



# Monitoring System

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The monthly newsletter for Region 1

May 2019

## The 26 members of the IARUMS Region 1 Monitoring Team:



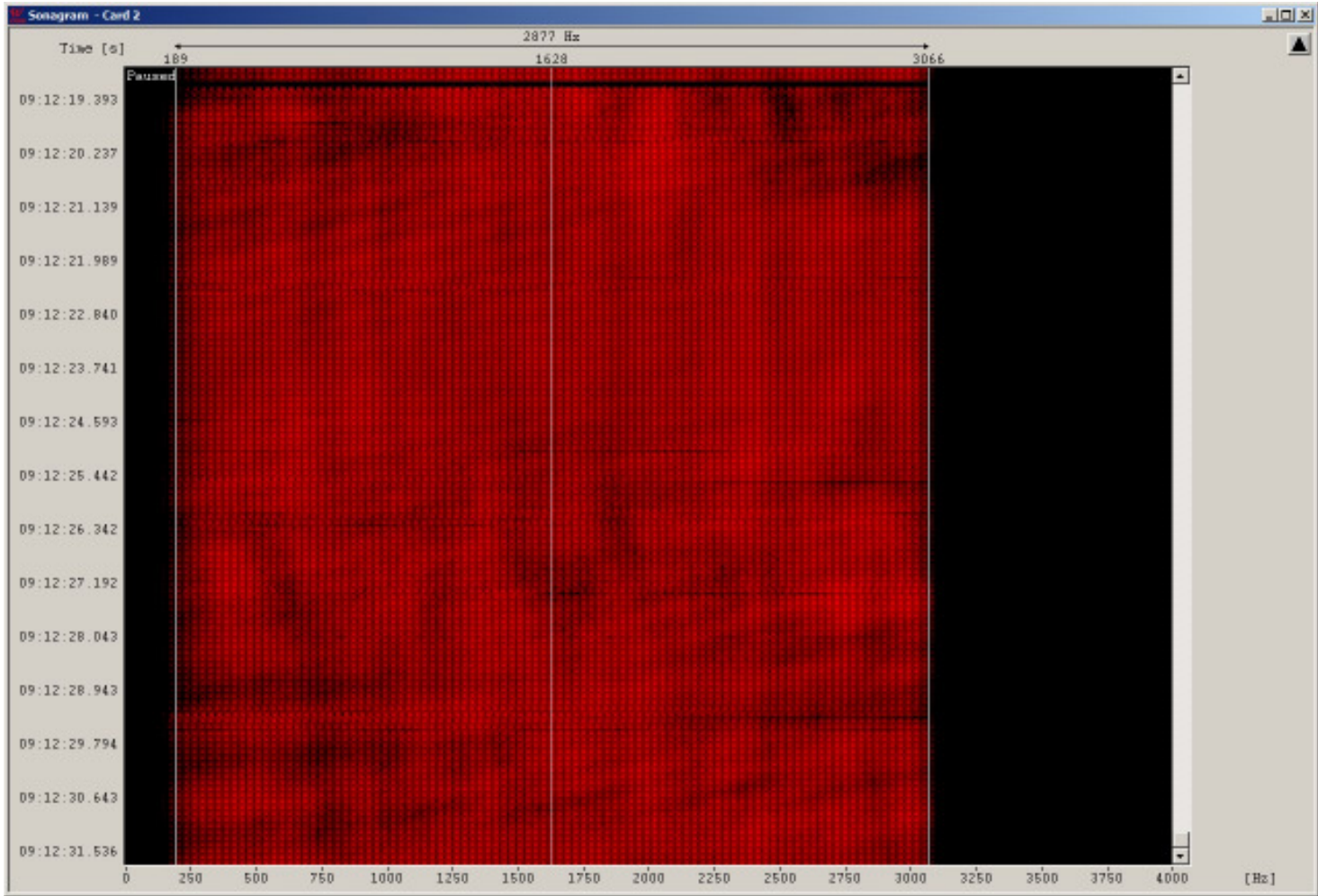
### Acknowledgements

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 ++ OEVSV: OE3GSA – Gerd ++ PZK: N.N. ++ 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: ON8IM – Ivan +++ 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 ++ German BNetzA Konstanz

# Part 1: News and Infos

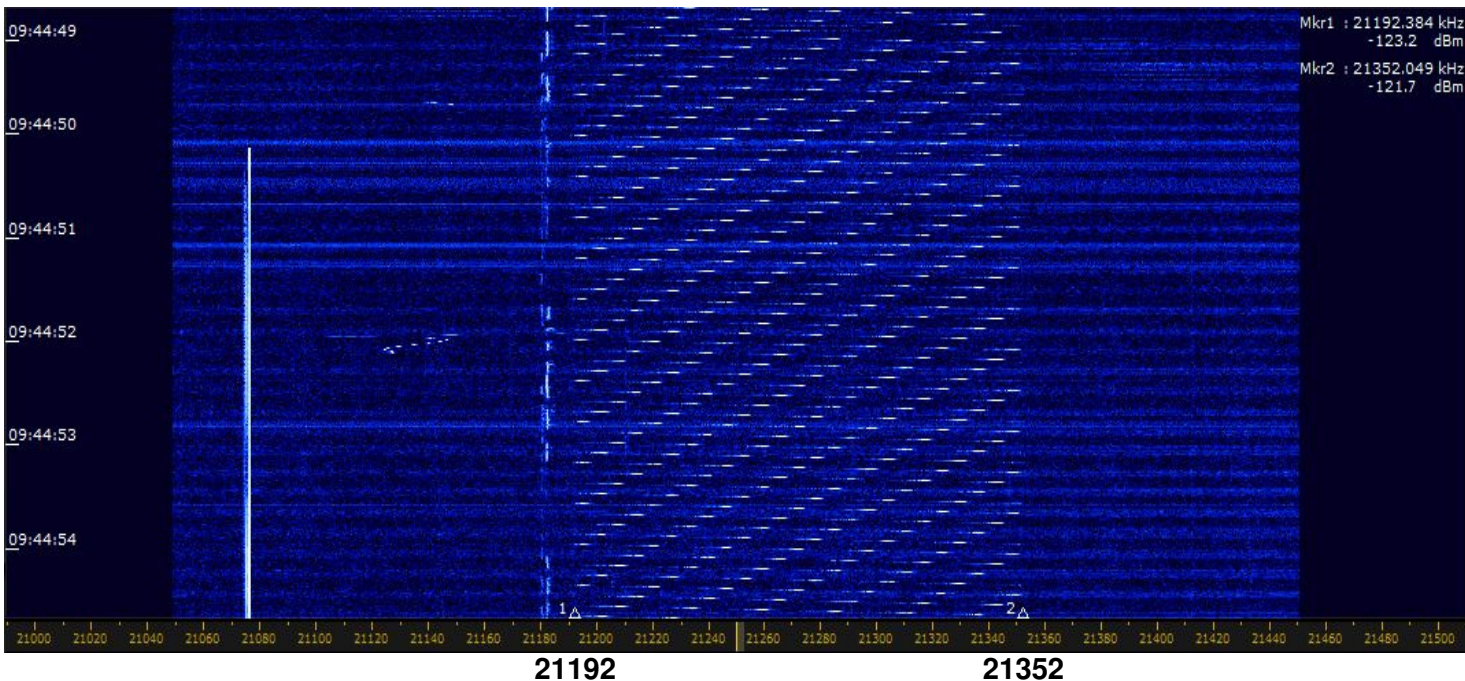
## 1. New kind of OTH radar on 14140 – 14150 kHz

