



Monitoring System

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The monthly newsletter for Region 1

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Acknowledgements

ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4BV - Kamweti ++ DARC: DK2OM – Wolf ++ EARS: A61M – Obaid ++ ERASD: SU1SA – Sayed ++ HRS: 9A5DGZ – Gianluca ++ IARC: 4Z1AB – Amos ++ IRTS: EI3GYB - Michael KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ NRRL: LA4EU – Hans Arne ++ OEVS: OE3GSA – Gerd ++ PZK: SP5GNI - Miro ++ RAL: OD5RI – Riri ++ REF: F5MIU – Francis ++ REP: CT4AN – Jose ++ ROARS: A41MA - Younis ++ RSGB: G4DYA - Richard ++ SARL: ZS6NS - James ++ SRAL: OH2BLU - Pekka ++ SSA – N.N. ++ UBA: ON5NQ – Frank +++ URE: EA6AMM - Gaspar ++ USKA: HB9CET - Peter ++ VERON: PG1R - Ruud ++ ZRS: S56ZDB – Darko ++ LU1BCE – Carlos (Co-ordinator Region 2) ++ YB3PET – Titon (Co-ordinator Region 3) ++ DF8FE – (Webmaster supp.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ 9K2RR – Faisal (EC-IARU-R1) ++ PTTs: BAKOM (Swiss) ++ OFCOM (UK) ++ Dutch AT ++ Austrian PTT

Part 1: News and Infos

1. Propaganda and insulting transmissions on 7055 kHz (+/-) on LSB

Such transmissions were daily observed since 5 years. Licensed amateurs from Ukraine and Russia were insulting each other on SSB. Playbacks of BC transmissions were often emitted, too. **PSE observe: The amateurs on this QRG were no illegal intruders!** - screenshot on 7051.7 kHz RF (digital SSTV waterfall)

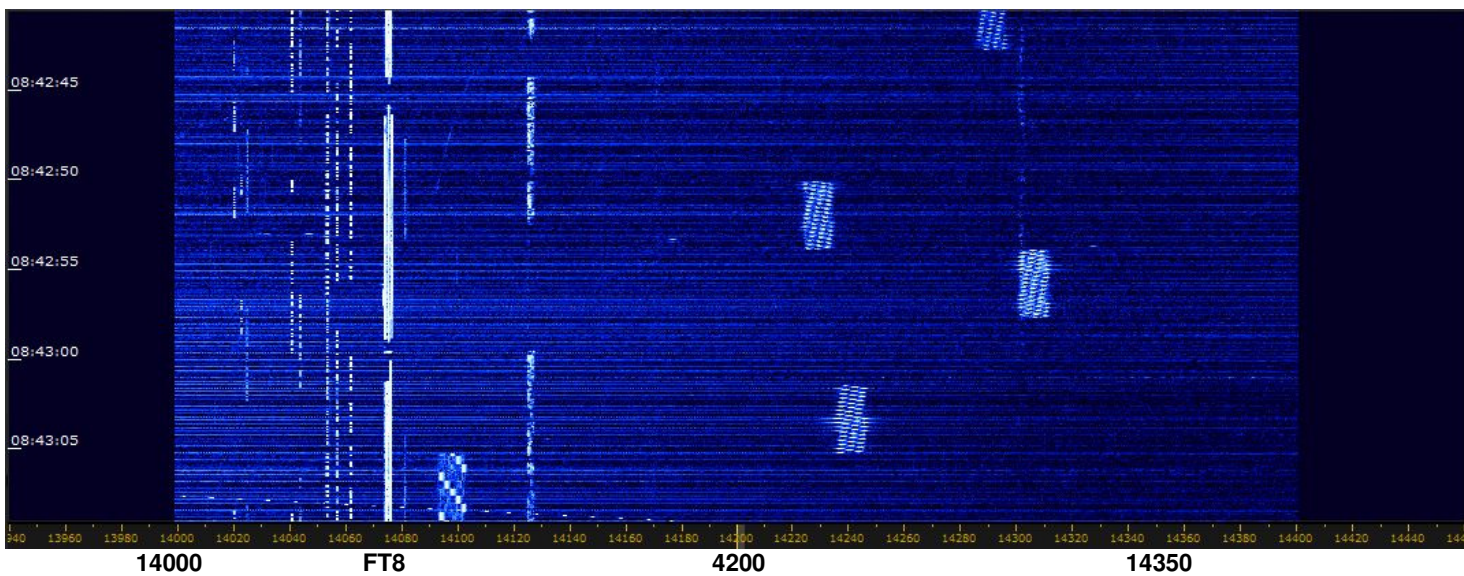


Insulting actions do not solve political or personal problems and do not fit to Amateurradio.

The main purpose of Amateurradio is to establish friendship between all people of the world without regarding personal opinions and political or religious backgrounds!

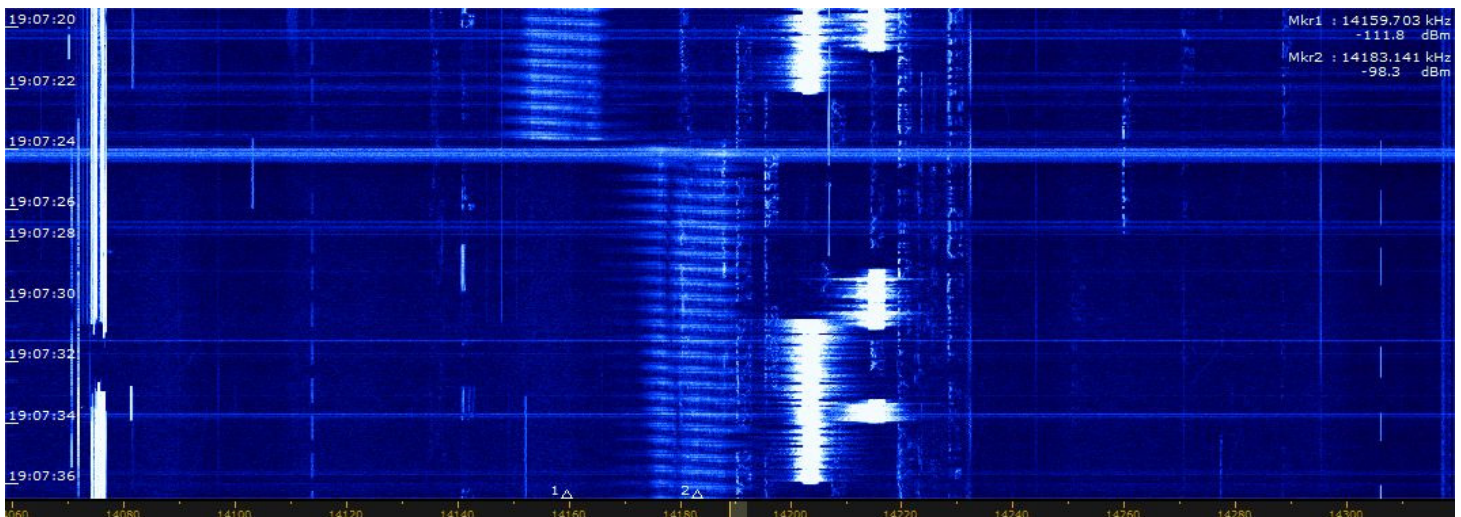
2. Chinese OTH radars on 14 MHz

Chinese OTH radars were very active on our 14 MHz-band. The screenshot below is showing jumping Chinese OTH radars, HAM CW signals and FT8. - Perseus screenshot on 20 July at 0842 utc

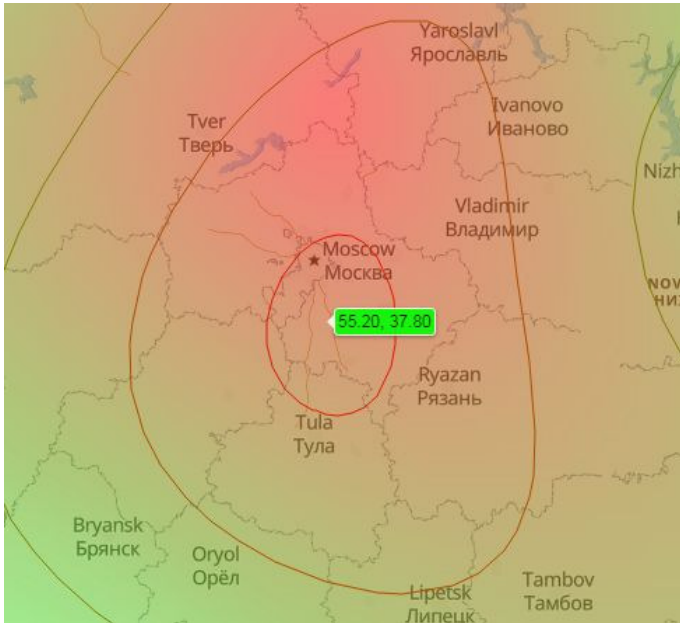


3. Russian OTH radar Contayner jumping on 14 MHz

The Russian OTH radar Contayner was jumping on 14 MHz on 11 July at 1907 utc.



