK		1800	
SP5GNI	3581,8	vt	vd	9			FMCW		3k	
SP5GNI	3581,8	2126	9	9			FMCW		3k	+ similar 5k up
SP3AMO	3582,0	1900	17	09			PSK	25	1300	
SP3AMO	3594,0	vt	vd	09			N0N/A1A	36	14	OK0EU - beacon QRPP
SP3AMO	3684,2	1428	1	09			PSK			OTHR
SP3AMO	3698,0	vt	15	09			FSK		350	MIL [10 lines - 1 3 1 1 3 1] USB
SP5GNI	3699,5	2130	9	9			FSK		180	
SP3AMO	3700,0	vt	vd	09			PSK/2B	50	200	MIL [10 lines - 1 3 1 1 3 1] USB
SP5GNI	3700,5	2126	13	9					2k	corpse's skull
SP5GNI	3715,0	vt	vd	9			FMCW		3k	3kHz BW USB with other emissions on different frequencies (jumping)
SP3AMO	3716,0	445	8	09			PSK		700	OTHR
SQ9DHS	3731,0	1800	22	09			J3E_L			Russian-language propaganda
SP3AMO	3741,3	1843	3	09			PSK		200	MIL
SP5GNI	3744,5	1908	1624	9			FMCW		3k	3kHz periodically
SP3AMO	3755,8	1847	3	09	RUS		J3E/US B/FSK		700	[MIL] Russian speaking
SP3AMO	3774,0	716	15	09			PSK		700	MIL
SP5GNI	5362,0	1427	13	9			FMCW		2,5k	12 tones 200 Hz + pilot 5363,5 kHz
SP3AMO	7015,5	vt	30	09			F1B/RTTY	75	200	MIL
SP3AMO	7047,7	1434	1	09			FSK		100	MIL
SP3AMO	7055,0	1037	18	09	UKR		J3E			Russian-language propaganda
SP5GNI	7059,0	1417	13	9			FSK		250	
SP5GNI	7159,3	1643	24	9			FMOP		1,5k	Many tones with spacing about 50 Hz, the strongest in ther lower part of the spaectrum
SP3AMO	7160,0	2024	27	09			J3E_L			Confirm reporting EA6AMM - S9+10

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
SP3AMO	7169,7	1023	18	09			F1B/ RTTY	75	183	MIL
SP5GNI	7181,8	958	17	9			FMOP			12 tones 200 Hz shift w pilot 7183,4 k
SP5GNI	10133,8	1032	6	9						12 tones 200 Hz shift dissapeard 1037
SP3AMO	14007,5	808	30	09			NON			
SP3AMO	14030,0	2353	30	09			NON		700	2 lines
SP5GNI	14071,0	1010	17	9			PSK			Many tones with different spacing
SP5GNI	14145,0	1041	9	9	RUS		FMOP		12k	OTHR, at 1042 it moved to 14164, later to another frequencies. Ocasionasly 2 peaks observerd simultanously.
SP3AMO	14151,7	1438	1	09			PSK		-/+60k	OTHR
SP3AMO	14151,7	1044	18	09			PSK			Multitone emission
SP3AMO	14212,5	810	30	09			PSK			Multitone emission
SP3AMO	14212,7	1439	1	09			PSK		+/-60k	OTHR
SP3AMO	14273,1	821	24	09			PSK		700	Multitone emission
SP3AMO	14274,0	1442	1	09			NON			
SP3AMO	14274,1	813	30	09			PSK		700	Multitone emission
SP3AMO	14335,0	824	24	09			PSK		300	Multitone emission
SP3AMO	18121,8	815	30	09			NON			
SP5GNI	18170,0	1117	9	9						From 18160 to 18180, partially in 17m band, OTHR
SP3AMO	21051,8	1444	1	09			NON			
SP3AMO	21051,8	827	24	09			PSK		800	Multitone emission
SP3AMO	21053,5	817	30	09			NON			
SP3AMO	21112,6	1445	1	09			NON			
SP3AMO	21114,5	818	30	09			NON			
SP3AMO	21173,7	1446	1	09			NON			
SP3AMO	21174,0	19.05	3	09			NON		700	OTHR [PSK]
SP3AMO	21175,5	819	30	09			NON			
SP3AMO	21341,5	823	30	09			PSK		300	Multi-tone emission
SP5GNI	28001,0	928	5	9			FSK			Continous multi-tone transmission witout amplitude modulatuion, highest peak at 28001,05 and about 10 more visible in distances 180 Hz
SP3AMO	28133,5	828	30	09			PSK			Multi-tone emission
SP3AMO	28423,5	830	30	09			NON			
SP3AMO	28432,1	1447	1	09			NON			
SP3AMO	28432,5	830	30	09			PSK		200	4 lines
SP3AMO	28435,0	1135	18	09			PSK			Multi-tone emission
SP3AMO	28632,5	832	30	09			NON			
SP5GNI	28860,0	1049	6	9	IRN		AMOP			Periodical, many tones, shift 300 or 150 Hz, visible from 28828 to 28887 kHz
SP3AMO	28889,5	1458	18	09	AF/AS	BC	A3E			Arabic language - sporadic R3-5 S5-9
SP3AMO	29004,0	835	30	09			NON			
SP3AMO	29031,1	836	30	09			PSK		150	3 lines
SP3AMO	29035,1	1514	18	09			PSK			Multi-tone emission
SP3AMO	29112,2	1517	18	09			FSK			Multi-tone emission
SP5GNI	29335,6	1046	6	9						8 tones 180 Hz shift
SP3AMO	29578,7	1520	18	09			NON			
SP3AMO	29584,0	838	30	09			NON			
SP5GNI	29668,8	1043	6	9			FSK			6 tones 180 Hz shift