Parameters: FMOP – 30 sps – 40 sec blocks every 10 minutes - location: Far East  
**screenshot:** DK2OM with W-Code Sonogram on 15 May – 0913 utc

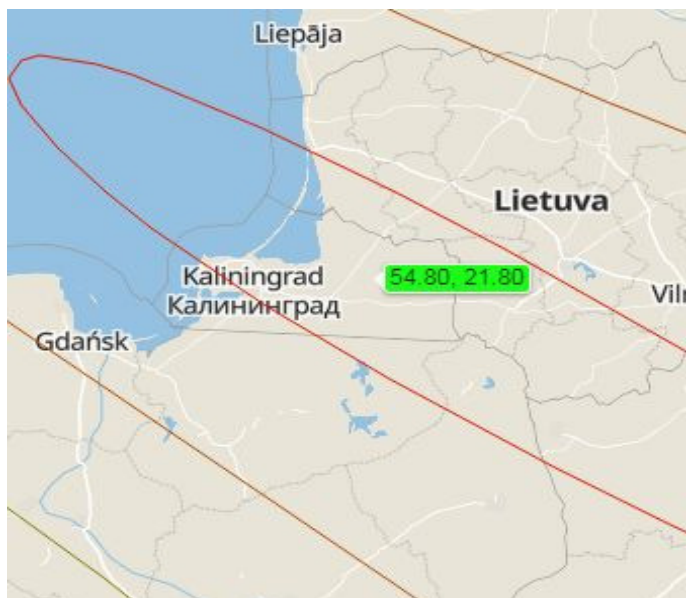


## 2. Chinese wideband OTH radar on 21 MHz

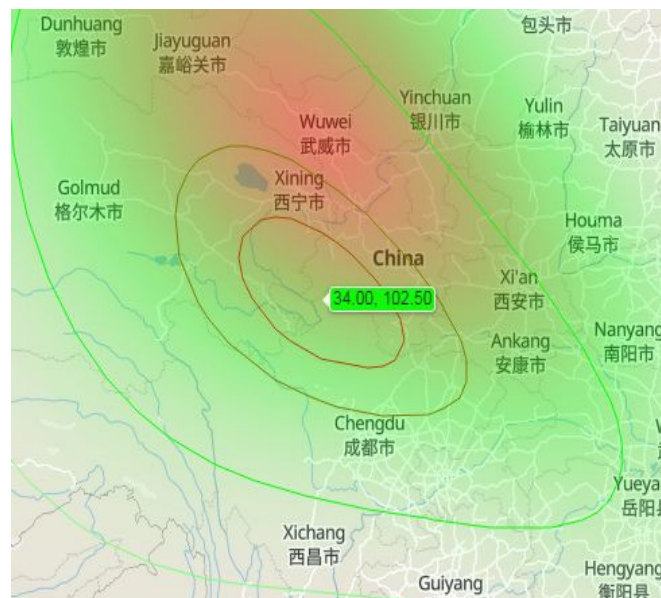
We found a chinese wideband OTH radar on 21192 - 21352 kHz on FMOP with 10 sps and 160 kHz wide  
**Perseus screenshot:** Chinese wideband OTH radar with 10 sps on 15 May at 0944 utc



### 3. TDoA bearings



Russian F1B on 7138.0 kHz – Kaliningrad – 04



Chinese OTH radar – 14170 kHz – 11 sps - 14 May

#### 4. Iran radar again on 28860 kHz (center QRG)

The Iran radar was audible in Europe under Sporadic-E conditions. Date: 24 May and the following days, always long lasting – Parameters: possibly a kind of AM-modulation (unconfirmed), 150 and 313 sps alternating – about 46 kHz wide - location: North Iran

#### 5. Russian OTH radar Contayner on 14127 kHz

We observed the Russian OTH radar Contayner on 14127 kHz center QRG. Parameters: FMOP, 40 sps, 12 kHz wide location: north of Penza – date: 23 May – more observations: USKA table!

#### 6. CIS taxis on 28 MHz

CIS taxi services were audible again under Sporadic-E conditions. They were transmitting on FM (F3E) as usual. Women were operating the base stations talking to their husbands (mostly taxi drivers).

#### 7. 14000.0 kHz - USB – Far East pirates

Far East pirates were daily abusing 14000.0 kHz on USB at about 1300 utc and later. Location: Possibly Java-Sea.

#### 8. 28000 – 28500 – fishery buoys

We logged several fishnet (driftnet) buoys between 28000 and 28500 kHz. Parameters: Carrier followed by a CW ident. Enagal GPS buoys (F1B - 51 Bd and 300 Hz shift) were observed, too. Location possibly Bay of Biscay.

#### 9. 18080.0 kHz – Sound of Hope - Taiwan

The Taiwanese BC “SOH” = “Sound of Hope” was still abusing 18080 kHz on AM accompanied by the Chinese jammer. Earlier official complaints did not solve the problems.

#### 10. SP9BRP – Jan - no longer Polish national IARUMS R1 coordinator

SP9BRP, Jan, is no longer a member of our Monitoring System Region 1. Many thanks for your membership and your patience, dear Jan! Perhaps another Polish HAM will be the successor.

#### 11. 7 MHz – Codan Selcalls – no change

We observed again Codan Selcalls on 7108 – 7150 kHz in the evening hours. Parameters: 100 Bd – 170 Hz shift The idents contains only numbers and no letters. Location: Australia ? unconfirmed – anyway from Far East

#### 12. Miscellaneous news:

**No present national IARUMS Region 1 coordinators: PZK – Poland and SSA - Sweden**

7140 and 7180 kHz – A3E – Radio Eritrea without QRM (German PTT informed)

14295.0 kHz – harmonic from Radio Tajik on 4765 kHz (no change regardless many complaints)

28000 – 29700 CIS taxi services – FM (F3)

#### 13. Homepage IARU Region 1

<http://www.iau-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://iau-r3.org/iau-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	05	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad
DK2OM	1855,0	vt	vd	05	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1925,0	vt	vd	05	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3503,5	vt	dly	05	G	no ITU	FSK8	125	1750	ALE – British MIL Tascomm – shared band - legal!
DK2OM	3520,0	1915	09	05	E		USB			Spanish fishery
DK2OM	3525,0 RF	1930	15	05	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2000	dly	05	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	2036	06	05	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: full hour + 40 min - daily
DK2OM	3532,0	---	--	05	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	2040	06	05	E		USB			Spanish fishery
DK2OM	3550,0	0630	dly	05	F		A3E			French amateurs not respecting bandplans – every morning
DK2OM	3550,7	---	--	05	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – shared band!
DK2OM	3553,8	ady	dly	05	TUR		PSK8A	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3580,0 RF	2055	11	05	TUR		PSK8A	2400	2400	Stanag-4285 – 600 bps long – Ankara – shared band!
DK2OM	3585,0	ady	dly	05	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!
DK2OM	3586,0	vt	dly	05	HOL		PSK2A	40	40	Amsterdam - daily
DK2OM	3610,0 RF	2030	26	05	I		PSK4	75	2300	LINK11-CLEW – ship south of Sicily
DK2OM	3622,5	ady	dly	05	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!
DK2OM	3756,0	1800	dly	05	RUS		USB			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG
DK2OM	5350,0	1958	07	05	RUS		FMOP		50k	Russian coastal radar “Sunflower” – 43 sps – 5350 – 5400 kHz - Makhachkala
DK2OM	5350,0	1914	08	05	E		USB		2400	5350.0 – 5352.4 kHz - Spanish