4. TDoA bearings



7057 – AT3004D (CIS 12) – area of Moscow



14221 – F1B – north-west of Almaty (Kazakhstan)

5. Russian F1B (= FSK) on 14261.5 kHz

We found a Russian F1B with 75 Bd and 200 Hz shift on 14261.5 kHz on 24 July and the following days. The location was St.Peterburg. The German BNetzA was informed.

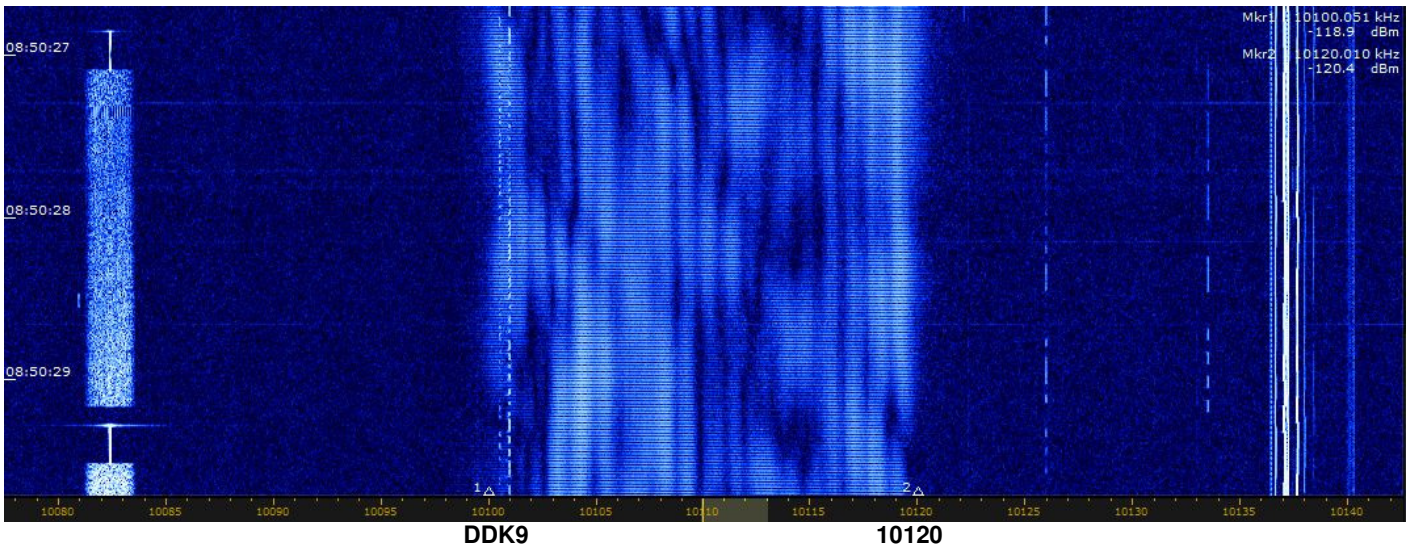
6. Russian F1B harmonic on 18150 kHz

A Russian F1B appeared on 18150 kHz on 12 July at 0744 utc. Parameters: 100 Bd – 1000 Hz shift. Source: RUS MIL Kaliningrad F1B on 9075 kHz with 100 Bd and 500 Hz shift producing harmonic products.

7. UK OTH radar Cyprus on 10 MHz

We observed the UK radar Cyprus on 10100 - 10120 kHz on 13 July. Parameters: FMCW, 50 sps, 20 kHz wide

Screenshot: UK OTH radar Cyprus on 10 MHz – The German Weatherservice **DDK9** on 10100.8 kHz (F1B-Baudot 50 Bd / 450 Hz shift) could not be decoded.



8. Miscellaneous news:

- 7140 and 7180 kHz – A3E/BC – VOB Eritrea
- 14295.0 kHz – harmonic from Radio Tajik on 4765 kHz (no change regardless many complaints)
- 28000 – 28500 kHz – many fishery driftnet buoys and few GPS buoys
- 28000 – 29700 CIS taxi services – FM (F3E)

9. 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 (unid) = 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

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	1812,0	vt	vd	07	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad
DK2OM	1855,0	1938	29	07	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1925,0	vt	vd	07	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3503,5	vt	dly	07	G	no ITU	FSK8	125	1750	ALE – British MIL Tascomm – shared band - legal!
DK2OM	3525,0 RF	---	--	07	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2000	dly	07	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	1950	14	07	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: full hour + 40 min - daily
DK2OM	3532,0	2045	18	07	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3539,2 RF	1916	10	07	G		PSK8A	2400	2400	Stanag-4285 – 600 bps long – area of Falmouth
DK2OM	3550,0	0630	dly	07	F		A3E			French amateurs not respecting bandplans – every morning
DK2OM	3550,7	---	--	07	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – shared band!
DK2OM	3553,8	ady	dly	07	TUR		PSK8A	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3580,0 RF	1800	dly	07	TUR		PSK8A	2400	2400	Stanag-4285 – 600 bps long – Ankara – shared band!
DK2OM	3585,0	ady	dly	07	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!
DK2OM	3585,0	2100	06	06	E		USB			Spanish fishery
DK2OM	3586,0	vt	dly	07	HOL		PSK2A	40	40	Amsterdam - daily
DK2OM	3592,0	1850	23	07	G		PSK8A	2400	2400	Stanag-4285 – 600 bps long - area of Falmouth – shared band
DK2OM	3601,0	1850	28	07	RUS		F1B	75	250	se of Moscow - shared band!
DK2OM	3622,5	ady	dly	07	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!
DK2OM	3756,0	1800	dly	07	RUS		USB			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG
DK2OM	3756,0	2030	30	07	RUS		F1B	50	200	Kaliningrad - shared band!
DK2OM	5350,0	---	--	07	RUS		FMOP		50k	Russian coastal radar

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										“Sunflower” – 43 sps – 5350 – 5400 kHz - Makhachkala
DK2OM	5350,0	1855	13	07	E		USB		2400	5350.0 – 5352.4 kHz - Spanish fishery splattering up – often in the evenings
DK2OM	5360,5	---	--	07	RUS		F1B	50	200	Moscow - legal
DK2OM	5361,8 RF	---	--	07	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user !
DK2OM	7000,0	vt	dly	07	INS		LSB USB			Indonesian pirates - singing and playing music - daily
DK2OM	7000,0	1921	06	07	RUS	F	A1A			spurious from 7039.2 - Cluster beacon „F“ - Vladivostok RUS
DK2OM	7000,0	2018	22	07	UKR		PSK2A	120	2600	AT3004D – 6998.0 – 7001.3 kHz – East-UKR – west of Alchevsk
DK2OM	7005,0	vt	dly	07	INS		LSB			Indonesian pirates
DK2OM	7010,0	vt	dly	07	INS		LSB			Indonesian pirates
DK2OM	7010,0	1428	17	07	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7015,0	vt	01	07	RUS		FMOP		103k	coastal radar „Sunflower“ – 43 sps – 6905 – 7015 kHz with spurious – east of Vladivostok
DK2OM	7015,0	vt	dly	07	INS		LSB			Indonesian pirates – male and female voices
DK2OM	7016,0	1910	18	07	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 7016 – 7176 kHz
DK2OM	7020,0	vt	vd	07	ALB		FSK8	125	1750	ALE, “CS004A” “RS004D” “CS004” - daily
DK2OM	7022,0	1605	31	07	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7025,0	vt	dly	07	INS		LSB			Indonesian pirates singing
DK2OM	7030,0	1623	18	07	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 7030 – 7190 kHz
DK2OM	7035,0	vt	dly	07	INS		LSB			Indonesian pirates singing
DK2OM	7039,2	---	--	07	RUS	„F“	A1A			Cluster beacon „F“ - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	---	--	07	RUS	„K“	A1A			Cluster beacon “K” Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	7039,4	1945	22	07	RUS	„M“	A1A			Cluster beacon „M“ – Magadan RUS Navy – „RTS“ - daily
DK2OM	7054,0	1900	31	07	UKR		USB		2400	picture propaganda transmissions – south east of Lviv
DK2OM	7055,0	vt	dly	07	UKR		LSB			music and Russian voices
DK2OM	7057,0	1829	02	07	RUS		PSK2A	120	2600	AT3004D – submode idle - Moscow
DK2OM	7078,4	1920	06	07	RUS	F	A1A			spurious from 7039.2 - Cluster beacon „F“ - Vladivostok RUS Navy - “RJS”
DK2OM	7088,8	0727	28	07	S	SLOFRO	A1A			7088.820 kHz - cw-trainee, Sweden - SLOFRO – often - just for info!
DK2OM	7089,8	---	--	07	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft ? west of Izmir
DK2OM	7108,0	vt	30	07	CHN		PSK4A	60	2350	PRC 30 tone modem - LSB mode - pilot tone 450 Hz
DK2OM	7111,0	1648	21	07	RUS		F1B	75	250	Moscow
DK2OM	7111,0	vt	04	07	CHN		PSK4A	60	2350	PRC 30 tone modem - LSB mode - pilot tone 450 Hz
DK2OM	7120,0	1553	09	07	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	7126,0	vt	30	07	CHN		FSK8	125	1750	ALE, „111“ „311“
DK2OM	7128,0	2016	11	07	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza - jumping
DK2OM	7137,0	vt	dly	07	TWN		FSK8 LSB	125	1750	ALE, MIL-188-141A, “FBABA” “FWKMB” “FXIBY” “FCPSL” “FHKHD” “FVIKE” “FHVWY”