REF – France – F5MIU (Francis)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Baud	Sh /Bw	DETAILS
F5MIU	7000	1725	6	9			data		2kHz	Data over band limit
F5MIU	14190	0745	10	9			fmcw		20kHz	OTH Radar pulsed 25ms,S9
F5MIU	14308	0842	16	9			fmcw		20kHz	OTH Radar pulsed 25ms,S9
F5MIU	10120	0845	16	9			fmcw		20kHz	OTH Radar pulsed 25ms,S9+
F5MIU	3533	0805	18	9			usb		3kHz	Spanish fisherman's ?
F5MIU	18050	0741	20	9			fmcw		25kHz	OTH Radar pulsed 40ms,S8
F5MIU	14135	0743	30	9			fmcw		40kHz	OTH Radar pulsed 200ms,S5
F5MIU	14046	1748	30	9			usb		3kHz	2 stations Arabic speaking S8

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAIL
REP	3540	08.00	06	09	G		PSK8			NATO Stanag 4285
REP	3550	08.30	04	09	F		A3E			French amateurs ignoring 80m IARU Band Plan
REP	5351	19.05	26	09	RUS		FMOP		50k	Radar
REP	5362	07.13	20	09	DNK	OUA14	PSK8A		2.4k	STANAG 4285
REP	7025	07.02	10	09	B		J3E-U			Fishery
REP	7025	dly	dly	09		2010	MFSK8			Mil
REP	7039	dly	dly	09	RUS	F	A1A			VLADIVISTOK
REP	7039	dly	dly	09	RUS	M	A1A			MAGADAN
REP	7112	08.10	09	09	RUS		FSK	300	500	FSK encrypted
REP	7130	21.08	12	09	RUS		FSK	75	500	CIS75 encrypted
REP	7140	dly	dly	09	ETH		8k00 A3EGN			BC Eritrea
REP	7180	dly	dly	09	ERI		9k00 A3EGN			Radio Eritrea
REP	10130	11.05	15	09	MRC		J3E-U			Fishery, daily
REP	14140	19.00	11	09	CHN		FMOP	10	100k	OTH
REP	14154	10.20	11	09	CHN		FMOP		10k	OTH
REP	14195	08.07	12	09	RUS		F1B	50	200	Navy
REP	14225	08.11	03	09	CHN		FMOP		10k	OTH
REP	14260	15.05	20	09	RUS		OFDM			OFDM-60
REP	14275	08.10	19	09			FMOP		10k	OTH
REP	14348	09.00	31	09	CHN		FMOP		10k	OTH
REP	18070	10.00	07	09	CYP		FMCW	50	20k	OTH
REP	18080	dly	dly	09	TWN		9k00 A3EGN			Radio Sounds of Hope
REP	21185	15.20	17	09	MRC		J3E-U			Fishery
REP	28735	09.23	22	09	RUS		F3E			Taxis dispatchers

