



Monitoring System

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The monthly newsletter for Region 1

January 2019

The 28 members of the IARUMS Region 1 Monitoring Team:



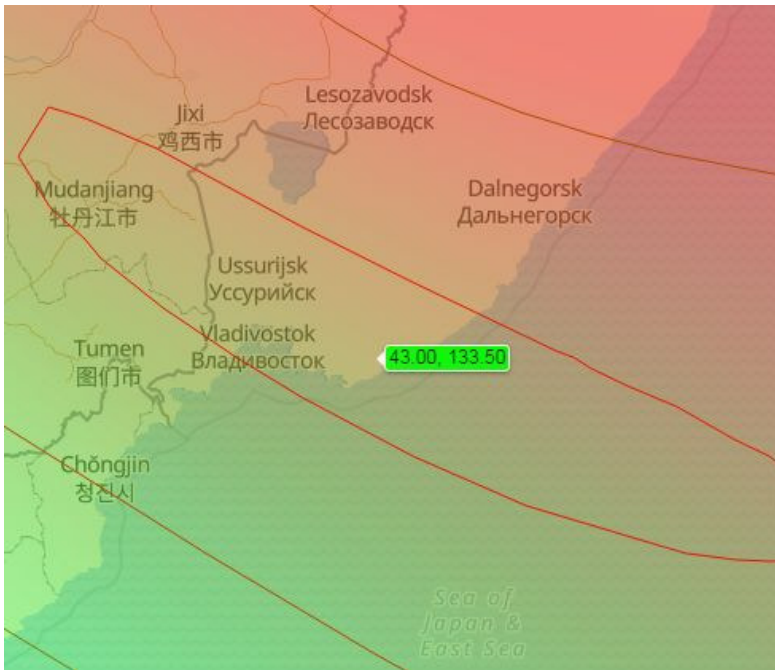
Acknowledgements

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 ++ OEVS: OE3GSA – Gerd ++ PZK: SP9BRP – Jan ++ 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. Russian coastal radar “Sunflower” on 80 m

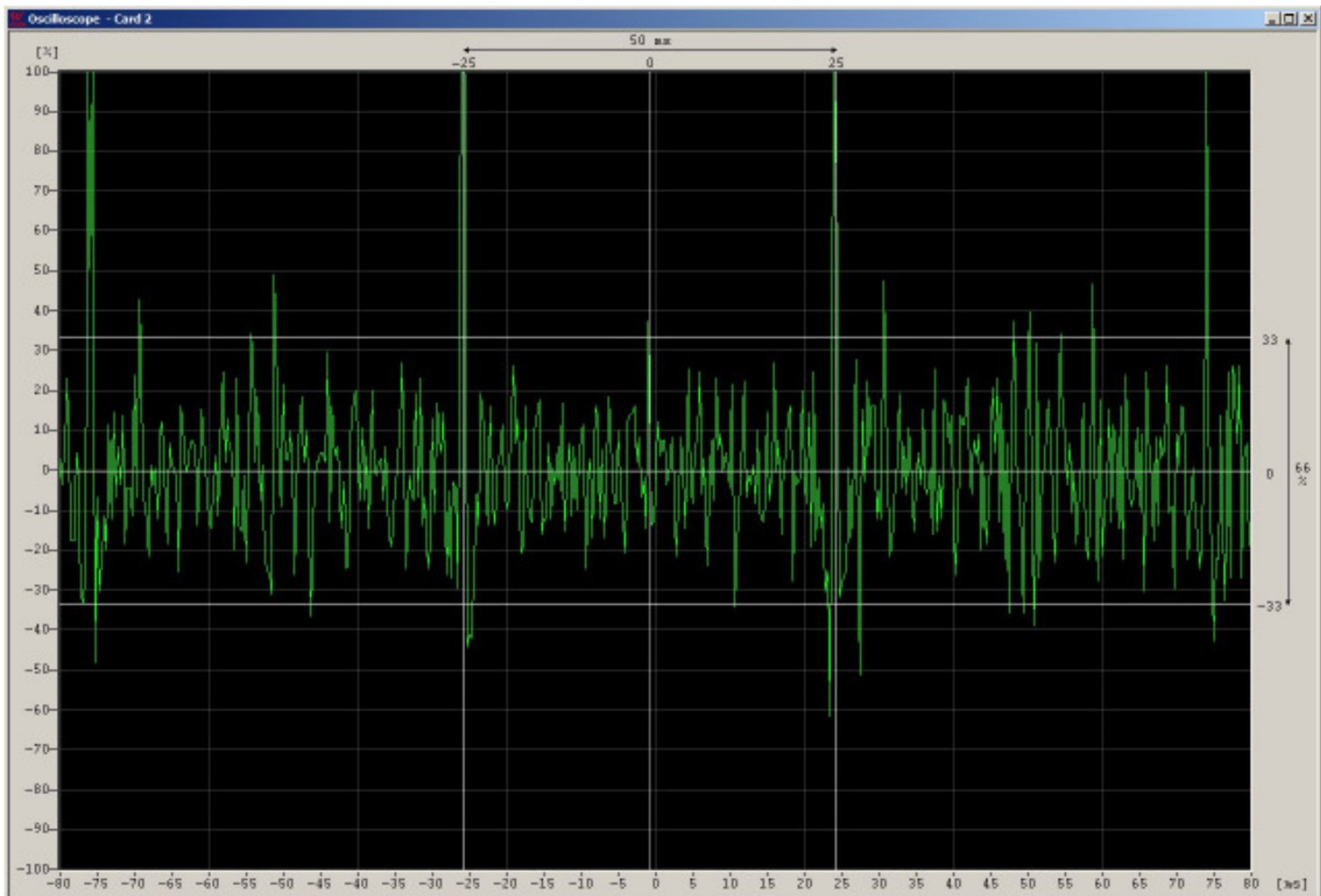
The Russian coastal radar Sunflower on 3716 kHz (center) was audible during the nights. Parameters: FMOP - 43 sps
Location: East of Vladivostok.



TDoA bearing on 3716 kHz on January 12th.