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										“FCUGP” “FDRRK” “FWIML” ”FBQCY” ”FCEAX” Taiwanese navy
DK2OM	7138,0	1908	22	07	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7138 – 7150 kHz
DK2OM	7140,0	vt	vd	07	ERI		A3E		9k	7140.024 kHz - Radio Eritrea
DK2OM	7140,0	1248	08	07	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	7142,0	1558	30	07	RUS		PSK2A	120	2600	AT3004D
DK2OM	7155,0	2018	11	07	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza - jumping
DK2OM	7157,0	1905	10	07	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7157 – 7189 kHz
DK2OM	7160,0	1926	12	07	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7160 – 7190 kHz
DK2OM	7174,5	1238	08	07	RUS		F1B	75	200	St. Peterburg
DK2OM	7179,0	1845	02	07	Med. Sea		PSK2A	120	2600	AT3004D – RUS ship west of Cyprus – north-east of CYP on 07.07.2019
DK2OM	7180,0	vt	vd	07	ERI		A3E		9k	7180.022 kHz - Radio Eritrea
DK2OM	7192,0	2024	11	07	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza - jumping
DK2OM	7193,0	---	--	07	RUS	RDL	F1B	50	200	CIS36-50 - Kaliningrad
DK2OM	7197,0	vt	dly	07	TUR		FSK8	125	1750	ALE, „353013“ „334018“ „314013“ - Turkish Sivil Avunma – Turkish Civil Defense
DK2OM	7200,0	---	--	07	RUS		PSK2A	120	2600	AT3004D – 7198.7 – 7201.3 kHz – Kaliningrad
DK2OM	10100,8	ady	dly	07	D	DDK9	F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10103,2 RF	1424	14	07	RUS		PSK2A	120	2600	10103.17 RF - AT3004D
DK2OM	10108,0	0954	13	07	RUS		F1B	50	200	QTF not possible
DK2OM	10110,0	0810	13	07	CYP		FMCW		20k	UK OTH radar – Cyprus – 50 sps – 10100 – 10120 kHz
DK2OM	10114,8	0640	dly	07	RUS		F1B	100	1000	CIS14 – Moscow
DK2OM	10130,0	vt	vd	07			USB			French amateurs not respecting bandplans
DK2OM	10140,0	1824	13	07	MRC		USB			Moroccan fishery
DK2OM	10141,3	1828	13	07	MRC		USB			Moroccan fishery
DK2OM	10144,0	ady	dly	07	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10150;0	2008	11	07	CYP		FMCW		20k	UK OTH radar – Cyprus – 50 sps – 10140 – 10160 kHz
DK2OM	14000,0	1550	07	07	FEa		USB			Far East pirates – east of Indonesia - daily
DK2OM	14000,0	vt	vd	07	B		USB			Brazilian pirates – Rio with North Brazil
DK2OM	14001,7	1013	22	07	FEa		USB			Far East pirates
DK2OM	14001,8	1605	07	07	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	14026,0	1002	21	07	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14033,0	0838	16	07	CHN		FMOP		10k	Chinese OTH radar – 14028 – 14038 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14047,0	0831	16	07	CHN		FMOP		10k	Chinese OTH radar – 14042 – 14052 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14057,0	0904	26	07	CHN		FMOP		10k	Chinese OTH radar – 14052 – 14062 - 66.66 sps – 7.6 sec bursts – „foghorn“ - jumping
DK2OM	14089,0	0818	14	07	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - 14084 – 14094 kHz
DK2OM	14089,0	0924	15	07	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14097,0	0819	20	07	CHN		FMOP		10k	Chinese OTH radar – 14092 – 14102 kHz - 50 sps – 5 sec bursts
DK2OM	14100,0	---	--	07	F		A1A			„051“ loop – daily 1658 – 1710 utc – area of Ternant
DK2OM	14112,0	0929	22	07	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts – 14107 – 14117 kHz
DK2OM	14117,0	0907	26	07	CHN		FMOP		10k	Chinese OTH radar – 14112 – 14122 - 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	14142,0	1923	11	07	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza - jumping
DK2OM	14146,0	0829	16	07	CHN		FMOP		10k	Chinese OTH radar – 14141 – 14151 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14147,0	0848	27	07	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14147 – 14307 kHz
DK2OM	14152,0	1829	11	07	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza – 258 sec blocks
DK2OM	14153,0	0816	14	07	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - 14148 – 14158 kHz
DK2OM	14159,0	0924	11	07	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza – long lasting
DK2OM	14160,0	1912	11	07	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza - jumping
DK2OM	14160,0	1256	31	07	RUS		F1B	50	250	Moscow
DK2OM	14165,0	1008	01	07	CHN		FMOP		10k	OTH radar – 11 and 22 sps – 14165 – 14175 kHz – long lasting – area of Chengdu - daily
DK2OM	14171,0	1329	30	07	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14183,0	1851	11	07	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza - jumping
DK2OM	14186,0	0909	26	07	CHN		FMOP		10k	Chinese OTH radar – 14181 – 14191 - 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	14188,0	0809	16	07	CHN		FMOP		10k	Chinese OTH radar – 14183 – 14193 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14192,0	0900	02	07	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad – often with 50 Bd and 200 Hz shift
DK2OM	14197,0	0852	27	07	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14197 – 14357 kHz
DK2OM	14198,0	0817	20	07	CHN		FMOP		10k	Chinese OTH radar – 14193 – 14203 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14200,0 RF	0810	24	07	CHN		PSK2A	75	2000	PRC 16 tone modem – China – Shanghai
DK2OM	14208,0	0818	16	07	CHN		FMOP		10k	Chinese OTH radar – 14203 – 14213 kHz - 66.66 and 50 sps – 8.5 sec bursts – „foghorn“
DK2OM	14220,0	0814	16	07	CHN		FMOP		10k	Chinese OTH radar – 14215 – 14225 kHz - 50 sps – 5 sec bursts
DK2OM	14221,0	2120	16	07	KAZ		F1B	50	200	Kazakhstan – nw of Taraz - mostly idling - every evening
DK2OM	14225,0	0847	27	07	CHN		FMOP		10k	Chinese OTH radar – 30 sps – 14220 – 14230 kHz – every 11 minutes – 50 - 70 sec blocks – area of Zaoyang
DK2OM	14229,0	0823	20	07	CHN		FMOP		10k	Chinese OTH radar – 14224 – 14234 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14233,0	0924	11	07	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza – long lasting
DK2OM	14238,0	0821	09	07	CHN		FMOP		10k	Chinese OTH radar – 14238 – 14248 kHz - 50 sps – 5 sec bursts
DK2OM	14241,0	0835	20	07	CHN		FMOP		10k	Chinese OTH radar – 14136 – 1414146 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14251,0	0826	16	07	CHN		FMOP		10k	Chinese OTH radar – 14246 – 14256 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14253,0	0911	26	07	CHN		FMOP		10k	Chinese OTH radar – 14248 – 14258 - 50 sps – 5.0 sec bursts – „foghorn“ - jumping
DK2OM	14258,0	0908	19	07	RUS		F1B	1200 ?	500	unclean signal - area of Moscow
DK2OM	14260,0	0810	20	07	CHN		FMOP		10k	Chinese OTH radar – 14255 – 14265 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14261,5	1550	24	07	RUS		F1B	75	200	St. Peterburg
DK2OM	14265,0	vt	vd	07	CHN		FMOP		10k	Chinese OTH radar – 30 sps – 14260 – 14270 kHz – every 11 minutes – 50 - 70 sec blocks – daily – area of Zaoyang
DK2OM	14280,0	---	--	07	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne
DK2OM	14288,0	0829	24	07	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza
DK2OM	14295,2	ady	dly	07	TJK		A3E/BC		9k	14295.163 kHz -3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14303,0	1302	26	07	RUS		FMOP		12k	OTH radar Contayner – 14297 - 14309 - 40 sps – north of Penza
DK2OM	14305,0	0930	25	07	RUS		FMOP		12k	OTH radar Contayner – 14299 – 14311 - 40 sps – north of Penza
DK2OM	14308,0	0812	14	07	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - 14303 – 14313 kHz
DK2OM	14314,0	0814	20	07	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts – 14309 – 14319 kHz
DK2OM	14318,0	0824	23	07	CHN		FMOP		10k	Chinese OTH radar – 14313 – 14323 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14326,0	0812	16	07	CHN		FMOP		10k	Chinese OTH radar – 14326 – 14336 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14326,0	0750	21	07	CHN		FMOP		10k	Chinese OTH radar – 14321 – 14331 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14330,0	0934	22	07	CHN		FMOP		10k	Chinese OTH radar – 14325 – 14335 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14332,0	0827	03	07	CHN		FMOP		10k	Chinese OTH radar – 14327 – 14337 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14346,0	0931	22	07	CHN		FMOP		10k	Chinese OTH radar – 14341 – 14351 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14348,5	vt	dly	07	THA	HSOZEA	A1A			HSOZEA beacon – 14348.488 kHz - every 5 minutes – daily - just for info!
DK2OM	18080,0	0625	dly	07	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	18107,0	---	--	07	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18150,0	0738	12	07	RUS		F1B	100	1000	harmonic from 9075 kHz (100 Bd – 500 Hz) - Kaliningrad
DK2OM	21000,0	---	--	07	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21145,0	vt	dly	07	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	21402,0	0907	02	07	CHN		FMOP		10k	Chinese OTH radar – 21397 – 21407 kHz - 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	21438,0	vt	vd	07	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - often
DK2OM	21446,0	---	--	07	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	---	--	07	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – under Es conditions audible in DL
DK2OM	28000,0	---	--	07	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	vt	vd	07	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28025,1	1001	13	07	POR ?		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28065,1	0957	13	07	POR ?		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28335,0	1024	21	07	E		F3E			Spanish CBers
DK2OM	28860,0	1553	01	07	IRN		AM pulse?		40k	Iranian radar - 28837 – 28883 kHz – 150 sps – 313 sps alternating – North Iran
DK2OM	29255,0	0950	03	07	IRN		AM pulse?		55k	Iranian radar - 29222 – 29277 kHz – 307 sps and 870 sps alternating
DK2OM	29685,0	1300	13	07	I		VFT		2300	Italian MIL – Brescia - daily
DK2OM	29699,5	1300	13	07	I		VFT		1600	Italian MIL – Brescia - daily