RSGB – United Kingdom – G4DYA (Richard)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	5396.0	1615 1530 1707	09 11 12	09			B7D		6K00E	ISB Link11 CLEW primary user
RSGB	7016.0	2127 0655	29 30	09	RUS		F1B		250	
RSGB	7038.5	ady	dly	09	CZE	OK0EU	A1A			For info: QRP propagation beacon
RSGB	7080.0	1952	24	09			F1B		200	
RSGB	7110.0	1654	19	09			F1B		200	
RSGB	7111.0	1304 1655 0941	17 19 26	09	RUS		F1B		250	
RSGB	7114.0	1921 2130 1706	12 17 19	09			F1B		200	
RSGB	7137.0	1920 2208 1908 1708	02 04 15 17	09			F1B		200	
RSGB	7140.02	1743	29	09	ERI	VoBM1	A3E			BC
RSGB	7159.0	2007	14	09			F1B		200	
RSGB	7170.0	1912 2007 1534 1518 0614	13 14 16 17 18	09	RUS		F1B		200	
RSGB	7178.0	1100	30	09			J7D		2K70E	USB 7176.0 / CIS-12. Ceased at 1103
RSGB	7179.0	1840	16	09			J7D		2K70E	USB 7177.0 / CIS-12

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
		1635	19							
RSGB	7186.0	2206	04	09			R7D		3K30E	USB 7184.0 / CIS-12
RSGB	7180.02	1657 1519 1631 1525 1708	12 17 19 20 29	09	ERI	VoBM2	A3E			BC
RSGB	7192.0	1523	20	09			F1B		250	
RSGB	7200.0	1622	04	09			P0N		14K0E	Radar bursts. 40 sps
RSGB	10100.8	ady	dly	09	D	DDK9	F1B	50	450	For info: Primary user: WX broadcast
RSGB	10119.0	0807	16	09	RUS		P0N		14K0E	Container OTH radar. 40 sps
RSGB	14008.0	1043	12	09	RUS		F1B	50	500	
RSGB	14049.0	1027	12	09			J7D		2K70E	USB 14047.0 / CIS-12
RSGB	14054.0	0958	12	09			J7D		2K70E	USB 14054.0 / CIS-12
RSGB	14090.9	0702	12	09	RUS		J7D		2K80E	USB 14089.0 / CIS-60
RSGB	14141.0	1059	05	09	RUS		P0N		14K0E	Container OTH radar. 40 sps
RSGB	14200.0	1245	10	09	RUS		P0N		12K0E	Container OTH radar. 40 sps
RSGB	14210.0	1138 1248	09 10	09	RUS		P0N		12K0E	Container OTH radar. 40 sps
RSGB	14258.0	0651- 0700	04	09	RUS		P0N		14K0E	Container OTH radar. 40 sps
RSGB	14271.0	1044	24	09	RUS		J7D		2K70E	USB 14269.0 / CIS-12
RSGB	14278.0	1357	04	09	RUS		P0N		14K0E	Container OTH radar. 40 sps
RSGB	14301.9	1002	12	09			J7D		2K80E	USB 14300.0 / CIS-60
RSGB	14309.0	0730	16	09	RUS		P0N		14K0E	Container OTH radar. 40 sps
RSGB	18070.0	1030	12	09			P0N		20K0E	OTH radar
RSGB	21390.0	0834	13	09			P0N		20K0E	OTH radar

RSK – Kenya – 5Z4BV (Kamweti)