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										<b>fishery splattering up – often in the evenings</b>
DK2OM	5360,5	---	--	05	RUS		F1B	50	200	Moscow - legal
DK2OM	5361,8 RF	2035	13	05	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user !
DK2OM	6998,7 RF	1000	18	05	RUS		PSK2A	120	2600	AT3004D – 6998.7 – 7001.3 kHz - Moscow
DK2OM	7000,0	vt	dly	05	INS		LSB USB			Indonesian pirates - singing and playing music - daily
DK2OM	7000,0	1820	01	05	I		LSB			Italian pirates – splattering up
DK2OM	7000,0	1848	09	05	?		USB			unid pirates – possibly ships
DK2OM	7005,0	vt	dly	05	INS		LSB			Indonesian pirates
DK2OM	7008,0	vt	dly	05	RUS		FMOP		103k	coastal radar „Sunflower“ – 43 sps – 6905 – 7008 kHz – east of Vladivostok
DK2OM	7010,0	vt	dly	05	INS		LSB			Indonesian pirates
DK2OM	7015,0	vt	dly	05	INS		LSB			Indonesian pirates – male and female voices
DK2OM	7020,0	vt	vd	05	ALB		FSK8	125	1750	ALE, “CS004A” “RS004D” “CS004” - daily
DK2OM	7025,0	vt	dly	05	INS		LSB			Indonesian pirates singing
DK2OM	7035,0	vt	dly	05	INS		LSB			Indonesian pirates singing
DK2OM	7039,2	1922	06	05	RUS	„F“	A1A			Cluster beacon „F“ - Vladivostok RUS Navy - <b>“RJS”</b>
DK2OM	7039,3	1904	10	04	RUS	„K“	A1A			Cluster beacon “K” Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - <b>“RCC”</b>
DK2OM	7039,4	1912	06	05	RUS	„M“	A1A			Cluster beacon „M“ – Magadan RUS Navy – <b>„RTS“ - daily</b>
DK2OM	7055,0	vt	dly	05	UKR		LSB			music and Russian voices
DK2OM	7088,8	1920	16	05	S	SL0FRO	A1A			7088.820 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	05	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft ? west of Izmir
DK2OM	7108,0	vt	29	05	CHN		PSK4A	60	2350	PRC 30 tone modem - LSB mode - pilot tone 450 Hz
DK2OM	7137,0	vt	dly	05	TWN		FSK8 LSB	125	1750	ALE, MIL-188-141A, “FBABA” “FWKMB” “FXIBY” “FCPSL” “FHKHD” “FVIKE” “FHVWY” “FCUGP” “FDRRK” “FWIML” ”FBQCY” ”FCEAX” Taiwanese navy
DK2OM	7138,0	0750	03 04	05	RUS	RDL	F1B	50	250 200	Kaliningrad – RUS navy finished 12 May
DK2OM	<b>7140,0</b>	<b>1827</b>	<b>dly</b>	<b>05</b>	<b>ERI</b>		<b>A3E</b>		<b>9k</b>	<b>7140.024 kHz - Radio Eritrea</b>
DK2OM	7160,0	0750	21	05	RUS		A1A			encrypted CW
DK2OM	<b>7180,0</b>	<b>1526</b>	<b>dly</b>	<b>05</b>	<b>ERI</b>		<b>A3E</b>		<b>9k</b>	<b>7180.022 kHz - Radio Eritrea</b>
DK2OM	7193,0	---	--	05	RUS	RDL	F1B	50	200	CIS36-50 - Kaliningrad
DK2OM	7197,0	vt	dly	05	TUR		FSK8	125	1750	ALE, „353013“ „334018“ „314013“ - Turkish Sivil Avunma – Turkish Civil Defense
DK2OM	7197,0	1924	21	05	RUS		PSK4B	120	2600	AT3104D - Moscow
DK2OM	<b>7200,0</b>	<b>---</b>	<b>--</b>	<b>05</b>	<b>BRM</b>		<b>A3E</b>		<b>9k</b>	<b>Myanmar Radio</b>
DK2OM	7200,0	1924	16	05	RUS		PSK2A	120	2600	AT3004D – 7198.7 – 7201.3 kHz – Kaliningrad
DK2OM	10100,8	ady	dly	05	D	DDK9	F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10114,8	0640	dly	05	RUS		F1B	100	1000	CIS14 – Moscow
DK2OM	10130,0	ady	dly	05	RUS		F1B	50	500	area of Chita – daily, all day
DK2OM	10130,0	vt	vd	05			USB			French amateurs not respecting bandplans
DK2OM	<b>10144,0</b>	<b>ady</b>	<b>dly</b>	<b>05</b>	<b>D</b>	<b>DK0WCY</b>	<b>A1A</b>			<b>10144.000 kHz - DK0WCY – German aurora beacon – just</b>

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										<b>for info!</b>
DK2OM	14000,0	1635	dly	05	FEa		USB			Far East pirates – east of Indonesia - daily
DK2OM	14000,0	vt	vd	05	B		USB			Brazilian pirates – Rio with North Brazil
DK2OM	14100,0	---	--	05	F		A1A			„051“ loop – daily 1658 – 1710 utc – area of Ternant
DK2OM	14116,0	0948	14	05	RUS		F1B	50	250	Moscow
DK2OM	14127,0	1010	23	05	RUS		FMOP		12k	OTH radar Contayner - 40 sps – north of Penza – long lasting
DK2OM	14139,0	0857	04	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	14140,0	vt	08	05	FEa		FMOP		10k	Far East OTH radar – 30 sps – 14140 – 14150 kHz – every 10 minutes – 40 sec blocks
DK2OM	14156,0	0755	08	05	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14156 – 14616 kHz
DK2OM	14165,0	1005	14	05	CHN		FMOP		10k	OTH radar – 11 sps – 14165 – 14175 kHz – long lasting – area of Chengdu
DK2OM	14171,0	0850	19	05	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14179,0	1024	02	05	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14179 – 14339 kHz
DK2OM	14187,0	1325	30	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	14192,0	0814	11	05	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad – often with 50 Bd and 200 Hz shift
DK2OM	14192,0	0949	01	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	14193,0	0751	11	05	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14193 – 14353 kHz
DK2OM	14194,0	0956	03	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	14197,0	0841	22	05	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts - jumping
DK2OM	14200,0 RF	0940	03	05	CHN		PSK2A	75	2200	PRC 16 tone modem – China – Shanghai - daily
DK2OM	14221,0	2003	26	05	KGZ		F1B	50	200	Bishkek – mostly idling - daily various times
DK2OM	14221,0	0823	05	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 1.9 sec bursts – „foghorn“
DK2OM	14226,0	0832	21	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14232,0 RF	0820	24	05			F1B	600	600	DPRK-FSK 600
DK2OM	14237,0 RF	0928	24	05			F1B	600	600	DPRK-FSK 600
DK2OM	14245,0	0953	22	05	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts - jumping
DK2OM	14253,0	1516	03	05	RUS		F1B	75	250	Moscow
DK2OM	14254,0	0953	23	05	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 14254 – 14414 kHz
DK2OM	14265,0	0805 0840	01 04	05 05	RUS		PSK2A	120	2600	AT3004D – Moscow
DK2OM	14278,0	0903	27	04	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14280,0	---	--	05	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” =