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1812	2250	05	07	RUS		USB/LSB	Russian navy Kaliningrad. Daily with weak signals during hours of darkness.
IRTS	1889	2330	07	07	MRC or MM		USB	2 Moroccan fishermen chatting.
IRTS	1890	2040	26	07	POR or MM		USB	2 Portuguese fishermen with big signals and clear audio.
IRTS	1896.5	0130	07	07	D		PSK8	German navy with huge signal. Heard very often during hours of darkness.
IRTS	3550	0610	03	07	F		AM	Group of French HAMS violating the band plan. Daily.
IRTS	3582	0605	03	07	F		AM	Group of French HAMS violating the band plan. Often heard.
IRTS	3587	0603	03	07	HOL		USB	2 Dutch fishermen chatting

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
					or MM			
IRTS	3780	1650	27	07	E or MM		USB	2 Spanish fishermen – strong signals.
IRTS	5280	2030	26	07	E or MM		USB	Group of Spanish fishermen. Bleeding onto 5278.5 kHz- a UK/EI spot frequency.
IRTS	5350	0645	29	07	E or MM		USB	2 Spanish fishermen with huge signals. Bleeding onto the 5 MHz HAM section.
IRTS	5367.5	1935	19	07	E or MM		USB	Group of Spanish fishermen. Huge signals. UK allocation.
IRTS	5400	0745	03	07	UK		AM	KBS Seoul with Woofferton relay station. Mixing product from 9860 kHz. Daily until s/off at 0800z.EI/UK spot frequency.
IRTS	5400	0735	08	07	E or MM		USB	Spanish fishermen. Also heard on 10th at 0750z and 12th at 0640z.25 th at 0735. 30 th at 0500z.UK/EI spot frequency.
IRTS	7055	1450	04	07	RUS/ UKR		LSB	Russian-Ukrainian radio war. Heard often with good signals.
IRTS	7089	0835	11	07			Digital	Link 11 Clew, big signal. Still on at 0800z on the 13 th .
IRTS	7124	0305	17	07	MRC or MM		USB	2 Moroccan fishermen chatting. Big signals.
IRTS	7125	1010	04	07	E or MM		USB	2 Spanish fishermen. Very strong signals.
IRTS	7180	2300	16	07			Digital	Huge digital signal. Persistent. Still on 20th at 1930z.Noticed 25 th at 0600z. 26 th at 1730z.28 th at 1915z.29 th at 0530z.Still on 31st at 0430z.
IRTS	10100	0750	13	07			FMOP	Radar from 10100 to 10115 kHz.
IRTS	10144	0525	08	07	MRC or MM		USB	2 Moroccan fishermen with huge signals.
IRTS	10150	0812	16	07	MRC or MM		USB	Group of Moroccan fishermen chatting.
IRTS	14192	1400	01	07	RUS		F1B	Russian navy Kaliningrad. Very loud. All hours of daylight- every single day.
IRTS	14200	1350	04	07			FMOP	Radar from 14200 to 14253 kHz. Monster signals destroy any HAM traffic.
IRTS	14203	0800	22	07			FMOP	Strong radar from 14203 to 14228 kHz.
IRTS	14221	0530	29	07	KAZ		F1B	Kazakhstan.
IRTS	14261	1200	24	07			Digital	Huge digital signal. Persistent.
IRTS	14276	0835	24	07			FMOP	Radar from 14276 to 14295 kHz. Strong. On and off and up and down the band. Still on at 1130z. Also noticed on 25 th at 0740 and 26 th at 1115z.
IRTS	18080	0655	03	07	TWN		AM	Voice of Hope, Taipei. Heard daily with medium strength signal.
IRTS	18151.5	1115	12	07	MRC or MM		USB	Group of Moroccan fishermen. Medium strength signals.
IRTS	18157	0507	30	07			FMOP	Radar from 18157 to 18180 kHz. Huge signal.
IRTS	18160	0805	11	07			FMOP	Radar from 18160 to 18172 kHz. Strong.
IRTS	21243	1905	11	07	MRC or MM		USB	Group of Moroccan fishermen. Loud.
IRTS	28030	0745	25	07	HOL		AM	More Dutch CB operators active.
IRTS	28105	1125	26	07	RUS		FM	Russian taxi service, female voice.
IRTS	28215	0740	25	07	HOL		AM	Dutch CB operators.
IRTS	28450	0850	22	07	IRN		FMOP	Iranian radar on and off between 28450 and 28550 kHz.
IRTS	28725	1135	26	07	RUS		FM	Russian taxi service, female voice.
IRTS	28820	0830	25	07	IRN		FMOP	Iranian radar moving around from 28820 to 28890 kHz. Medium strength signal. Also noticed on the 26 th at 1030z.