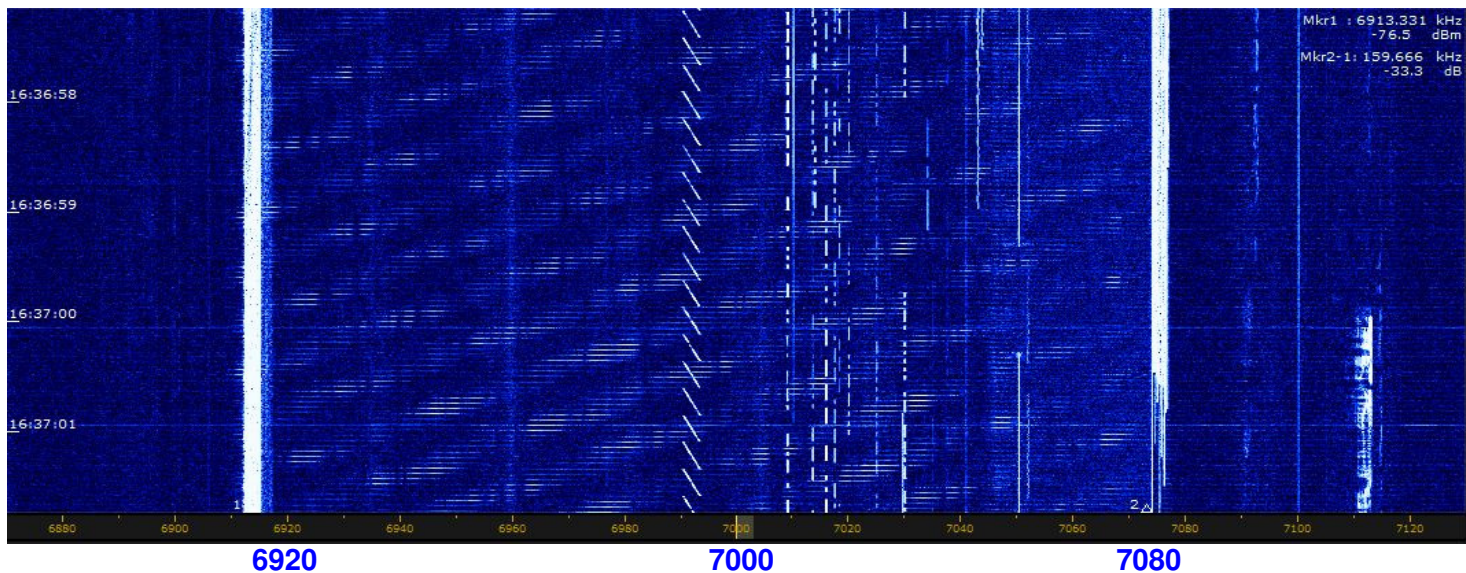
2. Chinese wideband OTH radar on 7000 kHz

A Chinese wideband OTH radar appeared on 7000 kHz on Jan. 3rd. Parameters: 160 kHz wide, 20 sweeps/sec.
Sweep rate measurement with Wavcom W-Code oscilloscope: 1000 msec : 50 msec = 20 sweeps/sec



3. 7001.0 – LSB – Moroccan fishery – often

Chinese wideband OTH radar on 7000 kHz on the Perseus screen (Jan. 3rd):

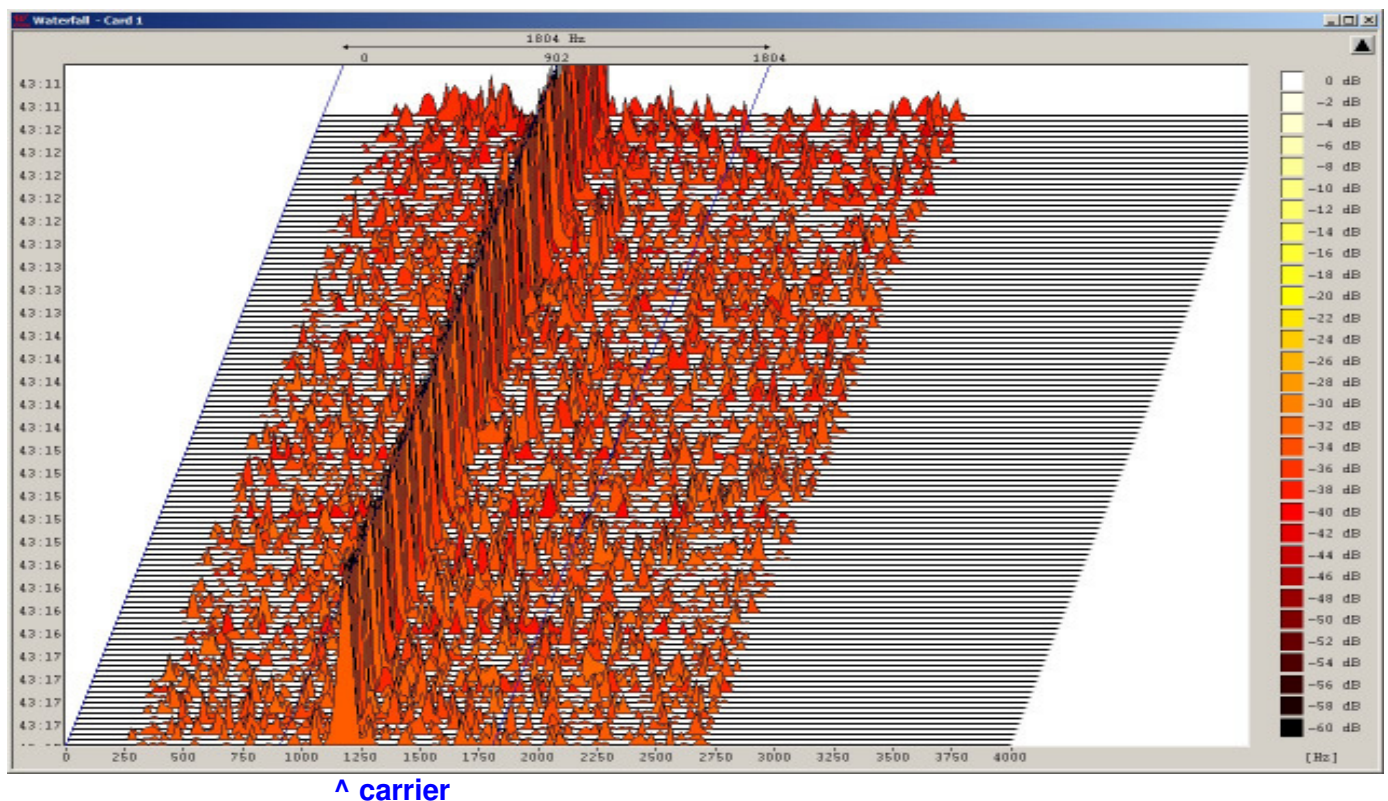


4. Russian OFDM 60 on 7000.9 kHz (center)

We observed a Russian OFDM 60 signal on 7000.9 kHz center. Parameters: PSK8B – 35.55 Bd – 2760 Hz shift.
Location: Area of Smolensk (see table below)

5. 14295.0 kHz – harmonic from 4765 kHz – Radio Tajik – still active

Screenshot: The signal on the W-Code Waterfall with carrier, weak modulation and some white noise.