Soc	kHz	UTC	dd	mm	ITU	ident	MODE	Shift	Details
RSK	7040	v.t.	nr.dly	9	E. Africa	?	J3E-1		Kiswahili QSO
RSK	7089,1	v.t.	nr.dly	9	Central Africa?	?	J3E-u		French/vernacular msg net
RSK	7120	v.t.	dly	9	?		A3E		Carrier and weak broadcast; unconfirmed identity
RSK	7130	v.t.	28	9	E./Central Africa	?	J3E-1		Kiswahili/vernacular QSO
RSK	7140	v.t.	occ.	9	Eritrea	VoB	A3E		Commercial broadcast - Voice of the Broad Masses of Eritrea 1
RSK	7148	v.t.	27	9	?	?	J3E-1		English Vernacular QSO Military/Police
RSK	7150	v.t.	nr.dly	9	Kenya/E. Africa	?	MFSK	2000	2G ALE
RSK	7165	0345	24	9	Western Indian Ocean	?	J3E-u	2500	Sino/Chinese QSO
RSK	7180	v.t.	occ.	9	Eritrea		A3E		Commercial broadcast - Voice of the Broad Masses of Eritrea 2

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000.0	0855- 1507/	*	9	RUS	UiMUX	PSK2	120	2600	Days: 18. 19. 25.
SRAL	7001.0	1100	15	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7006.0	-1535/	11	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7006.5	0650- 0920/	18	9	RUS	UiPTR	F1B/ NON		250	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7008.0	1415-1430/	6	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7008.5	0920-0928/	23	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7016.0	0510-1830	29 30	9	RUS	UiPTR	F1B		250	
SRAL	7018A	0600-0650	3 11	9		UiPTR	F1B/ NON		500	unstable fq
SRAL	7020.0	1225-1330	15	9	RUS	UiPTR	F1B		250	
SRAL	7022.0	1030-1800	10 25	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7030.0	1540	17	9		UiMUX	PSK2	120	2600	
SRAL	7037.0	0600-0700	2	9		UiMUX	PSK2	120	2600	
SRAL	7044.0	0450-1455/	*	9	RUS	UiPTR	F1B/ NON		250	Days: 19. 26. 30.
SRAL	7049.0	1030-1207/	11	9	RUS	UiPTR	F1B		200	
SRAL	7051.0	1405	18	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7059.0	1400-1617/	13	9	RUS	UiPTR	F1B/ NON		250	
SRAL	7061.0	0930-1300	13	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7076.0	0530-0552/	8	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7111.0	0530-1330	17 23	9	RUS	UiPTR	F1B		250	
SRAL	7114.0	'0530	18	9	RUS	UiPTR	F1B/ NON		200	
SRAL	7122.0	1130-1145	28	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7127.0	1230	28	9	RUS	XBD9	A1A			5F
SRAL	7118.0	1215-1230	7	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7137.0	1600-1830	6 17	9	RUS	UiPTR	F1A/B NON		200	
SRAL	7140,0	0500-0615	*	9	ERI	VoBME	A3E			Days: 25. - 29.
SRAL	7140,0	1415-1942/	*	9	ERI	VoBME	A3E			Days: 25. - 29.
SRAL	7154.5	1330-1400	9	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7168.0	0945-1230	20	9		UiCW	A1A			5F, 5BL
SRAL	7169.0	1430-1610/	11	9		UiPTR	F1B/ NON		250	
SRAL	7170.0	0430-1900	*	9	RUS	UiPTR	F1B		200	Days: 10. 14. - 18.