KARS – Kuwait – 9K2RR (Faisal)**MRASZ – Hungary - HA7PL (Laci)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3541,0	1749	19	7			F1B	230	
MRASZ	3543,0	1833	31	7			F1B	200	
MRASZ	3557,0	1704	30	7			F1B	200	
MRASZ	3557,0	1835	31	7			F1B	250	
MRASZ	3576,0	1845	26	7			F1B	200	
MRASZ	3680,0	1751	19	7			LSB		music
MRASZ	3682,0	1833	19	7			PSK2		AT3004D
MRASZ	3727,0	1632	16	7			PSK2		AT3004D
MRASZ	3729,0	1857	31	7			PSK2		AT3004D
MRASZ	3756,0	1752	19	7			F1B	200	
MRASZ	3756,0	1700	30	7			F1B	200	
MRASZ	3756,0	1837	31	7			F1B	200	
MRASZ	3792,0	1948	11	7			F1B	200	
MRASZ	7000,0	1410	19	7			PSK2		AT3004D
MRASZ	7008,0	1457	24	7			F1B	250	
MRASZ	7016,0	1458	24	7			F1B	250	
MRASZ	7020,0	1409	19	7			F1B	250	
MRASZ	7022,0	1647	31	7			PSK2		AT3004D
MRASZ	7024,0	1621	16	7			USB		whistling, deliberate disturbance
MRASZ	7050,0	1820	29	7			LSB		chaos
MRASZ	7055,0	1807	1	7			LSB		chaos
MRASZ	7055,0	1946	11	7			LSB		music + chaos
MRASZ	7055,0	0804	20	7			LSB		russian propaganda
MRASZ	7055,0	1729	25	7			LSB		chaos
MRASZ	7055,0	1820	29	7			LSB		music + laughter
MRASZ	7057,0	1722	2	7			PSK2		AT3004D
MRASZ	7111,0	1410	19	7			F1B	250	
MRASZ	7122,0	1411	19	7			F1B	250	
MRASZ	7140,0	1806	1	7	ERI		A3E		R. Eritrea
MRASZ	7140,0	1721	2	7	ERI		A3E		R. Eritrea
MRASZ	7162,0	1833	26	7			F1B	200	
MRASZ	7179,0	1720	2	7			PSK2		AT3004D
MRASZ	7179,0	1838	26	7			PSK2		AT3004D
MRASZ	7179,0	1703	29	7			PSK2		AT3004D
MRASZ	7180,0	1806	1	7	ERI		A3E		R. Eritrea
MRASZ	7180,0	1720	2	7	ERI		A3E		R. Eritrea
MRASZ	7200,0	1122	19	7			PSK2		AT3004D
MRASZ	10106,0	1545	16	7			F1B	200	
MRASZ	10108,0	0635	26	7			F1B	200	
MRASZ	10118,0	0808	20	7			F1B	250	
MRASZ	10149,0	1944	11	7			OTHR		10128-10170 kHz
MRASZ	14008,0	1124	19	7			F1B	250	
MRASZ	14008,0	0742	27	7			F1B	250	
MRASZ	14108,0	0810	20	7	RUS		A1A		"O1WO de LA4Q QBE QYT 9 K"
MRASZ	14108,0	0640	26	7			A1A		"9ELQ de M3KB QSY" , other similar stn also hr
MRASZ	14192,0	1723	2	7	RUS		F1B	200	Rus. Navy, Kaliningrad
MRASZ	14192,0	1938	11	7	RUS		F1B	200	Rus. Navy, Kaliningrad
MRASZ	14192,0	1740	23	7	RUS		F1B	200	Rus. Navy, Kaliningrad
MRASZ	14192,0	1451	24	7	RUS		F1B	200	Rus. Navy, Kaliningrad
MRASZ	14192,0	1835	26	7	RUS		F1B	200	Rus. Navy, Kaliningrad
MRASZ	14261,5	1439	24	7			F1B	200	
MRASZ	14261,5	1631	25	7			F1B	200	
MRASZ	14261,5	0645	26	7			F1B	200	

OEVSU – Austria – OE3GSA (Gerd)

PZK – Poland

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
PZK										July 2019
SP3AMO	1854	1245	23	07	CZ	Beacon	A1A			OK0EU - RST 559
SP3AMO	3520,8	1130	28	07			USB			
SP5GNI	3527	2020	26	07			FSK		200	2 peaks and one smaller in-between
SP3AMO	3530,6	1350	24	07						Big noise
SP3AMO	3535,5	2110	26	07			FSK?		183	Multi-tone transmission (5)
SP3AMO	3560	1350	24	07	TUR		PSK8A	2400	2400	Stanag-4285
SP5GNI	3580	1955	26	07	TUR		PSK8A	2400	2400	2,4 kHz BW – Stanag-4285
SP5GNI	3580	1950	30	07			PSK8A			2,8 kHz BW
SP3AMO	3727	11	28	07			USB			
SP5GNI	3738,3	ady	24	07	RUS		PSK2A	120	2600	AT3004D, intensity changes from time to time. Next day not observed .
SP3AMO	3755	vt	vd	07	?		F1B	50	200	The contents not identified by MixWin
SP3AMO	3756,0	1000	27	07	RUS		F1B	50	200	FSK = F1B - Kaliningrad
SP5GNI	3756	ady	24	07	RUS		USB		210	RUS MIL – channel marker – Tuapse – East Black Sea - legal
SP5GNI	7012,3	1000	24	07	RUS		PSK2A	120	2600	AT3004D – CIS12 –Russian MIL
SP5GNI	7040	0545	29	07			PSK			Multi-tone transmission (6) 580 Hz BW ?
SP5GNI	7045	0546	29	07			PSK			Multi-tone, 220 Hz BW ?
SP5GNI	7055	1005	24	07	RUS		LSB			Female voice in Russian occasionally „dva tri“ Means „two three“
SP5GNI	7055	1445	24	07	UKR		LSB			Signal modulated to obtain graph on the waterfall (anti-Russian). Later a short conversation heard in Russian or Ukrainian
SP3AMO	7055	vt	vd	07			LSB			Ukrainian/Russian propaganda
SP5GNI	7169	0835	25	07			FSK		250	
SP5GNI	7171	0728	29	07	RUS		PSK2A	120	2600	AT3004D, looking for overdrived
SP5GNI	10132,5	1140	23	07			FMOP			The signal disappeared 1150. About 10 kHz wide
SP3AMO	10144	1245	23	07	D	Beacon	A1A			A1A = CW
SP5GNI	10144	2011	30	07			A1A			DK0WCY - legal
SP5GNI	10147	2000	30	07			PSK			Continous multi-tone transmission, from time to time FSK bursts 2-3 second long: on 10148,8 or 10149,3
SP3AMO	14106,8	vt	vd	07			FSK			The contents not identified by MixWin
SP5GNI	14160	0900	31	07	RUS		FSK	50	250	1150 still present - Moscow
SP3AMO	14260,5	vt	vd	07	RUS		F1B	75	200	The contents not identified by MixWin – MIL St. Petersburg
SP5GNI	14261,5	1509	24	07			F1B		100	Continuous signal – belongs to F1B
SP5GNI	14305	1253	25	07	RUS		FMOP			About 15 kHz wide signal, level 6 to 8. Long time, but an hour later the signal was not observed. OTH radar Contayner?
SP3AMO	21190,1	1115	28	07			PSK			Multi-tone transmission (5) ?
SP5GNI	28150	1600	24	07	I		A3E			Italian male voice, then shortly kind of digital transmission (24-07-2019-014.jpg) – CB traffic

REF – France – F5MIU (Francis)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Sh/Bw	DETAILS
REF	14090	0805	15	07			fmcw	20kHz	OTH Radar pulsed 25ms, S9
REF	14260	0836	24	07			fmcw	20kHz	OTH Radar pulsed 25ms, S8
REF	14305	0738	25	07			fmcw	20kHz	OTH Radar pulsed 25ms, S8
REF	18095	0756	16	07			fmcw	20kHz	OTH Radar pulsed 20ms, S5

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	07.20	10	07	E		J3E-U			Fishery
REP	3525	07.05	10	07	POR		J3E-U			Fishery
REP	3525	06.19	17	07	F		PSK4			LINK-11 CLEW DSB, Marseille FYI
REP	3540	07.29	11	07	G		PSK8			NATO Stanag 4285, FYI shared band
REP	3550	07.34	11	07	F		A3E			French amateurs ignoring 80m