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										<b>Foreign Intelligence Service of Ukraine in Rivne</b>
DK2OM	14295,2	ady	dly	05	TJK		A3E/BC		9k	14295.163 kHz -3 <sup>rd</sup> from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14300,0 RF	0949	03	05	CHN		PSK2A	75	2200	PRC 16 tone modem – China – Shanghai
DK2OM	14302,0	0942	03	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14311,0	0957	22	05	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts - jumping
DK2OM	14315,0	0821	05	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14321,0	0901	04	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	14322,0	0952	03	05	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14331,0	0843	22	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14335,0	0825	05	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“
DK2OM	14339,0	0958	01	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	14340,0	0826	24	05	RUS		PSK2A	120	2600	AT3004D – weak – Far East Russia?
DK2OM	14341,0	0858	11	05	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts – „foghorn“ - jumping
DK2OM	14343,0	0845	22	05	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts - jumping
DK2OM	14348,5	vt	dly	05	THA	HSOZEA	A1A			HSOZEA beacon – 14348.488 kHz - every 5 minutes – daily - just for info!
DK2OM	18066,0	1438	07	05	CYP		FMCW		20k	UK OTH radar Cyprus – 50 sps – 18066 – 18086 kHz
DK2OM	18080,0	0625	27	05	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18107,0	---	--	05	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18150,0	---	--	05	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	---	--	05	B		USB			<b>Brazilian pirates – Rio de Janeiro with North Brazil – very often</b>
DK2OM	21145,0	vt	dly	05	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	21192,0	0942	15	05	CHN		FMOP		160k	Chinese wideband OTH radar – 10 sps – 21192 – 21352 kHz
DK2OM	21295,0	0756	17	05	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 10 sec bursts
DK2OM	21438,0	0835	10	05	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - often
DK2OM	21446,0	---	--	05	THA	HSOZEA	A1A			HSOZEA beacon – every 5 minutes - just for info!
DK2OM	28000,0	---	--	05	B		A3E			<b>Brazilian CBers – 28000 – 28325 – daily, all day - no change</b>

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28000,0	vt	vd	05	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28085,1	1921	29	05	POR ?		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28125,0	1629	25	05	CIS		F3E			CIS taxi – base station and taxi
DK2OM	28135,0	1320	25	05	CIS		F3E			CIS taxi – base station and taxi
DK2OM	28175,0	1428	24	05	CIS		F3E			CIS taxi
DK2OM	28275,1	1932	26	05	POR ?		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28286,0	1826	13	05	POR ?		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28305,0	1617	24	05	E		F3E			Spanish CBers – long lasting
DK2OM	28860,0	1435	24	05	IRN		AM pulse?		46k	Iran radar - 28837 – 28883 kHz – 150 sps – 313 sps alternating – North Iran

### IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS		
IRTS	3550	0650	08	05	F		AM	Group of French HAMs violating the band plan. Daily.		
IRTS	3590	0655	08	05	F		AM	Another group of French HAMs violating the band plan. Daily.		
IRTS	3720	1055	20	05	HOL or MM		USB	Group of Dutch fishermen. Medium signal. Also heard 27 <sup>th</sup> at 0620z. Also 30 <sup>th</sup> at 1315z.		
IRTS	3735	0925	22	05	POR or MM		USB	2 Portuguese fishermen. Very strong signals.		
IRTS	3737	0918	25	05	IRL/U K or MM		USB	2 Irish fishermen. Ulster accent. Huge signals. Very foul language. Loud motor noise from both ships. They give out about anything but still claim to have the best job in the world. Pathetic balderdash. Ends at 1050z.		
IRTS	5277	1945	02	05	RUS/C HN		FMOP	Radar from 5277 to 5331 kHz. Covers 3 Irish spot frequencies and makes the use of those impossible.		
IRTS	5328.5	0950	24	05	F or MM		USB	French fishermen. Splattering up to 5330.5 kHz- an EI spot frequency.		
IRTS	5342	2100	17	05	RUS/C HN		FMOP	Radar from 5342 kHz to 5407 kHz. Nearly daily all evening and night. The new 5 MHz allocation and 3 Irish spot frequencies are unusable.		
IRTS	5345	1130	16	05	E or MM		USB	2 Spanish fishermen chatting. Splattering up to 5345.5 kHz- an Irish SSB spot frequency. Also heard 30 <sup>th</sup> at 1315z.		
IRTS	5400	0745	05	05			AM	BC station in an Asian (?) language. Weak and unstable signal. Also heard on 7th with s/off at 0800z. Probably a harmonic. EI CW spot frequency.		
IRTS	5400	1050	16	05	F or MM		USB	French fishermen. Strong signal. Also 18 <sup>th</sup> all day every 30 minutes. Also 19 <sup>th</sup> . Also 21 <sup>st</sup> . Also 28th at 1900z. Irish CW spot frequency.		
IRTS	5398.5	1845	12	05	RUS/U KR		USB	Male voice in Russian, answered by a female voice. Exchange of letters and numbers. Sounds like separatist forces in the Russian/Ukrainian border region. Still on an hour later.		
IRTS	7055	1530	04	05	RUS/U KR		LSB	Ukrainian-Russian radio war. Big signal. Shouting of propaganda slogans. Nearly daily. Sometimes also in English as reported here: <a href="https://reflector.sota.org.uk/t/strange-transmission-on-40m-this-morning/20332">https://reflector.sota.org.uk/t/strange-transmission-on-40m-this-morning/20332</a> And:		



SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
								<a href="https://www.youtube.com/watch?v=K5LzoeW Gyyg">https://www.youtube.com/watch?v=K5LzoeW Gyyg</a>	
IRTS	7139	1805	06	05			Digital	Strong digital signal. Still on 10th at 0730.11th at 1300z.	
IRTS	7159	1215	01	05			Digital	Link Clew-11. Very strong. Not heard anymore when checked again at 1808z.	
IRTS	7180	1730	10	05	ERI		AM	Radio Eritrea. Good signal. Heard on some days.	
IRTS	7180	0640	24	05			Digital	Huge digital signal.	
IRTS	7201	1215	17	05			Digital	Strong digital signal, splattering down to 7199 kHz. Still on 20 <sup>th</sup> at 1200z	
IRTS	10110	0710	10	05	MRC or MM		USB	Moroccan fishermen. Medium signal.	
IRTS	14101	0940	23	05			FMCW	Radar from 14101 to 14140 kHz. Huge signals.	
IRTS	14191	1245	01	05	RUS		F1B	Russian navy, Kaliningrad. All hours of daylight every single day. Always a strong signal.	
IRTS	14281	0930	22	05			F1B	Strong signal.	
IRTS	18040	0700	17	05			FMCW	Radar from 18040 to 18080 kHz.	
IRTS	18056	0625	22	05			FMCW	Radar from 18056 to 18083 kHz	
IRTS	18080	0630	24	05	TWN		AM	BC Taipei. Heard on several days during the month with weak signal strength.	
IRTS	28029.6	1852	03	05	MM		CW	Fishing buoy off the Portuguese coast. Observed and reported by EI7GL John in County Cork: <a href="https://ei7gl.blogspot.com/2019/05/illegal-fishing-buoy-on-28029-mhz-3rd.html">https://ei7gl.blogspot.com/2019/05/illegal-fishing-buoy-on-28029-mhz-3rd.html</a>	
IRTS	28169.5		18	05	MM		CW	Fishing buoy	
IRTS	28209.8		18	05	MM		CW	Fishing buoy as above. Heard and reported by EI7GL John, County Cork:	
IRTS	28219.6		21	05	MM		CW	Fishing buoy as above. All four buoys got observed and reported by John EI7GL: <a href="https://ei7gl.blogspot.com/2019/05/illegal-fishing-buoy-on-28029-mhz-3rd.html">https://ei7gl.blogspot.com/2019/05/illegal-fishing-buoy-on-28029-mhz-3rd.html</a>	
IRTS	28260		19	05	MM		CW	Fishing buoy as above.	
IRTS	28837	0715	25	05	IRN			Strong radar from 28837 to 28883 kHz. Medium signal.	
IRTS	29317	0710	25	05			FMCW	Radar from 29137 to 29341 kHz. Strong signals.	
IRTS	29550	0745	24	05	RUS/UKR		USB	Military communications. Male voice. Letters and numbers. Most likely Donetsk area. Separatist militia.	