6. Miscellaneous news:

5353.0 kHz – USB - fishermen – UK or Ireland

7001.0 kHz – LSB- Moroccan fishery, often

7120.0 kHz – A3E – Radio Hargeisa off in January 2019

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

14295.0 kHz – harmonic from Radio Tajik on 4765 kHz (no change inspite several complaints)

7. 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 Co-ordinators

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	2050	23	01	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad
DK2OM	1855,0	1940	18	01	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1925,0	1940	18	01	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3520,0	1810	18	01	F		USB			French fishery
DK2OM	3525,0 RF	---	--	01	F		PSK8	2400	2400	Link11–SLEW - area of Marseille
DK2OM	3527,0	2000	dly	01	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	---	--	01	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: full hour + 40 min - daily
DK2OM	3532,0	---	--	01	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3532,0	1952	24	01	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3535,0	1814	18	01	F		USB			French fishery
DK2OM	3535,8	1948	25	01	UKR		PSK2A	1200	1200	traffic and idle
DK2OM	3548,0	---	--	01	RUS	RDL	F1B	50	200	RUS navy Kaliningrad
DK2OM	3550,0	0630	dly	01	F		A3E			French amateurs not respecting bandplans – every morning
DK2OM	3550,0	1930	19	01	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	3550,7	737	29	01	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial – shared band!
DK2OM	3553,8	ady	dly	01	TUR		PSK8A	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3585,0	ady	dly	01	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!
DK2OM	3586,0	vt	dly	01	HOL		PSK2A	40	40	Amsterdam - daily
DK2OM	3590,0	2010	31	01	RUS		PSK2A	120	2600	AT3004D – area of Smolensk
DK2OM	3594,2	---	--	01	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	01	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3622,5	ady	dly	01	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3756,0	1800	dly	01	RUS		USB			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	5340,0	1555	04	01	RUS		FMOP		50k	Russian coastal radar "Sunflower" – 43 sps – 5340 – 5390 kHz - Makhachkala
DK2OM	5350,0	---	--	01	E		USB			Spanish fishery – splattering up
DK2OM	5350,0	1547	24	01	RUS		FMOP			Russian coastal radar "Sunflower" – 43 sps – 5310 – 5370 kHz - Makhachkala
DK2OM	5350,0	1530	26	01			FMOP		55k	Russian coastal radar "Sunflower" – 43 sps – 5310 – 5365 kHz - Makhachkala
DK2OM	5352,0	1330	25	01	RUS		PSK2A	120	2600	AT3004D – modem idle – Kaliningrad – legal!
DK2OM	5353,0	1746	29	01			PSK2A	120	2600	AT3004D – submode idle
DK2OM	5353,0	1010	30	01	G?		USB			fishermen – English dialect – UK or Ireland ?
DK2OM	5356,0	1930	12	01	RUS		FMOP		44k	Russian coastal radar "Sunflower" – 43 sps – 5356 – 5400 kHz - Makhachkala
DK2OM	5360,0 RF	---	--	01	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user !
DK2OM	5360,5	1430	18	01	RUS		F1B	50	200	Moscow - legal
DK2OM	7000,0	ady	dly	01	RUS		FMOP		145k	coastal radar Sunflower - 43 sps 6860 – 7005 kHz – NE of Vladivostok
DK2OM	7000,0	1630	03	01	CHN		FMOP		160k	Chinese OTH radar - 20 sps – 6920 – 7080 kHz
DK2OM	7000,0	1541	10	01	CHN		FMCW		160k	Chinese wideband OTH radar - 20 sps – 6896 – 7056 kHz
DK2OM	7000,0	1550	17	01	CHN		FMOP		160k	Chinese wideband OTH radar - 20 sps – 6883– 7043 kHz
DK2OM	7000,0	1420	31	01	INS		LSB			Indonesian pirates - splattering up – singing and playing music - daily
DK2OM	7000,9	0940	30	01	RUS		OFDM	35.55	2760	OFDM 60 – PSK 8B – area of Smolensk
DK2OM	7001,0	ady	vd	01	MRC		LSB			Moroccan fishery
DK2OM	7005,0	vt	dly	01	INS		LSB			Indonesian pirates
DK2OM	7015,0	vt	dly	01	INS		LSB			Indonesian pirates – male and female voices
DK2OM	7020,0	vt	vd	01	ALB		FSK8	125	1750	ALE, "CS004A" "RS004D" "CS004" - daily
DK2OM	7030,0	0815	10	01	F		USB			French fishery
DK2OM	7031,0 RF	0915	16	01	RUS		unid			pulsing carrier and spurious – 7032.170 - Sevastopol
DK2OM	7039,3	---	--	01	RUS	K	A1A			Cluster beacon "K" Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC" - daily
DK2OM	7039,4	2029	13	01	RUS	M	A1A			Cluster beacon „M“ – Magadan RUS Navy – „RTS“ - daily
DK2OM	7042,0	vt	07	01	CHN		FSK8	125	1750	ALE, „183“
DK2OM	7050,0	vt	dly	01	KGZ		FSK8	125	1750	ALE, "X" "810" "820615" "810698" – Kyrgyzstan MIL
DK2OM	7051,0	0920	16	01	RUS		F1B	50	500	Moscow
DK2OM	7055,0	vt	dly	01	UKR		LSB			music and Russian voices
DK2OM	7070,0	---	--	01	GEO		FSK8	125	1750	ALE, „20001“ „10003“ „2201“ „2203“ „686“ „288“ „220“ „571“
DK2OM	7088,8	vt	vd	01	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	01	TUR		PSK8	2400	2400	Link11 - SLEW – aircraft ? west of Izmir
DK2OM	7099,0	1055	23	01	CHN		FMOP		10k	OTHR bursts – 66 sps
DK2OM	7100,0	1516	10	01	FEa		FMCW		32k	Codar like ocean surface radar