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
										Band Plan
REP	3592	06.21	17	07	G		PSK8A			STANAG 4285 NATO modem, Fallmouth. FYI
REP	3600	22.20	21	07			QPSK			Stanag 4285 encrypted
REP	5362	07:55	01	07	DNK	OUA14	PSK8A	2.4k	2.4k	STANAG 4285
REP	7000	07.00	27	07			J3E-U			Unid language, fishery
REP	7010	18.55	08	07	RUS		F1B	75	250	CIS50
REP	7025	23.22	05	07	B		J3E-U			Fishery
REP	7025	Dly	Dly	07		2010	MFSK8			MilStd 188-141
REP	7039	21.44	12	07	RUS	M	A1A			MAGADAN Beacon
REP	7110	07.30	17	07	RUS		FSK	300	500	FSK encrypted
REP	7130	07.03	17	07	RUS		FSK	75	500	CIS75 encrypted
REP	7140	16.23	23	07	ETH		8k00 A3EGN			BC Eritrea, daily
REP	7179	17.59	07	07	RUS		MFSK	120	3k	AT3004D, Russian Navy
REP	7180	dly	dly	07	ERI		9k00 A3EGN			Radio Eritrea
REP	10110	23.08	05	07	E		J3E-U			Fishery
REP	10130	10.22	17	07	MRC		J3E U			Moroccan fishery, daily
REP	10130	10.23	17	07			MFKS8			Unid MFSK mode
REP	14140	17.00	04	07	CHN		FMOP	10	100k	OTH
REP	14150	15.45	02	07	E		J3E-L			Fishery
REP	14192	07.30	03	07	RUS		F1B	50	200	CIS50 Russian Navy Kaliningrad, daily
REP	14225	08.00	04	07	CHN		FMOP		10k	OTH 30sps
REP	14270	09.59	24	07	RUS		F1B	75	200	T206 modem, Russian mil
REP	18070	10.07	27	07	CYP		FMCW	50	20k	OTH radar, Cyprus
REP	18080	07.03	19	07	TWN		9k00 A3EGN			Radio Sounds of Hope (with jamming)
REP	18100	16.10	04	07			FMCW	50	20k	OTH
REP	21185	14.00	28	07	MRC		J3E-U			Fishery
REP	28725	10.28	11	07	RUS		F3E			Taxis dispatchers

RSGB – United Kingdom – G4DYA (Richard)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	6999.0	1655	08	07			J7D		2K70E	USB 6997.0 / CIS-12 obw to 7.0003
RSGB	7008.0	2136 0656	09 10	07			F1B		250	
RSGB	7010.0	1654	08	07			J7D		2K70E	USB 7008.0 / CIS-12. Ceased 1659
RSGB	7016.0	2138	09	07			F1B		250	
RSGB	7020.0	2139	09	07			F1B		200	
RSGB	7038.5	ady	dly	07	CZE	OK0EU	A1A			For info: QRP propagation beacon
RSGB	7058.0	1555	17	07			F1B		250	
RSGB	7088.0	0919 1034	12 13	07			F1B		200	
RSGB	7120.0	2232	29	07			J7D		2K70E	USB 7118.0 / CIS-12
RSGB	7140.02	vt	vd	07	ERI	VoBM1	A3E			BC
RSGB	7046.0	0718	18	07			F1B		200	
RSGB	7164.0	2142	09	07			J7D		2K70E	USB 7162.0 / CIS-60
RSGB	7174.5	1702 0748	08 09	07			F1B		200	
RSGB	7179.0	2227 1851 2014 2137 1849	02 05 06 17 19	07			J7D		2K70E	USB 7177.0 / CIS-12
RSGB	7180.02	vt	vd	07	ERI	VoBM2	A3E			BC
RSGB	7200.0	0714	18	07			J7D		2K70E	USB 7198.0 / CIS-12

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	10100.8	ady	dly	07	D	DDK9	F1B	50	450	For info: Primary user: WX broadcast
RSGB	10110.0	0746	13	07			P0N		20K0E	OTHR radar 50 sps
RSGB	14008.0	1231	11	07			F1B		250	
RSGB	14160.0	1144	31	07			F1B		250	
RSGB	14192.0	vt	01-03, 05, 08-11, 13-14, 17-18, 22-24, 30-31	07			F1B		200	
RSGB	14261.5	1146	31	07			F1B		200	
RSGB	14303.0	1348	24	07			P0N		14K0E	Container OTH radar

RSK – Kenya – 5Z4BV (Kamweti)

Soc	kHz	UTC	dd	mm	ITU	Identity	MODE.	Shift	Details
RSK	7025	0523	12	7	E. Africa?	?	J3E-u		Kiswahili/vernacular QSO
RSK	7035	1250	9	7	E./	?	J3E-u		Vernacular msg net Central Africa?
RSK	7089,1	v.t.	nr.dly	7	Central Africa?	?	J3E-u		French/vernacular msg net
RSK	7140	v.t.	dly	7	Eritrea	VOB	A3E		Commercial broadcast Voice of the Broad Masses of Eritrea 1
RSK	7150	v.t.	nr.dly	7	Kenya	"1128"	MFSK	1750	2G ALE
RSK	7180	v.t.	dly	7	Eritrea	VOB	A3E		Commercial broadcast Voice of the Broad Masses of Eritrea 2
RSK	7195	v.t.	nr.dly	7	Kenya	?	PSK	2750	STANAG 4285/4G ALE msg net
RSK	14338	v.t.	22	7	Asia	?	FMOP		OTHR Russian 'kontayner' 40sps