SRAL	7171.0	1300-1400	7 18	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7174.5	1415-1616/	28	9	RUS	UiPTR	F1B/ NON		250	
SRAL	7175.0	1645-1730/	9 10	9	RUS	UiCarr	NON			
SRAL	7178.0	1030	30	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7179.0	1430-1800	*	9	ship	UiMUX	PSK2	120	2600	Days: 11. 16. 18. 25.
SRAL	7180.0	0330-0615	*	9	ERI	VoBME	A3E			Days: 1. 2. 3. 12. 13. 14. 18. - 29.
SRAL	7180.0	1400-1842/	*	9	ERI	VoBME	A3E			Days: 1. 2. 3. 12. 13. 14. 18. - 29.
SRAL	7182.0	0945-1000	17	9	RUS	UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7186.0	0540-1845	4 13	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7188.0	0800-1115	27 28	9	RUS	UiPTR	F1B			
SRAL	7192.0	1530-1640/	20	9	RUS	UiPTR	F1B		250	
SRAL	7196.0	1530-1600/	24	9	RUS	UiPTR	F1B		200	
SRAL	7198.0	0830-0943/	27	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7200.0	1145-1150/	21	9	RUS	Kontainer	FMCW			50Hz/14kHz
SRAL	7 MHz	1030-1215	24	9	CHN	UiOTHR	FMCW			10Hz/10kHz
SRAL	10 MHz			9	CYP	UiOTHR	FMCW			25/50Hz, 20kHz, (WebSDR 12d)
SRAL	10 MHz			9	CHN	UiOTHR	FMCW			10Hz/ 10kHz
SRAL	10MHz	0730-1515/	*	9	RUS	Kontainer	FMCW			40Hz/15kHz, days: 4. 5. 10. 16. 23. (WebSDR 10d)
SRAL	14 MHz	0745-0950	20 26	9	CHN	UiOTHR	FMCW			10Hz/ 10kHz
SRAL	14 MHz	/0725-1500	*	9	RUS	Kontainer	FMCW			40Hz/ 15kHz, days: 4. 5. 10. 16. 20. 23. (WebSDR 10d)
SRAL	14171.0	'0955	22	9	RUS	UiMUX	PSK2	120	2600	
SRAL	14200.0	0825-0910	12	9	RUS	Kontainer	FMCW			50Hz/ 10kHz
SRAL	14215.0	0815-0820/	24	9	RUS	Kontainer	FMCW			50Hz/ 10kHz
SRAL	14221.0	0400-0600/	dly	9	KAZ	UiPTR	F1B		200	
SRAL	14269.0	1125-1225	24	9		UiPTR	F1B/ N0N		250	
SRAL	14271.0	1050	24	9	RUS	UiMUX	PSK2	120	2600	
SRAL	14282.0	1055	8	9	RUS	UiMUX	PSK2	120	2600	
SRAL	14295.2	0400-1830	1 2	9	TJK	R Tojikiston	A3E			3f
SRAL	14302.0	'0700	26	9	RUS	UiMUX	PSK2	120	2600	Also usb on 14300 "na priome"
SRAL	18 MHz	0645-1245	*	9	CYP	UiOTHR	FMCW			25/50Hz/20kHz, days: 12.14. 21. 24. (WebSDR 14d)
SRAL	18 MHz			9	RUS	Kontainer	FMCW			40Hz/15kHz (WebSDR 0d)
SRAL	18080.0	0645-0800	*	9	TWN	Sound of Hope	A3E			CHN jam by BC, days: 7. 12. 16. 18. 19. 22. 29.
SRAL	18107.0	'0905	12	9	RUS	RDL	F1A		200	
SRAL	18150.0	'0825	11	9	RUS	UiPTR	F1B		1000	2f
SRAL	21 MHz			9	CYP	UiOTHR	FMCW			25/50Hz/20kHz, (WebSDR 3d)
SRAL	21438.0	/0830-1045	*	9	RUS	RCV	A1A			Days: 3. 6. 7. 12. 13. 21. 22. 28.
SRAL	24 MHz			9		UiOTHR	FMCW			(WebSDR 1d)
SRAL	28 MHz			9	IRN	UiOTHR	FMCW			307 & 870Hz / 60 kHz.
SRAL	28860.0	0500-1000	*	9	IRN	UiOTHR	FMCW			150 & 313Hz / 60 kHz. Days: 6. 7. 8. 12. 19.
SRAL	28 MHz			9	CYP	UiOTHR	FMCW			50Hz/ 20kHz
SRAL	28 MHz	0815-1315	*	9	RUS	Taxi disp.	F3E			13 reports, days: 6. 11. 17.