### KARS – Kuwait – 9K2RR (Faisal)

### MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3527.0	1903	7	5			PSK2		AT3004D
MRASZ	3527.0	1949	8	5			PSK2		AT3004D
MRASZ	3572.5	1955	22	5			F1B	250	
MRASZ	3595.0	1838	6	5			F1B	250	
MRASZ	3597.0	1904	7	5			PSK2		AT3004D
MRASZ	3626.0	1906	17	5			A1A		"VVVVVVV" long string with 50 Hz hum
MRASZ	7008.0	1909	13	5			F1B	250	
MRASZ	7016.0	1908	13	5			F1B	250	
MRASZ	7036.0	1908	7	5			F1B	250	
MRASZ	7036.0	1910	13	5			F1B	250	
MRASZ	7138.0	1834	6	5			F1B	200	

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	7138,0	1911	7	5			F1B	200	
MRASZ	7138,0	1740	8	5			F1B	200	
MRASZ	7138,0	1126	11	5			F1B	200	
MRASZ	7140,0	1740	8	5	ERI		A3E		R. Eritrea
MRASZ	7180,0	1739	8	5	ERI		A3E		R. Eritrea
MRASZ	7200,0	1915	17	5			PSK2		AT3004D
MRASZ	14192,0	1130	11	5	RUS		F1B	200	
MRASZ	14192,0	1913	13	5	RUS		F1B	200	
MRASZ	14192,0	1459	23	5	RUS		F1B	200	
MRASZ	14192,0	0755	26	5	RUS		F1B	200	
MRASZ	14192,0	1659	27	5	RUS		F1B	200	

### OEVSV – Austria – OE3GSA (Gerd)

### REF – France – F5MIU (Francis)

not available

### REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	08.00	14	05	E		J3E-U			Fishery
REP	3525	08.44	17	05	POR		J3E-U			Fishery
REP	3550	08.10	01	05	POR		J3E-U			Fishery
REP	3550	06.30	08	05	E		J3E-U			Fishery
REP	3550	08.09	10	05	F		A3E			French amateurs ignoring IARU Bandplan, daily
REP	3600	20.00	03	05			QPSK			Stanag 4285 encrypted, shared band
REP	7000	09.00	21	05			J3E-U			Unid language, fishery
REP	7010	21.00	16	05		920014	MFSK8			Mil-Std 188-141A 92xxxx
REP	7010	19.14	16	05			J3E-L			Scrambled voice
REP	7010	19.20	20	05	RUS		F1B	75	250	CIS50
REP	7015	16.12	25	05			J3E-U			Unid language net
REP	7025	08.15	05	05			J3E-L			Unid language
REP	7025	22.33	16	05	B		J3E-U			Fishery
REP	7025	Dly	Dly	05		2010	MFSK8			MilStd 188-141A 2xxx
REP	7100	22.30	16	05	CHN		FMOP	10	160k	OTH
REP	7100	18.30	20	05	RUS		F1B	50	200	CIS36
REP	7110	08.00	14	05	RUS		FSK	300	500	FSK encrypted
REP	7125	07.38	14	05	RUS		FSK			CIS 36-50 50/200
REP	7130	07.15	08	05	RUS		FSK	75	500	CIS75 encrypted
REP	7140	16.15	02	05	ETH		A3E			BC Eritrea, daily
REP	10100	20.05	18	05			A3E			5 Letters Crypt Station
REP	10110	23.45	16	05	E		J3E-U			Fishery
REP	10125	11.10	14	05			J3E-U			Fishery
REP	10130	12.00	21	05			FMCW	50	20k	OTH
REP	14140	17.33	02	05	CHN		FMOP	10	100k	OTH
REP	14150	15.20	02	05	E		J3E-L			Fishery
REP	14195	10.05	26	05	RUS		FSK	50	200	Navy encrypted
REP	14325	14.00	20	05	E		J3E-U			Fishery
REP	18100	13.18	02	05			FMCW	50	20k	OTH
REP	21185	16.01	25	05	MRC		J3E-U			Fishery
REP	28550	11.30	12	05	RUS		F3E			Taxis dispatcher
REP	28725	12.20	12	05	RUS		F3E			Taxis dispatchers

## **RSGB – United Kingdom – G4DYA (Richard)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	7008.0	1937	13	05			F1B		250	
RSGB	7016.0	1933	13	05			F1B		250	
RSGB	7038.5	ady	dly	05	CZE	OK0EU	A1A			For info: QRP propagation beacon
RSGB	7055.0	vt	vd	05			J3E			LSB Ukranian/Russian ops squabbling
RSGB	7138.0	vt	03-12	05			F1B	50	200	
RSGB	7140.02	vt	vd	05	ERI	VoBM1	A3E			BC
RSGB	7151.0	1902	20	05			F1B		500	
RSGB	7178.0	0739	28	05			J7D			USB 7176.0 / CIS-12
RSGB	7180.02	vt	vd	05	ERI	VoBM2	A3E			BC
RSGB	7197.0	1928	21	05			J7D			USB 7195.0 / CIS-12
RSGB	7200.0	vt	16-18, 20	05			J7D			USB 7198.0 / CIS-12
RSGB	10100.8	ady	dly	05	D	DDK9	F1B	50	450	For info: Primary user: WX broadcast
RSGB	14026.0	0841	21	05			J7D		2K70E	USB 14024.0 / CIS-12
RSGB	14089.9	0748 0741	21 27	05			J7D		2K80E	USB 14089.0 / CIS-60
RSGB	14116.0	1001	14	05			F1B		250	
RSGB	14265.0	0806	01	05			J7D		2K70E	USB 14263.0 / CIS-12
RSGB	14192.0	vt	11-12, 30-31	05			F1B		200	
RSGB	14240.0	1630	22	05			F1B		250	
RSGB	14295.16	1100	03	05	TJK	Tajik R.	A3E			3rd harmonic 4765 kHz
RSGB	18107.0	0902	05	05			F1B		200	
RSGB	28670.0	0841	26	05			P0N		20K0E	prf 50 Hz. Ceased at 0844
RSGB	29650.0	0841	26	05			P0N		20K0E	prf 50 Hz