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										2.6 sps – 7100 – 7132 kHz
DK2OM	7111,0 LSB	vt	23	01	CHN		PSK4A	60	2350	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	7112,0 LSB	vt	03	01	CHN		PSK4A	60	2350	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	7120,0	---	--	01	SOM		A3E		9k	Radio Hargeisa – Somaliland
DK2OM	7137,0	vt	dly	01	TWN		FSK8 LSB	125	1750	ALE, MIL-188-141A, “FBABA” “FWKMB” “FXIBY” “FCPSL” “FHKHD” “FVIKE” “FHVWY” “FCUGP” “FDRRK” “FWIML” ”FBQCY” Taiwanese navy
DK2OM	7140,0	1827	dly	01	ERI		A3E		9k	7140.024 kHz - Radio Eritrea
DK2OM	7163,0	vt	08	01	FEa		FMOP		32	Codar like ocean surface radar 2.6 sps – 7163 – 7195 kHz
DK2OM	7165,0	1052	23	01	CHN		FMOP		10k	OTHR bursts – 83 sps
DK2OM	7180,0	1526	dly	01	ERI		A3E		9k	7180.022 kHz - Radio Eritrea
DK2OM	7191,8	1100	13	01			A1A			7191.845 kHz - unid beacon, unclean, only transmitting number „4“
DK2OM	7193,0	0830	04	01	RUS	RDL	F1B	50	200	CIS36-50 - Kaliningrad
DK2OM	7197,0	vt	dly	01	TUR		FSK8	125	1750	ALE, „353013“ „334018“ „314013“ - Turkish Sivil Avunma – Turkish Civil Defense
DK2OM	7200,0	---	--	01	MMR		A3E		9k	Myanmar Radio
DK2OM	10100,8	ady	dly	01	D	DDK9	F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10121,0	0845	23	01	RUS		F1B	75	125	UfA
DK2OM	10123,0	0936	05	01	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	10130,0	1030	11	01	RUS		F1B	50	500	unclean - area of Chita – daily, all day
DK2OM	10130,0	1030	14	01			USB			French amateurs not respecting bandplans
DK2OM	10141,5	0850	26	01			F1B	600	600	DPRK-FSK 600
DK2OM	10144,0	ady	dly	01	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	13999,0 RF	0940	22	01	RUS		OFDM	33.4	2880	OFDM 60 – 13999.0 – 14002.3 kHz - Moscow
DK2OM	14000,0	vt	dly	01	FEa		USB			Far East pirates – east of Indonesia
DK2OM	14000,0	1131	21	01			FSK8	125	1750	ALE, „1“ „X“
DK2OM	14001,8	1050	15	01	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial
DK2OM	14130,0	0927	19	01	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 2.5 sec bursts
DK2OM	14192,0	vt	dly	01	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14221,0	0520	dly	01	KGZ		F1B	50	200	Bishkek – mostly idling - daily various times
DK2OM	14295,0	0925	01	01	TJK		A3E/BC		9k	3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14308,0	0856	09	01	RUS		F1B	75	500	Moscow
DK2OM	14320,0	0944	25	01	FEa		FMOP		13k	Far East OTH radar – 40 sps – 7.2 sec bursts – intro tone
DK2OM	14337,0	0921	06	01	CHN		FMCW		10k	Chinese OTH radar – 50 sps – bursts with 2.4 and 4.9 sec duration
DK2OM	14347,0	0935	19	01	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5.0 sec bursts
DK2OM	14348,5	vt	dly	01	THA	HS0ZEA	A1A			HS0ZEA beacon – 14348.488 kHz - every 5 minutes – daily - just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	18080,0	---	--	01	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18107,0	---	--	01	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18150,0	---	--	01	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	---	--	01	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21145,0	vt	dly	01	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	vd	01	RUS	RCV	A1A			RKZ – RJV de RCV - RUS Navy Sevastopol - often
DK2OM	21446,0	---	--	01	THA	HSOZEA	A1A			HSOZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	---	--	01	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day – just for info!
DK2OM	28000,0	---	--	01	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	---	--	01	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	MODE	DETAILS
IRTS	3550	0715	21	01	F	AM	Group of French HAMs ignoring the band plan. Daily.
IRTS	3590	0710	21	01	F	AM	Group of French HAMs ignoring the band plan. Daily.
IRTS	3731	1230	02	01	E or MM	USB	2 Spanish fishermen. Bad audio from both stations.
IRTS	5335	1920	02	01			Radar from 5335 to 5387 KHz. Heard many days of the month during the evening, night and early morning. The 5 MHz WARC band cannot be used under these conditions.
IRTS	5368	1735	07	01	F or MM	USB	2 French fishermen. Very loud signals. Strong motor noise from both ships. One of the sailors keeps whistling. Signal splatters down into the 5 MHz WARC allocation. This frequency is also a UK allocation. Also heard on the 16 th from 1531z onwards. Also on 24 th at 0900z. 25 th at 1745z. 28 th at 1200z. Also 30 th at 1020z.
IRTS	5363.5	0405	09	01	MRC or MM	LSB (!)	2 Moroccan fishermen chatting. Big signals. Also heard 13 th at 1915 and 14 th at 1805z. 25 th at 1815z. Also 30 th at 1830z and 31 st at 1705z. Audio always not great. Frequency is always unstable...up and down a few Hertz is the norm.
IRTS	5393	0015	21	01			Radar from 5393 to 5497 KHz on and off until early morning. Heard many times during the month.
IRTS	5400	1600	06	01	F or MM	USB	Group of French fishermen. Huge signals. Loud motor noise from all ships. Heard also on the 7 th at 1200z. 9 th at 1315z. 11 th at 1115z. 12 th at 1355z. 15 th at 1230z. 16 th at 1100z. 23 rd at 1245z. Frequency is like a telephone exchange for fishermen from F, E, MRC or POR. This frequency is an Irish/UK spot frequency in the 5 MHz band.
IRTS	5400	2000	17	01	POR or MM	USB	2 Portuguese fishermen. Strong signals. Chat is still on at 2115z.
IRTS	5400	0215	24	01	E or MM	USB	2 Spanish fishermen chatting.