URE – Spain – EA6AMM (Gaspar)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
URE	7080	19:54	27	9			F1B	200		
URE	7160	20:02	27	9			J3E-L			BC Bursts being retransmitted by unid st. Arabic prayers. Link to video: https://archive.org/details/7160lsb270920192002utc
URE	10110	16:48	23	9			FMOP		10k	OTH Radar bursts
URE	10114.8	VT	VD	9	RUS		F1B			
URE	14220 USB	09:00	28	9					40 k	CODAR Radar
URE	101126	20:22	27	9			J3E-U			Unid people chatting
URE	14350	11:55	3	9			N1N			Two tone modulated carrier long lasting until OTH Radar container starts at 12:00 UTC
URE	14302	08:06	16	9	RUS		FMOP		13k	OTH Radar Container. RUS. Long-lasting.
URE	14350	12:00	3	9			FMOP		13k	OTH Radar Container. RUS, Bursts from 14350 to 14363. Splatter from 14340 kHz

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m + 60m band informational only!										
USKA	3525.0 USB	2223	19	09			G1D PSK-8	2400	2k7	LINK 11 SLEW
USKA	3525.0	2206	24	09			DQPSK	14x75	~ 6k1	LINK 11 DSB often
USKA	3527.0	2136	25	09			F1B	50	200	daily
USKA	3527.0	2137	25	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
USKA	3532.0	2127	16	09			DQPSK	14x75	~ 6k1	LINK 11 DSB often
USKA	3548.0	2119	16	09			F1B	50	200	
USKA	3549.0 USB	2116	16	09			G1D PSK8	2400	2k7	MIL 188-110A mod (Hybrid) preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3570.0	2112	21	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
USKA	3580.0 USB	2122	16	09			G1D PSK8	2400	2k7	Stanag 4285 almost daily
USKA	3588.0	2141	25	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
USKA	3601.0	1958	23	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
USKA	3610.0	2000	23	09			DQPSK	14x75	~ 6k1	LINK 11 DSB often
USKA	3631.0 USB	2004	23	09			G1D PSK8	2400	2k7	MIL 188-110A mod (Hybrid) preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	3697.0 USB	2211	24	09			G1D PSK8	2400	2k7	MIL 188-110A D2 mod (Hybrid); preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	3715.0	2114	21	09			G1D PSK8	2400	2k7	Stanag 4285 almost daily
USKA	3732.8	2002	23	09			G1D PSK8	2400	2k7	MIL 188-110A mod (Hybrid); preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	3732.8	2002	23	09			G1D PSK8	2400	2k7	MIL 188-110A mod (Hybrid); preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	3741.5	2118	21	09			F1B	50	200	often
USKA	3774.0	2216	24	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
USKA	5359.0 USB	2228	20	09			G1D PSK8	2400	2k7	LINK 11 SLEW (legal !)
USKA	5365.0	2146	27	09			P0N	43 sps	40k	OTHR (weak in HB9, strong in JA) 5345-5385 kHz
USKA	7000.0	0753	25	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
USKA	7016.0	0947	02	09			F1B	75	250	often
USKA	7020.0	2147	25	09			F1B	xx	200	
USKA	7022.0	1551	25	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D;