## **RSK – Kenya – 5Z4BV (Kamweti)**

Soc	kHz	UTC	dd	mm	ITU	Ident	Mode	Details
RSK	7035	1325	8	5	?	?	FMCW	OTHR
RSK	7035	1118	13	5	E. Africa?	?	J3E-u	Kiswahili msg net
RSK	7089,1	v.t.	occ.	5	Central Africa?	?	J3E-u	French/vernacular msg net
RSK	7095	1055	25	5	Central Africa?	?	J3E-u	Vernacular msg net
RSK	7117	1148	17	5	E. Africa?	?	J3E-u	Vernacular QSO
RSK	7122,4	p.m.	17	5	E. Africa?	?	J3E-u	Recorded 'broadcast' of 'David Casler' Youtube channel
RSK	7140	v.t.	nr.dly	5	Central Africa?	?	J3E-u	Vernacular QSO
RSK	7140	v.t.	dly	5	Eritrea	VoBM 1	A3E	Commercial broadcast Voice of the Broad Masses of Eritrea
RSK	7177,5	a.m.	17	5	E. Africa?	?	J3E-u	Recorded 'broadcast' of 'David Casler' Youtube channel
RSK	7180	v.t.	dly	5	Eritrea	VoBM 2	A3E	Commercial broadcast Voice of the Broad Masses of Eritrea
RSK	7185	v.t.	nr.dly	5	E. Africa?	?	J3E-u	Kiswahili/vernacular QSO

## **SRAL – Finland – OH2BLU (Pekka)**

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000.0	0800-0845	15	5		UiMUX	PSK2	120	2600	
SRAL	7006.5	'0835-	24	5	RUS	UiPTR	F1B		250	
SRAL	7010.0	'0950-	17	5	RUS	UiMUX	PSK2	120	2600	
SRAL	7015.0	'0925-	10	5		UiPTR	F1B		200	
SRAL	7016.0	0800-1440/	*	5	RUS	UiPTR	F1B		250	Days: 1. 3. 10. 15. 17.
SRAL	7017.5	'0845	24	5		UiPTR	F1B		500	Unstable fq
SRAL	7018.9	0605-1800	16 19	5		UiPTR	F1B/ NON		200	
SRAL	7020.0	0900-	1	5		UiPTR	F1B		250	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		0920								
SRAL	7022.0	0800-0940	15	5		UiMUX	PSK2	120	2600	
SRAL	7025.0	0810-0830/	10	5		UiPTR	F1B		200	
SRAL	7026.0	1540-1630	1	5	RUS	UiMUX	PSK2	120	2600	
SRAL	7032.2	0515-1730/	17 - 20	5		UiMUX	PSK?			
SRAL	7034.0	0500-1740/	*	5	RUS	UiPTR	F1B/NON		250	Days: 10. 11. 20. 31.
SRAL	7060.0	'0810	15	5		UiMUX	PSK2	120	2600	
SRAL	7072.0	0600-1505/	20	5	RUS	UiMUX	PSK2	120	2600	
SRAL	7082.0	'0955	17	5		Uiclew	LINK			usb
SRAL	7092.0	'0730	13	5		UiMUX	PSK2	120	2600	
SRAL	7099.0	1710	30	5		Uicw	A1A			5BL
SRAL	7101.0	'0515	30	5		UiMUX	PSK2	120	2600	
SRAL	7110.0	1245-1300	23	5	RUS	UiPTR	F1B		250	
SRAL	7114.0	0445-0600	*	5	RUS	UiPTR	F1B/NON		250	Days: 1. 2. 5.
SRAL	7114.0	0900-0920	3	5	RUS	UiMUX	PSK2	120	2600	
SRAL	7114.0	1215	31	5		Uicw	A1A			5BL
SRAL	7138.0	h24	*	5	RUS	UiPTR	F1B/NON		200	Days: 3. - 12.
SRAL	7140,0	0345-0630	*	5	ERI	VoBME	A3E			Days: 1. - 15. 23. - 31.
SRAL	7140,0	1400-1840/	*	5	ERI	VoBME	A3E			Days: 1. - 15. 23. - 31.
SRAL	7151.0	0500-0603/	20	5	RUS	UiPTR	F1B		500	
SRAL	7159.0	0430-1330	1	5	IW	Uiclew	LINK 11		dsb	
SRAL	7160.0	0745-0900	21	5	RUS	Uicw	A1A			5F
SRAL	7169.0	'0505	2	5	RUS	NQZB	A1A			
SRAL	7178.0	0600-0900	*	5	RUS	UiMUX	PSK2	120	2600	Days: 20. 21. 24.
SRAL	7180.0	0345-0630	dly	5	ERI	VoBME	A3E			
SRAL	7180.0	1400-1840/	dly	5	ERI	VoBME	A3E			
SRAL	7184.0	'0645	30	5		UiMUX	PSK2	120	2600	
SRAL	7185.5	0500-1400	*	5	UZB	V	A1A			Days: 1. 2. 5.
SRAL	7196.0	0740-0910	4	5		Uicw	A1A			Random MR
SRAL	7198.0	1115	23	5	RUS	UiMUX	PSK2	120	2600	
SRAL	7200.0	0500-1830	*	5	RUS	UiMUX	PSK2	120	2600	Days: 16. 17. 18. 20. 21. 28.
SRAL	7 MHz	1620	2	5	CHN	UiOTHR	FMCW			10Hz/ 60kHz
SRAL	10 MHz			5	CYP	UiOTHR	FMCW			25/50Hz, 20kHz (WebSDR 15d)
SRAL	14 MHz	0515-0600	3 5	5	CHN	UiOTHR	FMCW			10Hz/ 40kHz
SRAL	14 MHz	0530-1300	*	5	CHN	UiOTHR	FMCW			66Hz/ 10kHz, 4 sec. Days: 3. 4. 7. 11. "foghorn"
SRAL	14 MHz	0700-1315	23	5	RUS	Kontainer	FMCW			40Hz/ 15kHz
SRAL	14004.0	1040-1144/	28	5		UiPTR	F1B		500	
SRAL	14008.0	'0850	20	5		UiPTR	F1B		250	
SRAL	14108.0	0720-	*	5	RUS	L6QN etc	A1A			Days: 16. 17. 19. 21. 25.