SOC	kHz	UTC	DD	MM	ITU	MODE	DETAILS
IRTS	5398.5	1520	20	01	F or MM	USB	Group of French fishermen. One is called Raymond. Lots of laughter. Music being played. A continuous carrier is audible all the time. One of the TX might have been in VOX mode. The RSGB news and the after news net on from 1500z onwards became inaudible. This frequency is the main 5 MHz SSB spot frequency in the UK and EI.
IRTS	5405	1745	11	01	E or MM	USB	2 Spanish fishermen. Big signals. Ends at 1805z.
IRTS	5403.8	2100	18	01	MRC or MM	USB	Group of Moroccan fishermen. Loud.
IRTS	7050	1245	03	01	RUS/UKR	LSB	Russian-Ukrainian radio war. Heard irregularly during the month. Shouting of slogans against Putin or Poroshenko. Always big signals. Often overdriven.
IRTS	7055	1045	02	01	RUS/UKR	LSB	Russia- Ukrainian radio war. Several stations seem to be active. Strong signals. Agitprop programmes with heroic music, rebroadcasting of Russian radio programmes. Irregular transmissions. Sometimes English programmes as well. An English announcement by Ukrainians blaming the Russian Radio Amateur Society as a supporter of pirate radios was broadcast nonstop on the 8 th as of 1355z.
IRTS	7069.9	1920	13	01	MRC or MM	USB	2 Moroccan fishermen chatting
IRTS	7089.8	0815	24	01	MRC or MM	USB	Group of Moroccan fishermen. Strong signals.
IRTS	7102	1805	25	01	MRC or MM	USB	Group of Moroccan fishermen. Big signals.
IRTS	7109.5	0915	22	01			Huge digital signal. Gone by 1030z. Probably military.
IRTS	7140	1510	01	01	ERI	AM	Radio Eritrea. Weak signal. Heard on some days of the month. Seems to transmit irregular. Huge signal in the early hours of the morning when transmitting.
IRTS	7180	1515	01	01	ERI	AM	Radio Eritrea. Weak signal. Heard irregularly during the month. Very strong in the early hours of the mornings and late afternoon depending on the position of the greyline.
IRTS	7195	1220	18	01		F1B	Big signal. Probably RUS military.
IRTS	7195	1825	22	01	ERI	AM	Radio Eritrea in Arabic not transmitting on its usual frequency.
IRTS	7196	1102	22	01			Huge digital signal. Still around at 1135z. Probably military.
IRTS	10124	1525	15	01			Radar from 10124 to 10150 KHz.
IRTS	10121.7	1257	11	01	MRC or MM	USB	2 Moroccan fishermen.
IRTS	10150	0935	05	01	MRC or MM	USB	2 Moroccan fishermen
IRTS	10150	1215	18	01	MRC or MM	USB	Group of Moroccan fishermen. Very strong signals.
IRTS	14100	1145	19	01	RUS or MM	LSB	Russian- Ukrainian radio war. 2 nd harmonic of 7050 KHz. Weak distorted signal. Programme about Stephan Bandera.
IRTS	14175	1220	18	01			Radar from 14175 to 14190 KHz. Huge signals.
IRTS	14295	1130	18	01	TJK	AM	Radio Tajikistan 3 rd harmonic. Heard on some days with a weak signal.
IRTS	14338	1200	31	01			Radar from 14338 to 14356 KHz.
IRTS	18088	1210	28	01			Radar from 18088 to 18109. Huge signal.
IRTS	18162	1205	28	01			Radar from 18162 to 18164 KHz. Medium strength signal.

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	MODE	BD	SH	DETAILS
MRASZ	3507,0	1339	3	1		F1B		250	
MRASZ	3508,0	1907	21	1		USB			russian male
MRASZ	3534,0	1506	6	1		USB			numbers, russian languages, female
MRASZ	3534,0	1505	20	1		USB			female/male conversation, russian lang.
MRASZ	3539,0	1455	21	1		F1B		200	
MRASZ	3550,0	0655	12	1		A3E			unidentified
MRASZ	3550,0	0646	21	1		PSK2			AT3004D
MRASZ	3559,0	1542	6	1		PSK2			AT3004D
MRASZ	3563,0	1556	6	1		PSK2			AT3004D
MRASZ	3569,5	1603	2	1		LSB			numbers, russian languages, female
MRASZ	3572,0	1620	2	1		LSB			"AGCPOWERALCTENTEC" italian ham
MRASZ	3588,0	1814	8	1		F1A		500	5 letters
MRASZ	3600,0	1655	2	1		A3E			instable carrier, unidentified
MRASZ	3600,0	1444	12	1		LSB			russian language, no ham, "prijom"
MRASZ	3604,0	1846	6	1		PSK2			AT3004D
MRASZ	3609,0	1338	3	1		F1B		250	
MRASZ	3642,0	1718	6	1	CHN	A1A			"V DKG6 (3x) de 3A7D (2x)"
MRASZ	3657,0	1849	6	1	UZB	A1A			beacon "V", Thaskent
MRASZ	3657,0	1821	8	1	UZB	A1A			beacon "V", Thaskent
MRASZ	3674,0	1520	12	1		A1A			5 letters, CFCh FB ÜKTCD EChRLM"
MRASZ	3709,0	1706	30	1		PSK2			AT3004D
MRASZ	3732,0	1336	3	1		F1B		250	
MRASZ	3792,0	1815	4	1	RUS	F1B		200	Kaliningrad
MRASZ	3792,0	1709	11	1	RUS	F1B		200	Kaliningrad
MRASZ	3797,0	1336	3	1		F1B		250	
MRASZ	7000,0	1413	23	1		LSB			strong blaster
MRASZ	7014,0	1419	10	1		PSK2			AT3004D
MRASZ	7014,0	1652	11	1		PSK2			AT3004D
MRASZ	7038,0	1515	3	1		OTHR			6910-7075 kHz
MRASZ	7050,0	1200	1	1		LSB			russian, chaos
MRASZ	7050,0	0903	5	1		LSB			ukrainian chaos
MRASZ	7050,0	0940	17	1		LSB			chaos, scolding russians
MRASZ	7050,0	0944	19	1		LSB			chaos
MRASZ	7050,0	1437	19	1		LSB			overloaded, hum, music, chaos
MRASZ	7055,0	1202	1	1		LSB			russian, chaos
MRASZ	7055,0	0904	5	1		LSB			music
MRASZ	7055,0	0940	17	1		LSB			chaos
MRASZ	7055,0	0945	19	1		LSB			chaos
MRASZ	7055,0	1509	22	1		LSB			chaos
MRASZ	7055,0	1331	25	1		LSB			music, chaos
MRASZ	7140,0	1550	2	1	ERI	A3E			R. Eritrea
MRASZ	7140,0	1817	4	1	ERI	A3E			R. Eritrea
MRASZ	7140,0	1422	10	1	ERI	A3E			R. Eritrea
MRASZ	7140,0	1828	14	1	ERI	A3E			R. Eritrea
MRASZ	7140,0	1402	23	1	ERI	A3E			R. Eritrea
MRASZ	7179,0	1333	25	1		PSK2			AT3004D
MRASZ	7180,0	1550	2	1	ERI	A3E			R. Eritrea
MRASZ	7180,0	1422	10	1	ERI	A3E			R. Eritrea
MRASZ	7180,0	1828	14	1	ERI	A3E			R. Eritrea
MRASZ	7180,0	1403	23	1	ERI	A3E			R. Eritrea
MRASZ	7193,0	1325	19	1		F1B		200	
MRASZ	7193,0	1207	20	1		F1B		200	
MRASZ	10103,0	1408	23	1		PSK2			AT3004D
MRASZ	10123,0	0907	5	1		PSK2			AT3004D
MRASZ	10130,0	0938	17	1		F1B		500	

OEVSU – Austria – OE3GSA (Gerd)**PZK – Poland – SP9BRP (Jan)**

REF – France – F5MIU (Francis)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Sh /Bw	DETAILS
R.E.F.									January 2019
F5MIU	3755	1750	21	01			usb	5kHz	8 subcarrier pulsing every second
F5MIU	3755	1740	22	01			usb	5kHz	8 subcarrier pulsing every second
F5MIU	10127	1744	21	01			usb		Arabic language S3
F5MIU	14230	900	28	01			fmcw	10kHz	OTH Radar pulsed 20ms,S8 jumping over +/-50kHz on band
F5MIU	14250	0840	29	01			fmcw	10kHz	OTH Radar pulsed 20ms,S5-8 jumping over +/-50kHz on band