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000.0	1245- 1540/	*	7	RUS	UiMUX	PSK2	120	2600	Days: 2. 18. 31.
SRAL	7002.0	1145- 1225/	26	7		UiMUX	PSK2	120	2600	
SRAL	7008.0	0720- 1500	*	7	RUS	UiPTR	F1B		250	Days: 10. 18. 19.
SRAL	7008.5	0730- 0740	3	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7009.0	0630- 0700	1 2	7		UiMUX	PSK2	120	2600	
SRAL	7010.0	1435- 1700	1 8	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7013.0	1045	24	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7014.0	1435- 1450/	4	7		UiPTR	F1B		500	
SRAL	7015.0	'0700	17	7		UiPTR	F1B		200	
SRAL	7017.2	0730- 0800	*	7	RUS	UiPTR	F1B		500	Unstable fq 7016.7 – 7018.3 kHz days: 3. 24. 30.
SRAL	7018.0	0755- 1245	5 22	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7020.0	0735- 1825/	*	7	RUS	UiPTR	F1B		250	Days: 8. 13. 18. 22.
SRAL	7022.0	0520- 1855/	19 24	7	RUS	UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7025.0	0530-1630	*	7	RUS	RDL	F1B/A		200	Days: 1. 3. 5. 7. 8. 9. 23. 25. 27. 30. 31., 5BL
SRAL	7033.9	'0515	8	7		UiPTR	F1B		500	
SRAL	7034.0	0715-1810/	19 27	7	RUS	UiPTR	F1B		250	
SRAL	7036.0	1745-1800	6 9	7		UiMUX	PSK2	120	2600	Carr. 7034.0 kHz, also MR on 7035.6 kHz
SRAL	7048.5	1245-1430	21	7		UiPTR	F1A			
SRAL	7049.0	0850-0950/	29	7	RUS	UiPTR	F1A			
SRAL	7057.0	'0500	24	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7058.0	1030-1053/	1	7		UiPTR	F1A		250	
SRAL	7060.0	1515-1540	9	7		UiMUX	PSK2	120	2600	
SRAL	7068.0	1345-1400/	22	7		UiMUX	PSK2	120	2600	
SRAL	7072.0	'0655	17	7		UiMUX	PSK2	120	2600	
SRAL	7078.0	1745-1830	9	7		UiMUX	PSK2	120	2600	
SRAL	7088.0	h24	*	7	RUS	UiPTR	F1B		200	Days: 10. - 14.
SRAL	7090.0	0515-0530	8	7		UiMUX	PSK2	120	2600	
SRAL	7100.0	1405-1430	5	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7111.0	h24	*	7	RUS	UiPTR	F1B		250	Days: 18. 21. 22. 28.
SRAL	7112.0	0945-1015	3 23	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7117.0	0445-1020/	3 10	7		UiPTR	F1B/ NON		250	
SRAL	7118.0	0910-1830	9	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7119.0	1620-1750/	15	7		UiMUX	PSK2	120	2600	
SRAL	7120.0	1400-1830	9	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7124.0	0745-0756/	16	7		UiMUX	PSK2	120	2600	
SRAL	7136.0	1425-1431/	23	7		UiMUX	PSK2	120	2600	
SRAL	7138.0	2200-0530	16 17	7	RUS	UiPTR	F1B		200	
SRAL	7140,0	0300-0600	*	7	ERI	VoBME	A3E			Days: 1. - 17.
SRAL	7140,0	1445-1935/	*	7	ERI	VoBME	A3E			Days: 1. - 17.
SRAL	7140.0	0840-1400	8 16	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7160.0	0650-0710	17	7	RUS	RDL88	A1A			
SRAL	7162.0	0505-1925	26 27	7		UiPTR	F1B		200	
SRAL	7169.0	0930-1450	*	7	RUS	UiPTR	F1B		200	Days: 19. 23. 26.
SRAL	7169.0	1720-1815	26	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7172.0	1000-1122/	3	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7179.0	0500-1900	*	7	RUS	UiMUX	PSK2	120	2600	Days: 2. 3. 5. 6. 21. 24. 25. 30. 31.
SRAL	7180.0	0300-0600	*	7	ERI	VoBME	A3E			Days: 1. - 16.
SRAL	7180.0	1445-1935/		7	ERI	VoBME	A3E			Days: 1. - 16.
SRAL	7198.0	1115-	25	7	RUS	UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1135								
SRAL	7200.0	0500-1900	18 19	7	RUS	UiMUX	PSK2	120	2600	
SRAL	7 MHz	'0755	11	7	RUS	Kontainer	FMCW			50Hz/9kHz (WebSDR 2d)
SRAL	7 MHz	1755	1	7	CHN	UiOTHR	FMCW			10kHz
SRAL	10 MHz	1830-1215	12 13	7	CYP	UiOTHR	FMCW			25/50Hz, 20kHz, (WebSDR 2d)
SRAL	10 MHz			7	RUS	Kontainer	FMCW			40Hz/ 15kHz (WebSDR 2d)
SRAL	14 MHz	0515-1400	1 11	7	CHN	UiOTHR	FMCW			10Hz/ 40kHz
SRAL	14 MHz	0445-1400	*	7	RUS	Kontainer	FMCW			40Hz/ 15kHz, days: 4. 11. 12. 15. 16. 22. 24. 25. 26.
SRAL	14008.0	0925-1522/	*	7	RUS	UiPTR	F1B		250	Days: 3. 8. 14. 15. 21. 22. 24. 28.
SRAL	14026.0	'0940	21	7		UiMUX	PSK2	120	2600	
SRAL	14030.0	0505-0835	10	7		UiMUX	PSK2	120	2600	
SRAL	14047.0	1135-1250	6	7		UiMUX	PSK2	120	2600	
SRAL	14051.0	1110-1250	6	7		UiMUX	PSK2	120	2600	
SRAL	14108.0	0610-1235	*	7	RUS	B31V etc	A1A			Days: 9. 12. 15. 21. 22. 24. 25. 28. 5BL
SRAL	14118.0	0500-1215	*	7	RUS	UicW	A1A			Days: 6. 9. 22. 24. 25. 5BL
SRAL	14160.0	0500-1335	*	7	RUS	UiPTR	F1B		200	
SRAL	14160.0	0810-1200	31	7	RUS	UiPTR	F1B		250	
SRAL	14162.0	1045	11	7		UiMUX	PSK2	120	2600	
SRAL	14192.0	0445-1800	dly	7	RUS	UiPTR	F1B		200	
SRAL	14221.0	0400-0600/	dly	7	KGZ	UiPTR	F1B		200	
SRAL	14240.0	'0740	6	7		UiPTR	F1B			
SRAL	14261.5	1215-1725	24 25	7	RUS	UiPTR	F1B		200	
SRAL	14292.0	'0805	30	7	RUS	UicW	A1A			5BL
SRAL	14295.2	0400-1830	dly	7	TJK	R Tojikiston	A3E			3f
SRAL	14302.0	1040	11	7	RUS	UiMUX	PSK2	120	2600	
SRAL	14315.0	'0955	4	7		WWPV	A1A			5BL
SRAL	14317.0	'0805	30	7		QIE7	A1A			5BL
SRAL	18 MHz	1830-1215	12 13	7	CYP	UiOTHR	FMCW			25/50Hz/20kHz, (WebSDR 9d)
SRAL	18 MHz			7	RUS	Kontainer	FMCW			40Hz/15kHz (WebSDR 2d)
SRAL	18080.0	0700-0800	*	7	TWN	Sound of Hope	A3E			CHN jam by BC, days: 2. 6. 13. 14. 20. 24. 28.
SRAL	18150.0	'0735	3	7	RUS	UiPTR	F1B		500	
SRAL	21 MHz	0930-1300	21 26	7	CYP	UiOTHR	FMCW			25/50Hz/20kHz, (WebSDR 2d)
SRAL	21122.0	1020	25	7		WEGI	A1A			XXX msg
SRAL	21438.0	/0830-1630	dly	7	RUS	RCV	A1A			
SRAL	24 MHz			7		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28 MHz			7	IRN	UiOTHR	FMCW			307 & 870Hz / 60 kHz.
SRAL	28860.0	0445-1800	*	7	IRN	UiOTHR	FMCW			150 & 313Hz / 60 kHz. Days: 1. 3. 4. 5. 6. 8. 10. 11. 12. 15. 16.19. 20. 21. 22. 25. 26. 27. 29.
SRAL	28 MHz			7	CYP	UiOTHR	FMCW			50Hz/ 20kHz
SRAL	28 MHz	0450-1600	*	7	RUS	Taxi disp.	F3E			128 reports, days: 4. 6. 8. 9. 10. 12. 20. 21. 25. 26. 27. 28. 29.

URE – Spain – EA6AMM (Gaspar)

not available

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7008.0	1314	02	07			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
USKA	7018.0	1356	04	07			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
USKA	7022.0	1621	31	07			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D often
USKA	7058.0	1631	31	07			F1B	75	250	CIS
USKA	7088.0 VFO USB	1558	18	07			G1D PSK8	2400	2k7	LINK 11 SLEW (NATO) often
USKA	7090.0	0718	08	07			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
USKA	7098.0	2039	18	18			FMOP	10 sps	160k	OTHR
USKA	7111.0	1428	18	07			F1B	75	250	often
USKA	7114.0	2112	11	07			FMOP	40 sps	appx 12k	OTHR
USKA	7119.0	2024	30	07			FMxx	41 sps	appx 10k	OTHR, long bursts
USKA	7120.0	1701	09	07			J7D	12x120	2k7	PSK-2; CIS12; aka AT3004D often
USKA	7122.0	1431	18	07			F1B	75	250	
USKA	7140.0	1539	11	07	ERI	VOBM	A3E		~ 9k	BC
USKA	7169.0	1359	04	07			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
USKA	7171.0	0912	22	07			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
USKA	7174.0	2035	30	07			FMxx	41 sps	appx 10k	OTHR, long bursts
USKA	7174.5	1107	09	07			F1B	75	200	
USKA	7179.0	2028	30	07			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D often
USKA	7180.0	1537	11	07	ERI	VOBM	A3E		~ 9k	BC almost daily
USKA	7200.0	1207	18	07			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D partially in 40m band.
USKA	14008.0	0904	11	07			F1B	50	250	often
USKA	14086.0	1046	04	07			FMOP	40 sps	appx 12k	
USKA	14089.0	1313	11	07			FMOP	40 sps	appx 12k	stopped 1318z
USKA	14140.0	1228	23	07			FMOP	10 sps	appx 10k	OTHR;
USKA	14161.0	1055	04	07			FMOP	40 sps	appx 12k	OTHR;
USKA	14181.0	1054	04	07			FMOP	40 sps	appx 12k	OTHR
USKA	14192.0	2204	02	07			F1B	50	200	daily
USKA	14200.0	1057	04	07			FMOP	40 sps	appx 12k	OTHR
USKA	14217.0	1052	04	07			FMOP	40 sps	appx 12k	OTHR (long lasting)
USKA	14221.0	2144	24	07			F1B	50	200	often
USKA	14240.0	1321	11	07			FMOP	10 sps	160k	OTHR
USKA	14255.0	1309	11	07			FMOP	10 sps	160k	OTHR
USKA	14261.5	1632	23	07			F1B	75	200	CIS often
USKA	14302.0	0908	11	07			OFDM6 0	30	~ 2.75k	pilottone
USKA	14304.0	1124	24	07			FMOP	40 sps	appx 12k	OTHR; (long lasting)
USKA	14317.0	0857	01	07			FMOP	10 sps	40k	OTHR
USKA	21438.0	0832	12	07	RUS	RCV	A1A			letters + figures almost daily
USKA	28860.0	1027	22	07			XXX	150 + 313 sps	appx 45k	OTHR, Bursts, various sweep- rates and durations daily