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1230								28.
SRAL	14118.0	0520-0830	16 24	5	RUS	UiCW	A1A			5BL
SRAL	14118.0	0655-0715	23	5	RUS	UiMUX	PSK2	120	2600	
SRAL	14122.0	0655-0715	23	5	RUS	UiMUX	PSK2	120	2600	
SRAL	14160.0	1800-1906/	28	5	RUS	UiPTR	F1B		250	
SRAL	14169.0	'0845	20	5	RUS	UiPTR	F1B		200	
SRAL	14192.0	0500-1815	*	5	RUS	UiPTR	F1B		200	Days: 1. 3. 4. 8. 12. 17. 19. 23. 24. 25. 27. 28. 30. 31.
SRAL	14212.0	1510-1516/	25	5	RUS	425	R3E-u			
SRAL	14221.0	0445-0600/	dly	5	KGZ	UiPTR	F1B		200	
SRAL	14226.0	1215-1240	30	5	RUS	UiPTR	F1B		250	
SRAL	14242.0	0520-0545/	18	5	RUS	UiMUX	PSK2	120	2600	
SRAL	14265.0	0745-0830	1	5	RUS	UiMUX	PSK2	120	2600	
SRAL	14295.2	0445-1830	dly	5	TJK	R Tojikiston	A3E			3f, very unstable fq days: 12. 13. 14. 21. 23. 29.
SRAL	14344.0	0850-0915	12	5		UiPTR	F1B			
SRAL	18 MHz	0450-1045	*	5	CYP	UiOTHR	FMCW			25/50Hz/20kHz, days: 8. 10. 15. 19. 26. 28. (WebSDR 19d)
SRAL	18080.0	0600-0800	*	5	TWN	Sound of Hope	A3E			CHN jam by BC, days: 1. 12. 13. 15. 16. 19. 23. 24. 25. 28.
SRAL	21 MHz	0515-1145	*	5	CYP	UiOTHR	FMCW			25/50Hz/20kHz, days: 6. 11. 16. 23. 25. 29. (WebSDR 7d)
SRAL	21438.0	/0830-1630	*	5	RUS	RCV	A1A			Days: 3. 6. 7. 8. 10. 13. 16. 17. 18. 23. 24. 25. 28. 29. 30.
SRAL	24 MHz			5		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28 MHz			5	IRN	UiOTHR	FMCW			307 & 870Hz / 60 kHz.
SRAL	28860.0	0500-1800	*	5	IRN	UiOTHR	FMCW			150 & 313Hz / 60 kHz. Days: 17. 23. 25. 28. 29. 30.
SRAL	29330.0	'0630	25	5	CYP	UiOTHR	FMCW			50Hz/ 20kHz
SRAL	28 MHz	0500-1815	*	5	RUS	Taxi disp.	F3E			89 reports, days: 4. 14. 17. 18. 21. 23. 24. 25. 28. 30.

### URE – Spain – EA6AMM (Gaspar)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
URE	7088.8	20:50	15	5			PSK8A	2400	2400	Link11 SLEW
URE	7138	10:35	3	5	RUS		F1B		200	Kaliningrad. RUS Navy. Also on 4,5,6, 7, 8,9,10,11, 12, 13
URE	7140	VT	VD	5	ERI		A3E			BC: "Voice fo the Broad Masses 1", Eritrea
URE	7180	VT	VD	5	ERI		A3E			BC: "Voice fo the Broad Masses 2", Eritrea
URE	7200	07:10	17	5	RUS		PSK2A	120	2600	AT3004-D. Kaliningrad.Also on 20, 21
URE	10105	04:55	21	5			FMOP		20 k	OTH Radar from 10095 to 10115 kHz
URE	10130	21:02	12	5			FMOP		20 k	OTH Radar
URE	14113.45	06:17	19	5			FSK	600	600	DPRK FSK 600. Also on 20, 21
URE	14192	10:10	3	5	RUS		F1B		200	Kaliningrad. RUS Navy. Also on 9, 15, 18, 19
URE	14221	05:06	21	5			F1B		200	

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
URE	14253	15:08	3	5			F1B		250	
URE	14286	15:22	5	5			A3E			Broadcasting. Voice + 10 music notes repeating all the time
URE	14350	21:30	6	5						"Dot per second" signal
URE	18107.1	08:46	5	5			F1B		200	
URE	18065	07:04	17	5			FMOP		20 k	OTH Radar
URE	18170	07:25	17	5			FMOP		20 k	OTH Radar

### USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
<b>80m band informational only! - Amateur co-primary, shared with other also primary allocated services!</b>										
USKA	3525.0	2050	15	05			DQPSK	14x75	~6k1	LINK 11 DSB often
USKA	3527.0	2056	15	05		RTL	F1B	50	200	almost daily
USKA	3527.0	2136	30	05			J7D	12x120	2k7	PSK-2A; CIS12 aka AT3004D
USKA	3545.0 VFO USB	2146	27	05			G1D PSK8	2400	2k7	MIL 188-110A (D2) mod (Hybrid) preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	3549.0 VFO USB	2115	27	05			G1D PSK8	2400	2k7	MIL 188-110A (D2) mod (Hybrid) preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3550.0	2100	15	05			J7D	12x120	2k7	PSK-2A; CIS12 aka AT3004D
USKA	3580.0 VFO USB	2102	15	05			G1D PSK8	2400	2k7	STANAG 4285 often
USKA	3582.0	2056	20	05			J7D	12x120	2k7	PSK-2A; CIS12 aka AT3004D
USKA	3582.0	2043	27	05			J7D	12x120	2k7	BPSK; CIS12 aka AT3004D
USKA	3640.0	2149	30	05			F1B	75	250	
USKA	3732.8	2046	27	05			G1D PSK8	2400	2k7	MIL 188-110A D2 mod (Hybrid); preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	5361.8 VFO USB	2223	13	05	DNK		G1D PSK8	2400	2k7	STANAG 4285; reported as Danish Navy <b>legal !</b>
USKA	7000.0	0941	18	05			J7D	12x120	2k7	BPSK; CIS12, partially in 40m band
USKA	7072.0	1413	20	05			J7D	12x120	2k7	PSK-4; CIS12 aka AT3104D
USKA	7088.0 VFO USB	2038	15	05			G1D PSK8	2400	2k7	Bursts; LINK 11 SLEW
USKA	7089.8	2018	15	05			PSK-8	2400		
USKA	7104.7	2134	14	05		various	F1B	100	170	CODAN Selcall often
USKA	7107.8	2152	14	05		various	F1B	100	170	CODAN Selcall often
USKA	7110.7	2136	14	05		various	F1B	100	170	CODAN Selcall often
USKA	7113.75	2138	14	05		various	F1B	100	170	CODAN Selcall often
USKA	7125.8	2159	14	05		various	F1B	100	170	CODAN Selcall often
USKA	7131.75	2154	14	05		various	F1B	100	170	CODAN Selcall often
USKA	7134.7	2147	14	05		various	F1B	100	170	CODAN Selcall often
USKA	7138.0	1654	05	05			F1B	50	200	often
USKA	7140.0	1658	05	05	ERI	VOBM	A3E		~ 9k	BC
USKA	7140.7	2140	14	05		various	F1B	100	170	CODAN Selcall often
USKA	7143.7	2142	14	05		various	F1B	100	170	CODAN Selcall often
USKA	7146.7	2145	23	05		various	F1B	100	170	CODAN Selcall often
USKA	7149.7	2146	14	05		various	F1B	100	170	CODAN Selcall often
USKA	7151.0	1658	20	05			F1B	75	500	
USKA	7160.0	0854	27	05			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
USKA	7180.0	1659	05	05	ERI	VOBM	A3E		~ 9k	BC almost daily
USKA	7184.0	0718	30	05			J7D	12x120	2k7	PSK-4B; CIS12 aka AT3104D
USKA	7197.0	2209	14	05	TUR	367013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2217	14	05	TUR	342018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2222	14	05	TUR	331013	MFSK8	125	1750	ALE, MIL 188-141A