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
										idling
USKA	7030.0	1519	16	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D often
USKA	7032.0	0842	24	09			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D
USKA	7035.0	1929	17	09			F1B	75	250	
USKA	7039.4	2239	24	09		M	A1A			Magadan (very weak) daily
USKA	7044.0	1312	26	09			F1B	50	250	
USKA	7051.0	1343	18	09			J7D	12x120	2k7	BPSK; CIS12 aka AT3004D
USKA	7080.0	1952	23	09			F1B	50	200	
USKA	7122.0	1632	24	09			F1B	75	200	
USKA	7137.0	1934	17	09			F1B	50	200	
USKA	7140.0	1541	25	09	ERI	VOBM	A3E		~ 9k	BC
USKA	7170.0	1514	16	09			F1B	75	200	often
USKA	7178.0	1033	30	09			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D often
USKA	7179.0	1209	25	09			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D often
USKA	7179.3.0	1033	30	09			A1A			Jammer: long lasting dash's over the pilot tone of CIS12; stupid and illegal !
USKA	7180.0	1731	02	09	ERI	VOBM	A3E		~ 9k	BC often
USKA	7197.0	1706	24	09	TUR	375013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	1717	24	09	TUR	334013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	1844	24	09	TUR	316013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	1904	24	09	TUR	337013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	1957	24	09	TUR	306013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2001	24	09	TUR	367013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2019	24	09	TUR	331013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2044	24	09	TUR	314013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2058	24	09	TUR	347013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2105	24	09	TUR	317013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2141	24	09	TUR	348013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2145	24	09	TUR	302013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	14007.75	1001	18	09			A1A			Jammer, fast dots; stupid and illegal !
USKA	14008.0	1001	18	09			F1B	50	500	often
USKA	14062.0	0850	27	09			FMOP	67 sps	10k	OTHR; Bursts
USKA	14113.495	0706	26	09			F1B	600	600	ARQ
USKA	14132.0	1326	23	09			FMOP	xx	~ 10k	OTHR; few short bursts only
USKA	14132.0	0818	26	09			FMOP	40 sps	~ 12k	OTHR, Contayner 29B6
USKA	14137.0	0801	26	09			FMOP	xx	~ 10k	OTHR; only short emission
USKA	14140.0	1034	23	09			FMOP	xx	~ 10k	OTHR; few short bursts only
USKA	14144.0	0859	27	09			FMOP	xx	~ 10k	OTHR; few short bursts only
USKA	14169.0	0929	16	09			F1B	50	200	often
USKA	14171.0	1517	25	09			J7D	12x120	2k7	PSK-4; CIS12 aka AT3104D
USKA	14172.0	1009	23	09			FMOP	xx	~ 10k	OTHR; few short bursts only
USKA	14175.0	1136	26	09			FMOP	40 sps	~ 12k	OTHR, Contayner 29B6
USKA	14181.0	1041	26	09			FMOP	xx	~ 10k	OTHR; few short bursts only
USKA	14190.0	1138	26	09			FMOP	40 sps	~ 12k	OTHR, Contayner 29B6
USKA	14221.0	0554	26	09			F1B	50	200	often
USKA	14242.0	0745	19	09			J7D	12x120	2k7	CIS12 idling
USKA	14259.0 USB	0854	02	09			OFDM60	30	~ 2.75k	PSK-4; spacing 44.45Hz; pilottone
USKA	14271.0	0940	23	09			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D often
USKA	14272.0	0920	27	09			F1B	50	500	
USKA	14299.0	0752	20	09			FMOP	xx	10k	OTHR
USKA	14300.0 USB	0716	26	09			OFDM60	30	~ 2.79k	PSK4; spacing 44.45Hz; pilottone
USKA	14309.0	0826	26	09			FMOP	67 sps	10k	OTHR; Bursts
USKA	14310.0	0940	16	09			FMOP	67 sps	10k	OTHR; Bursts
USKA	14318.435	0612	26	09			F1B	600	600	ARQ
USKA	14320.0	0604	26	09			xxx	67 sps	10k	OTHR; Bursts

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	14341.8	1224	25	09			OFDM	xx	3k0	spacing 46.85Hz
USKA	18070.0	1037	26	09			FMCW	50 sps	20k	OTHR UK base Cyprus
USKA	18080.0	0752	19	09			A3E		~ 10k	BC: Chinese often
USKA	18090.0	0856	21	09			FMCW	50 sps	20k	OTHR UK base Cyprus
USKA	18107.0	1007	02	09	RUS	RDL	F1B	36/50	200	CIS 36-50; almost daily TDoA: area of Moscow
USKA	18140.0	1001	23	09			FMxx	67 sps	10k	OTHR; Bursts
USKA	28000.0	1116	30	09			xxx	307+ 870 sps	~ 50k	OTHR, Bursts alternating sweep rates
USKA	28050.0	1124	30	09				25 sps	20k	OTHR
USKA	28350.0	1128	30	09				50 sps	20k	OTHR
USKA	28860.0	1058	30	09			xxx	150 + 313 sps	~ 45k	OTHR, Bursts often alternating sweep rates