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	18.30	10	01	E		J3E-U			Spanish fishery
REP	3520	18.55	17	01	F		J3E-U			French fishery
REP	3550	10.17	21	01	POR		J3E-U			Portuguese fishery
REP	3552	18.50	06	01			PSK-4			Stanag 4285 NATO 600/Long, FYI shared band
REP	3731	22.00	05	01	UKR		J3E-L			War Propaganda, recorded message in English lang.
REP	3731,5	21.49	05	01	E		J3E-U			Spanish fishery, Galicia province
REP	3752	18.31	06	01			PSK-2			Link-11 CLEW, NATO, FYI shared band
REP	3770	07.13	07	01	POR		J3E-U			Fishery
REP	5353	09.45	29	01	IRL		J3E-U			Irish fishery
REP	5363,75	18.08	26	01			J3E-L			Unid language fishery, engine noise
REP	6999 ...	19.50	16	01	B		J3E-U			Brazilian intruders, phone patches, daily
REP	7000	19.50	18	01	B		J3E-U			Brazilian fishery, daily
REP	7004	10.02	31	01	MRC		J3E-U			Arabic/French language fishery, Morocco
REP	7010	09.33	08	01	RUS		PSK2	120	3k	AT3004D Modem, encrypted comms
REP	7010	08.08	18	01		920001, 920009	J3E-U MFSK			Arabic language voice comms and ALE/Clover 2000 links, daily, all day.
REP	7011	11.35	09	01	MRC		J3E-U			Arabic/French language fishery, Morocco
REP	7012	18.25	10	01	RUS		PSK-2			CIS-12 12x120bd 3,3k tone, idling
REP	7020	16.56	20	01	B		J3E-U			Brazilian fishery, daily
REP	7040	18.22	22	01	CHN		FMOP		100k	Wideband OTH, China
REP	7043	19.07	07	01	MLI	105008, 105007, 105001	MFSK-8			Mil Std 188-141A Ale United nations MINUSMA mission in Mali
REP	7045	10.30	16	01		2001	MFSK-8			Mil Std188-141A 2xxx net, unid location and user, daily, all day
REP	7070	19.33	16	01	GEO	524, 244	MFSK-8			Mil Std 188-141A Ale net purportedly Georgian Border Guards
REP	7090	09.27	20	01			J3E-U			North african fishery, arabic language
REP	7100	18.11	29	01	B		J3E-U			Unid Brazilian intruders
REP	7140	18.33	11	01	ETH		A3EBC			Radio of the Broad Masses of Eritreia, Ethiopia, illegal broadcasting
REP	7160	20.00	28	01			PSK			Nato vessel operations
REP	7195	13.44	29	01	TUR	30713	MFSK8	125	3k	Mil Turkish Civil Defence
REP	10101	16.24	11	01			J3E-U			Arabic language north African

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
										fishry
REP	10120	12.46	26	01	MRC		J3E-U			Moroccan fishery
REP	10121	16.28	11	01			J3E-U			Arabic language north African fishry
REP	10125	18.05	04	01	E		J3E-U			Fishery
REP	10127	11.00	20	01	MRC		J3E-U			Moroccan fishery
REP	10127,8	16.31	11	01			J3E-U			Asian dialect fishery
REP	10130	10.20	14	01	F		J3E-U			French amateurs ignoring IARU Bandplan
REP	14025	08.00	04	01	CHN		FMOP	20	10	OTH radar burst
REP	14195	09.05	04	01	RUS		FSK	50	200	CIS 36-50 Russian Federation mil encrypted
REP	14200	17.02	04	01	RUS		FSK	50	200	Navy
REP	21005	13.20	04	01	MRC		J3E-U			Fishery
REP	21210	13.30	04	01	E		J3E-U			Fishery
REP	28100	17.55	01	01	E		J3E-U			Spanish CB
REP	28725	11.08	10	01	RUS		F3E			Taxis dispatchers

RSGB – United Kingdom – G4DYA (Richard)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/BW	DETAILS
RSGB	3744.0	1018	13	01			A3E			BC audio clips
RSGB	7038.5	ady	dly	01	CZE	OK0EU	A1A			For info: QRP propagation beacon
RSGB	7140.02	vt	vd	01	ERI	VoBM1	A3E			BC
RSGB	7179.0	1505	27	01			J7D		2K70E	USB 7177.0 / CIS-12
RSGB	7180.02	vt	vd	01	ERI	VoBM2	A3E			BC
RSGB	7193.0	vt	vd	01	RUS	RDL	F1B			Kaliningrad
RSGB	10100.8	ady	dly	01	D	DDK9	F1B	50	450	For info: Primary user: WX broadcast
RSGB	14001.8	1525	30	01			G1D		2K40E	USB 14000.0 / Stanag 4285
RSGB	14308.0	1111	25	01	RUS		F1B	75	500	RR 5.152

RSK – Kenya – 5Z4BV (Kamweti)