Veron – Netherlands – PG1R (Ruud)

SOC	kHz	UTC	DD	MM	ITU	IDENT	EM	SHIFT	DETAILS
VERON	3756,0	1713	18	07		UiPTR	F1B		Revs
VERON	3756,0	1946	13	07		UiPtr	F1B	200	Printer; idling; S6
VERON	3792,0	1938	13	07		UiPtr	F1B	200	Printer; S5
VERON	6999,0	1905	05	07	F?	UiLL	J3E-u		Phonetical spelling; strong French accent; splatter in 40m band
VERON	7020,0	1539	19	07	RUS		PSK2		AT3004D
VERON	7088,0	1934	13	07		UiPtr	F1B	200	Printer; S9+
VERON	7088,0	0713	14	07		UiPtr	F1B	200	Printer; S5
VERON	7180,0	1812	11	07	RUS	UicW	NON		carrier
VERON	10108,0	1143	22	07	CIS	M7A2	A1A		XXX M7A2 31000 01992 SLUHOBK 6095 011k K
VERON	10108,0	0821	05	07	CIS	UiPTR	F1B		Carrier/Revs/Ptr also 9/7 08.54 16/7 09.40 UTC
VERON	10118,0	0943	19	07		UiPTR	F1B		Ptr
VERON	14008,0	0908	04	07	CIS	UiPTR	F1B		Carrier/Revs/Ptr also 9/7 08.54 16/7 09.40 UTC
VERON	14008,0	1120	04	07	RUS	UiPtr	F1B		Printer
VERON	14008,0	1146	04	07	RUS	UicAR	NON		carrier
VERON	14016,0	0853	29	07		UiPTR	F1B		Ptr
VERON	14108,0	0905	10	07	CIS	HKYV	A1A		HKYV 140 6. 10 1120 140 = ZMH 586 = MMMMM 5BL
VERON	14108,0	1040	10	07	CIS	UicW	A1A		5F
VERON	14108,0	0715	11	07	RUS	SPJI	A1A		DBI9 DE SPJI K
VERON	14108,0	0718	11	07	RUS	SPJI	A1A		DGLT DE SPJI K
VERON	14108,0	0726	11	07	RUS	SPJI	A1A		KOTP DE SPJI K
VERON	14108,0	0739	11	07	RUS	SPJI	A1A		LONJ DE SPJI K
VERON	14108,0	0742	11	07	RUS	SPJI	A1A		TSOL DE SPJI K
VERON	14108,0	0745	11	07	RUS	SPJI	A1A		WFT4 DE SPJI K
VERON	14108,0	0747	11	07	RUS	SPJI	A1A		QTC ZCW 083 40 11 0850 983 BT ZEW BT MMMMM (etc 5BL) 879 K
VERON	14108,0	0914	19	07	CIS	WRLO	A1A		WRLO QBE QYT6 K
VERON	14108,0	0926	19	07	CIS	NCSK	A1A		NCSK QYT9 K
VERON	14108,0	0928	19	07	CIS	NCSK	A1A		O1WO de NCSK ZIQ ZPW ZYR QYT6 K
VERON	14108,0	1000	19	07	CIS	WRLO	A1A		WRLO ZZD ZKJ ZRI QYT6 K
VERON	14108,0	1215	19	07	CIS	LA4Q	A1A		LA4Q ZNE ZOJ ZRK QYT9 K
VERON	14108,0	0919	22	07	CIS	7C8I	A1A		7C8I calls to K3IW OUPV KN5S 9E6G HIMT 2ZB9 K
VERON	14108,0	1131	22	07	CIS	WEGI	A1A		XXX WEGI 30230 ATAEC 7171 8195 K
VERON	14108,0	1201	22	07	CIS	7C8I	A1A		2ZB9 de &C8I QTC 800 37 22 1448 800 = MMMMM 5BL K
VERON	14108,0	0954	30	07	CIS	WOJV	A1A		WOJV calls to ILYF APWI C7LN QGX1 PLOT IXLM K
VERON	14108,0	1002	30	07	CIS	WOJV	A1A		PLOT de WOJV QTC 811 36 30 1248 811 = 736 = MMMMM 5BL
VERON	14108,0	1003	02	07	CIS	JM8T	A1A		5BL ending 910 K
VERON	14108,0	0819	05	07	CIS	T3DC	A1A		T3DC QRJ? QYT6 K
VERON	14108,0	0822	05	07	CIS	T3DC	A1A		T3DC QMV1 QYT6 K
VERON	14108,0	0836	08	07	RUS	WEGI	A1A		XXX WEGI 90409 PAU KOCHUM 2713 1415
VERON	14108,0	0847	08	07	RUS	WLV8	A1A		8KHH DE WLV8 proc
VERON	14108,0	0849	08	07	RUS	WLV8	A1A		YMZH DE WLV8 proc
VERON	14108,0	0851	08	07	RUS	WLV8	A1A		7RLZ DE WLV8 proc
VERON	14108,0	0852	08	07	RUS	WLV8	A1A		AHAO DE WLV8 proc
VERON	14108,0	0854	08	07	RUS	WLV8	A1A		FBDR DE WLV8 proc
VERON	14108,0	0856	08	07	RUS	WLV8	A1A		XZ1V DE WLV8 proc
VERON	14108,0	0952	08	07	RUS	WLV8	A1A		A99F DE WLV8 QTC 011 47 8 1048 011 BT 184 BT MMMMM (etc 5BL) BT 619 AR
VERON	14108,0	1033	08	07	RUS	WEGI	A1A		XXX WEGI 67452 BXEF

SOC	kHz	UTC	DD	MM	ITU	IDENT	EM	SHIFT	DETAILS
									OKAIN 1439 4355
VERON	14116,0	1011	03	07	RUS	UiPtr	F1B	200	Printer
VERON	14118,0	0809	11	07	?	GIXZ	A1A		NCLH DE GIXZ K (calls)
VERON	14118,0	0843	11	07	?	M9N2	A1A		MEO5 DE M9N2 K (calls)
VERON	14118,0	0957	19	07	CIS	AZ7M	A1A		AZ7M 506 34 19 1254 506 = 598 = 5BL
VERON	14118,0	0800	23	07	?	5QWF	A1A		IXI8 DE 5QWF QTC 470 34 23 0905 470 BT ZWI 991 BT (5BL). Ends 493 RPT AL QLN K
VERON	14118,0	1000	02	07	CIS	UiCW	A1A		5BL
VERON	14160,0	1023	31	07	RUS	UiPtr	F1B		Ptr long period
VERON	14165,0	1026	11	07	RUS		PSK2		AT3004D
VERON	14192,0	0916	01	07	CIS	UiPTR	F1B		Revs/Ptr also 8/7 09.00 UTC
VERON	14258,0	0903	11	07		UiPTR	F1B		Ptr
VERON	14261,0	0700	31	07	RUS	UiPtr	F1B		Ptr long period
VERON	14317,0	0925	01	07	CIS	UiCW	A1A		5BL ending 017 RPT AL QLN K
VERON	14317,0	0931	01	07	CIS	WWPV	A1A		4CZ7 de WWPV QBE ZLB ZCW K
VERON	14317,0	0939	04	07	CIS	WWPV	A1A		WWPV QTC 016 34 4 1238 016 = ZIS 430 5BL
VERON	14317,0	0945	04	07	CIS	WWPV	A1A		C8NJ de WWPV 247 34 4 1242 247 = ZFH 439 = 5BL
VERON	14317,0	0956	04	07	CIS	WWPV	A1A		9G8J de WWPV QTC 460 34 4 1249 460 = ZPY 439 = 5BL
VERON	21438,0	1005	11	07	RUS	RCV	A1A		RBE86 DE RCV QTC 539 (etc) NAWIP

The monitoring team of IARU Region 1

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All our friends and contributors worldwide!

Many thanks for your interest!

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