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7197.0	2225	14	05	TUR	306023	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	1905	21	05			J7D	12x120	2k7	PSK-4; CIS12; aka AT3104D often
USKA	7197.0	2140	22	05	TUR	315013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2142	22	05	TUR	371013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2143	22	05	TUR	8241	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7198.0	1144	13	05			J7D	12x120	2k7	PSK-2; CIS12 often
USKA	14007.875	1322	20	05			A1A			Jammer (dashes and dots)
USKA	14008.0	1322	20	05			F1B	50	250	often
USKA	14091.0	0848 0827	21 27	05			OFDM6 0	30	~ 2.75k	PSK4; spacing 44.45Hz; pilottone
USKA	14127.0	1336	20	05			FMOP	40 sps	appx 12k	OTHR; (long lasting) often
USKA	14140.0	0905	29	05			FMOP	40 sps	appx 12k	OTHR
USKA	14192.0	0908	06	05			F1B	50	200	often
USKA	14200.0	0912	29	05			FMOP	40 sps	appx 12k	OTHR; (long lasting)
USKA	14210.0	1119	23	05			FMOP		appx 10k	OTHR
USKA	14221.0	2009	20	05			F1B	50	200	
USKA	14240.0	1601	22	05			F1B	75	250	
USKA	14240.0	0914	29	05			FMOP	40 sps	appx 12k	OTHR; (long lasting)
USKA	14278.0	1328	20	05			FMOP	50 sps	10k	OTHR
USKA	14340.0	0617	24	05			J7D	12x120	2k7	PSK-2; CIS12 aka AT3004D
USKA	18113.4	1336	21	05			F1B	600	600	ARQ
USKA	18165.0 VFO USB	1015	28	05			FMCW	50 sps	20k	OTHR, partially in 17m band
USKA	21100.0	0813	15	05			FMOP	40 sps	appx 12k	OTHR
USKA	21438.0	1011	27	05	RUS	RCV	A1A			letters + figures almost daily
USKA	28605.0	1308	27	05			FMCW	50 sps	20k	OTHR (long lasting)
USKA	28860.0	1518	27	05			Puls	150 + 313 sps	40k	OTHR, Bursts, various sweep-rates and durations
USKA	29350.0	1017	27	05			FMCW	25 sps	20k	OTHR (long lasting)

### **Veron – Netherlands – PG1R (Ruud)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3527,0	2004	06	05	RUS	UiPTR	F1B		Revs
VERON	3562,0	2010	29	05	CIS	9GAY	A1A		5BL ending 908 RPT AL K
VERON	3562,0	2030	29	05	CIS	9GAY	A1A		Procs/Calls to: ZYCL MI9L 4UKI KZ7Z WMCW LUFD 5A1K MAW8 LG5O JZBH CSTF
VERON	3562,0	2025	06	05	CIS	5C7J	A1A		SRTM de 5C7J QSA ? K
VERON	3592,0	2015	06	05	CIS	LDBO	A1A		LDBO QTC 574 25 6 2310 574 = ZFX 885 = PPPPP 5BL
VERON	3638,0	1933	09	05	CIS	UiCW	A1A		5BL
VERON	3673,5	0941	10	05	HOL	UiVFT	J3E-u		Weather Forecast and Synopsis from Dutch Coast Guard to All Ships
VERON	3700,0	1906	16	05	CIS	UiCW	A1A		11111 5F
VERON	7016,0	0943	17	05	RUS	UiPTR	F1B		Ptr
VERON	7037,0	1338	14	05		192	A1A		99835 5F
VERON	7050,0	1330	18	05	UKR/RUS		J3E-1		Songs; S5
VERON	7055,0	1434	07	05	UKR/RUS		J3E-1		Music; S7
VERON	7138,0	0909	03	05	CIS	UiPTR	F1B		Revs/Ptr also 4/5 12.40 UTC 10/5 09.12 UTC
VERON	7138,0	1433	07	05	RUS		F1B	200	RUS Navy; Kaliningrad; S9+
VERON	7138,0	1329	10	05	RUS		F1B	200	RUS Navy; Kaliningrad; Idle; S9+
VERON	10103,0	1007	21	05		UiPTR	F1B		Ptr

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	14008,0	0908	01	05	CIS	UiPTR	F1B		Carrier/Revs/Ptr
VERON	14025,0	1234	14	05	RUS	OTHR	FMOP		radar
VERON	14108,0	0902	11	05	CIS	IJLT	A1A		Calls to: YPWS WEFL STBP P6TP
VERON	14108,0	0952	11	05	CIS	IJLT	A1A		IJLT QTC ZWK K
VERON	14108,0	0953	11	05	CIS	IJLT	A1A		IJLT 527 45 11 1248 527 = ZWK 824 = ONHRO 5BL
VERON	14108,0	0829	12	05	CIS	CM2U	A1A		CM2U 806 43 12 1106 806 = 764 = MMMMM 5BL
VERON	14108,0	0836	12	05	CIS	CM2U	A1A		Calls to: 9W8Q 2YWF Y33Y CI6C
VERON	14108,0	1000	17	05	CIS	AOHL	A1A		LZ5H de AOHL QTC 319 32 17 12.. 319 = 625 = MMMMM 5BL
VERON	14108,0	1001	18	05	CIS	ONJC	A1A		Procs/Calls to: F76L 4UXM AIH6 LLNR BSHX A42F
VERON	14108,0	1010	18	05	CIS	O28Q	A1A		O28Q 485 33 18 1250 485 = 195 = MMMMM 5BL
VERON	14108,0	1018	18	05	CIS	ONJC	A1A		ONJC 849 43 18 1304 849 = 195 = MMMMM 5BL
VERON	14108,0	0943	21	05	CIS	8QGX	A1A		8QGX OK ZIR ZXV QYT9 K
VERON	14108,0	0949	21	05	CIS	8QGX	A1A		MVC6 de 8QGX ZIL ZIR ZLM QYT 9 K
VERON	14108,0	0953	21	05	CIS	8QGX	A1A		N6FK de 8QGX QTC ZMW K
VERON	14108,0	0954	21	05	CIS	8QGX	A1A		8QGX 980 38 21 1248 980 = ZMW 173 = MMMMM 5BL
VERON	14108,0	1008	22	05	CIS	1RAU	A1A		I5BT de 1RAU QTC ZBF K
VERON	14108,0	1010	22	05	CIS	1RAU	A1A		1RAU 500 33 22 1306 500 = ZBF 915 = MMMMM 5BL
VERON	14116,0	0928	14	05	RUS	UiPTR	F1B		Ptr
VERON	14116,0	1235	14	05	RUS	UiPtr	F1B		Ptr
VERON	14118,0	0932	10	05	CIS	UiCW	A1A		5BLalso 11/5 09.05 UTC
VERON	14118,0	0959	11	05	CIS	E7SL	A1A		E7SL 449 34 11 1255 449 = Z.C 824 = UZZVV 5BL
VERON	14118,0	0932	15	05	CIS	E7SL	A1A		E7SL 369 34 15 1228 369 = ZBW 721 = JZQZM 5BL
VERON	14169,0	0855	20	05		UiPTR	F1B		Ptr
VERON	14172,2	0930	31	05		UiPTR	F1B		Ptr
VERON	14192,0	1710	13	05	RUS	UiPTR	F1B		Revs/Ptr also 14/5 09.31 UTC 29/5 13.45 UTC
VERON	14240,0	1003	22	05		UiPTR	F1B		Ptr
VERON	14263,0	0909	01	05		UiPTR	F1B		Ptr
VERON	14317,0	0853	31	05	CIS	MSOM	A1A		Calls
VERON	14320,0	1143	30	05	UiCAR		NON		

# The monitoring team of IARU Region 1

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German BNetzA Konstanz

All our friends and contributors worldwide!

Many thanks for your interest!

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