Soc	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
RSK	7004	1040	26	1	Kenya/ E. Africa?	?	J3E-u	Kiswahili/vernacular msg net
RSK	7040	1220	31	1	E. Africa?	?	J3E-u	Kiswahili QSO
RSK	7045	1315	28	1	E. Africa?	?	J3E-u	Kiswahili/vernacular msg net
RSK	7089,1	v.t.	nr.dly.	1	Central Africa?	?	J3E-u	French/vernacular msg net
RSK	7100	v.t.	26	1	Central/E. Africa?	?	J3E-l	vernacular msg net
RSK	7120	1253	26	1	S. Sudan/E. Africa?	?	J3E-u	Kiswahili/vernacular msg net
RSK	7140	v.t.	dly	1	Eritrea	VOB	A3E	Commecial broadcast - Voice of the Broad Masses of Eritrea 1
RSK	7180	v.t.	dly	1	Eritrea	VOB	A3E	Commecial 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	6999.0	1410	16	1	RUS	UiMUX	PSK2	120	2600	
SRAL	7000.0	1000-1000/	10	1		UiCarr	N0N			50 Hz brum
SRAL	7008.0	0630-1030	9 28	1	RUS	UiPTR	F1B/N0N		250	
SRAL	7010.0	0730-	9	1	RUS	UiMUX	PSK2	120	2600	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		0825/								
SRAL	7012.0	1330-1340/	16	1	RUS	UiPTR	F1B		250	
SRAL	7013.0	-0800/	22	1	RUS	UiMUX	PSK2	120	2600	Off with usb Russ. Vox 7011.0
SRAL	7014.0	1335-1945	10 11	1	RUS	UiMUX	PSK2	120	2600	
SRAL	7025.0	/1140-1200	21	1	RUS	UiMUX	PSK2	120	2600	
SRAL	7030.0	0630-1100	*	1	RUS	UiPTR	F1B		250	Days: 4. 9. 28.
SRAL	7044.0	1030-1200	10	1		UiPTR	F1B		500	
SRAL	7066.0	0830-0853/	21	1		UiPTR	F1B		250	
SRAL	7066.0	1020-1030/	30	1		UiCarr	N0N			
SRAL	7081.0	1010-1023/	23	1		UiPTR	F1B		250	
SRAL	7083.0	0845-0900	23	1		UiMUX	PSK2	120	2600	
SRAL	7112.0	1600-1735/	18	1	RUS	UiMUX	PSK2	120	2600	
SRAL	7113.0	1200-1215	9	1	RUS	UiMUX	PSK2	120	2600	
SRAL	7120.0			1	SOM	R Hargeisa	A3A			Not heard
SRAL	7122.0	0700-0815/	9	1	RUS	UiPTR	F1B		250	
SRAL	7127.0	0850-1100	9 30	1	RUS	UiPTR	F1B/ N0N		250	
SRAL	7129.0	0850-1100	23	1		UiMUX	PSK2	120	2600	
SRAL	7133.88	1205	6	1		UiCarr	N0N			
SRAL	7135.0	1200	17	1		UiOTHR	FMCW			67Hz/12kHz, 10s on 50s off
SRAL	7140,0	0600-0710	dly	1	ERI	VoBME	A3E			
SRAL	7140,0	1400-1835/	dly	1	ERI	VoBME	A3E			
SRAL	7142.0	1200-1330	16 17	1		UiPTR	F1B		250	
SRAL	7144.0	1000-1200/	9	1		UiMUX	PSK2	120	2600	
SRAL	7158.0	0720-1210	6	1		ZH7F	A1A			5BL
SRAL	7160.0	0630-0845	22 23	1	RUS	RBL88	A1A			5BL
SRAL	7164.0	1345-1405/	24	1	RUS	UiMUX	PSK2	120	2600	
SRAL	7167.0	0900-0945	28	1	RUS	UiPTR	F1B		250	
SRAL	7168.0	1045-1055/	31	1		UiCarr	N0N			
SRAL	7176.0	0900-0930	1	1		UiPTR	F1B		500	
SRAL	7176.0	1345-1415	10	1		UiPTR	F1B		250	
SRAL	7178.5	1325	16	1		OECK	A1A			
SRAL	7179.0	1400-1515	25	1	UKR	UiMUX	PSK2	120	2600	
SRAL	7180.0	0600-0715	dly	1	ERI	VoBME	A3E			
SRAL	7180.0	1400-1835/	dly	1	ERI	VoBME	A3E			
SRAL	7181.9	1000-	4	1		UiCarr	N0N			

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1330/								
SRAL	7186.0	0900-1000	14	1		UiPTR	F1B		500	
SRAL	7193.0	0750-1500/	*	1	RUS	RDL	F1B/N0N		200	Days: 3. 4. 8. 9. 13. 14. 18. 19. 20.
SRAL	7195.25	'0925	28	1		UiPTR	F1B		250	
SRAL	10 MHz	0530-0725/	3 4	1	CYP	UiOTHR	FMCW			25/50Hz, 20 kHz (WebSDR 20d)
SRAL	10 MHz			1	CHN	UiOTHR	FMCW			40kHz (WebSDR 0d)
SRAL	14 MHz			1	CHN	UiOTHR	FMCW			40kHz/12.5Hz
SRAL	14 MHz	1210-1245	9 31	1	RUS	Kontainer	FMCW			20kHz/50Hz (WebSDR 2d)
SRAL	14221.0			1	KGZ	UiPTR	F1B		200	
SRAL	14295.0	0600-1230	dly	1	TJK	R Tojikiston	A3E			3f, chirpy carrier
SRAL	18 MHz	0600-1215	*	1	CYP	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 7. 9. 23. 28. (WebSDR 13d)
SRAL	18 MHz			1	RUS	Kontainer	FMCW			20kHz/50Hz (WebSDR 0d)
SRAL	21 MHz			1	CYP	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 3d)
SRAL	21438.0	1045	8		RUS	RCV	A1A			
SRAL	24 MHz			1		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28 MHz			1	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz.
SRAL	28860.0			1	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz.
SRAL	28 MHz			1		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 0d)
SRAL	28 MHz			1	RUS	Taxi disp.	F3E			0 reports

URE – Spain – EA6AMM (Gaspar)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
URE	5350	16:40	5	1	RUS		FMOP		50K	Coastal Radar 43 sps Makhachkala
URE	5352.91	16:40	5							Continuous carrier
URE	7000	16:14	3	1	CHN		FMOP		160k	Chinese wideband OTH Radar from 7000 (6920) to 7080 kHz. 20 sweeps/s
URE	7008.8	08:22	9	1			PSK2A	120	2600	AT3004-D
URE	7086	08:35	11	1			FMOP		10K	OTH Radar from 7081 to 7091
URE	7014	18:41	10	1			PSK2A	120	2600	AT3004-D
URE	7053.7	08:15	7	1			PSK2A	120	2600	AT3004-D
URE	7055	VT	VD	1	RUS/UKR					Music, speech, agitprop
URE	7140	VT	VD	1	ERI		A3E			Eritrea's Voice of the Broad Masses 1
URE	7180	VT	VD	1	ERI		A3E			Eritrea's Voice of the Broad Masses 2
URE	10114.8	VT	VD	1	RUS		F1B	100	1000	CIS14. Moscow
URE	10121	09:10	23	1			F1B		125	
URE	10122	09:37	23	1			J3E-U			Unid people talking. Spanish language.
URE	10122.8	09:20	24	1			PSK2A	120	2600	AT3004-D
URE	10124.8	09:50	31	1	RUS		PSK2A	120	2600	AT3004-D. TDoA: Penza, RUS.
URE	10125	10:23	1	1					20k	OTH Radar from 10115 to 10135 kHz
URE	10130	VT	VD	1	RUS		F1B	50	500	Unclean - area of Chita
URE	10130	08:38	9	1			FMOP		20k	OTH Radar from 10120 to 10140 kHz
URE	14000.5	12:22	5	1			J3E-U			Unid people talking. Spanish language
URE	14045	09:20	1	1					10k	OTH Radar from 14040 to 14050 kHz
URE	14057	08:57	22	1			FMOP		10k	OTH Radar from 14052 to 14062 kHz
URE	14116	09:45	24	1			FMOP		10k	OTH Radar from 14111 to 14121 kHz
URE	14137	09:45	24	1			FMOP		10k	OTH Radar from 14132 to 14142 kHz
URE	14231	08:40	28	1			FMOP		10k	OTH Radar from 14226 to 14236 kHz "Associated" burst (?): 14200 center QRG (10k) and 14248 center QRG, 10 kHz
URE	14231	09:13	29	1			FMOP		10k	OTH Radar from 14226 to 14236 kHz, "associated bursts" (?): 14225 center QRG