Veron – Netherlands – PG1R (Ruud)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3527,0	2000	30	09	CIS	UiPTR	F1B		Revs/Ptr
VERON	3548,0	1858	13	09		UiPTR	F1B		Ptr
VERON	3548,0	1915	13	09	RUS	RDL	F1A		5F strongly jammed by radio amateur
VERON	3552,0	1910	13	09	CIS	UiPTR	F1B		Revs/Ptr
VERON	3627,0	1907	13	09		UiCW	A1A		158 121 30 46594 76615 5F
VERON	3680,0	1903	03	09		UiPTR	F1B		Ptr
VERON	3700,0	1932	11	09		UiPTR	F1B		Revs/Ptr
VERON	3762,0	1912	11	09	CIS	UiCW	A1A		5F
VERON	3762,0	1915	11	09	RUS	RIT	A1A		RJU49 de RIT QSA ? QTC K
VERON	3762,0	1919	11	09	RUS	RIT	A1A		RJU49 de RIT 776 29 11 2122 776 = SML = 22222 54156 5F
VERON	3797,0	1902	13	09	RUS	RCV	A1A		RIC87 de RCV QTC 201 76 13 0021 201 = Destwue Prip Noworossijsk
VERON	3797,0	1910	03	09	RUS	RCV	A1A		RIC87 de RCV QTC 117 Dejstwue Prip Noworossijsk
VERON	3797,0	1917	03	09	RUS	RCV	A1A		RIC87 de RCV QTC 115 48 2 2122 115 = Prip Noworossijsk
VERON	7040,2	1319	25	09		UiCar	NON		Long lasting unstable carrier; S7; QSB
VERON	7080,0	1858	27	09	CIS	UiPTR	F1B		Revs/Ptr
VERON	7111,0	1001	26	09		UiPtr	F1B	250	Ptr MIL
VERON	7137,0	1745	02	09	CIS	UiCW	F1A		XXX followed by F1B Revs/Ptr
VERON	7171,00	1900	13	09	UKR	UiPtr	F1B	200	Ptr
VERON	14008,0	0920	18	09	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14008,0	0925	18	09	RUS	UiPtr	F1B	500	Ptr nr. Moscow
VERON	14008,0	1103	01	09	RUS	UiPtr	F1B	500	Ptr nr Moscow
VERON	14008,0	1307	01	09	RUS	UiPtr	F1B	500	idle
VERON	14008,0	1317	19	09	RUS	UiPtr	F1B	500	Idling; S5; nr Moscow
VERON	14093,0	1025	06	09		UiPtr	F1B	250	Ptr MIL
VERON	14100,0	0935	11	09		UiMux	MPSK		12 MPSK Belarus
VERON	14119,0	1057	12	09		UiCAR	NON		carrier
VERON	14144,0	0954	16	09		OTHR	FMOP		short period
VERON	14144,0	1148	05	09		OTHR	FMOP		radar
VERON	14168,0	0944	16	09		UiPtr	F1B		Ptr
VERON	14187,0	1200	05	09	RUS	OTHR	FMOP		radar
VERON	14204,0	1128	09	09	RUS	OTHR	FMOP		radar, nr Samara
VERON	14240,0	0747	19	09	RUS	UiMux	PSK		AT3004-D
VERON	14279,0	0950	04	09	RUS	OTHR	FMOP		radar, nr. Samara
VERON	14301,0	1041	12	09		UiMux	PSK		OFDM
VERON	18080,0	1100	27	09	CYP	OTHR		20k	20 khz wide
VERON	18107,0	0926	13	09	CIS	UiPTR	F1B		Revs/Ptr
VERON	18107,0	0925	18	09	RUS	RDL	F1A		RDL 63389 14561 K

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	21438,0	09.29	16	9	RUS	RCV	A1A		RIP90 DE RCV QTC 436 27 13 1340 436 BT NAWIP 032 1632 KARTA 33210 TURCIAA STRELSEBY ARTILLERIJSKI (etc)

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

All our friends and contributors worldwide!

Many thanks for your interest!

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