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
										(10 kHz) and 14244 center QRG, 10 kHz
URE	14250	09:41	21	1			FMOP		10k	OTH Radar from 14245 to 14255 kHz. Also copied on 22 Jan 09:00 UTC
URE	14257	08:50	25	1			FMOP		10k	OTH Radar from 14252 to 14262 kHz
URE	14308	08:38	25	1	RUS		F1B	75	500	Moscow
URE	14325	08:37	25	1			FMOP		10k	OTH Radar from 14320 to 14330 kHz
URE	14327	08:53	27	1			FMOP		10k	OTH Radar from 14322 to 14332 kHz
URE	14256	08:55	31	1			FMOP		10k	OTH Radar from 14251 to 14261 kHz
URE	14338	09:08	25	1			FMOP		10k	OTH Radar from 14333 to 14343 kHz. QSY to 14345 center at 09:15
URE	14292	08:23	15	1			FMOP		10k	OTH Radar from 14287 to 14297 kHz
URE	18068	09:34	4	1					20k	OTH Radar from 18068 (18050) to 18070 kHz
URE	18080	10:59	4	1					20k	OTH Radar from 18068 (18060) to 18080 kHz

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m band informational only! - Amateur co-primary, shared with other also primary allocated services!										
USKA	3527.0	2345 2211	10 28	01			F1B	50	200	almost daily
USKA	3532.0 VFO LSB	2347	10	01			DQPSK	14x75	2k7	LINK 11 ESB Mode
USKA	3532.0	2239	24	01			DQPSK	14x75	~6k1	LINK 11 ISB Mode
USKA	3549.0 VFO USB	2351 2340	10 29	01			G1D PSK8	2400	2k7	MIL 188-110A (D2) mod (Hybrid) preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3550.0	1638 2208	18 28	01			J7D	12x120	2k7	BPSK; CIS12 often
USKA	3553.8	2350 2245	10 24	01			G1D PSK8	2400	2k4	STANAG 4285 almost daily
USKA	3610.0	1641	18	01			B7D DQPSK	14x75	~6k1	LINK 11 CLEW; DSB Mode
USKA	3741.5	1720	28	01			OFDM5 1	37.5	~ 2k5	QAM16 mod; tone spacing 46.92Hz; Pilot tone
USKA	3784.0	2325	29	01			J7D	12x120	2k7	BPSK; CIS12
USKA	6999.8	1812	13	01			G1D PSK8	2400	2k7	MIL 188-141B often partially in 40m band
USKA	7000.0	1803	13	01			J3E-U		2k1	English patois
USKA	7003.5	1610	29	01	ALG		304HF1 B	200	100	Pactor 1; encrypted connect often
USKA	7014.0	2343	10	01			J7D	12x120	2k7	BPSK; CIS12
USKA	7032.0	22	28	01			FMCW	41 sps	10k	OTHR; Bursts, BD 6s, BRI 60s
USKA	7055.0	1438	30	01			J3E-L			Music and Voice often
USKA	7070.0	1657	29	01		220	MFSK8	125	1750	ALE, MIL 188-141A often
USKA	7081.0	0949	23	01			F1B	75	250	
USKA	7108.0	0954	23	01			OFDM	30	appx 2k9	tone spacing appx 44.4 Hz pilotone at appx 3300Hz
USKA	7112.0	1624	18	01			J7D	12x120	2k7	BPSK; CIS12 often
USKA	7127.0	0907	30	01			F1B	75	250	
USKA	7129.0	1013	23	01			J7D	12x120	2k7	BPSK; CIS12
USKA	7134.0	2250	29	01			MFSK8	125	1750	ALE, MIL 188-141A
USKA	7140.0	1610		01	ERI	VOBM	A3E		~ 9k	BC almost daily
USKA	7141.0	2254	29	01			FMCW	50 sps	10k	OTHR; Bursts, BD 3s; BRI appx 45s
USKA	7164.0	1416	24	01			J7D	12x120	2k7	idling, 13 carriers only
USKA	7193.0	1015 1017	14 14	01 01	RUS	RDL	F1B F1B	36 50	200	CIS 36-50 almost daily

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7197.0	1929	14	01	TUR	334013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	1944	14	01	TUR	378013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2041	14	01	TUR	306018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2049	14	01	TUR	368018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2058	14	01	TUR	316013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2059	14	01	TUR	345013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2107	14	01	TUR	337013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2144	14	01	TUR	354013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	10130.0	1001	23	01			F1B	50	500	heavy! often
USKA	14001.8	1441	30	01			G1D PSK8	2400	2k4	STANAG 4285
USKA	14153.0	0938	26	01	RUS		FMOP	50 sps	10k	OTHR; Bursts; BD 10s; BRI 35s
USKA	14171.0	0853	30	01			J7D	12x120	2k7	BPSK; CIS12
USKA	14241.0	0943	26	01	RUS		FMOP	50 sps	10k	OTHR; Bursts; BD 10s; BRI 35s
USKA	14260.0	0849	30	01			FMOP	50 sps	10k	OTHR long lasting
USKA	14265.0	0932	26	01			FMOP	10 sps	160k	OTHR
USKA	14280.0	1010	02	01			AM			Number station (reported by HB9CNY)
USKA	14292.0	0922	25	01			F1B	75	500	
USKA	14293.0	0900	30	01			FMOP	66.66	10k	
USKA	14295.0	1301	30	01	TJK		A3E		~9k	Radio Tajik (3 rd of 4765 kHz) often
USKA	14308.0	0917	25	01			F1B	75	500	
USKA	14322.0	0946	25	01			FMCW	41 sps	~10k	OTHR; Bursts BD appx 6s
USKA	14339.0	0954	25	01			FMCW	41 sps	~10k	OTHR; Bursts BD appx 6s

Veron – Netherlands – PG1R (Ruud)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3501,0	1620	23	01		UiPTR	FiB		Idling
VERON	3527,0	2059	10	01		UiPTR	F1B		Revs also 15/1 21.10 UTC
VERON	3548,0	1900	05	01	CIS	UiPTR	F1B		Revs/Ptr
VERON	3562,0	1904	21	01	CIS	EGZM	A1A		Calls to IBMV OI9Z ZH1B
VERON	3568,0	1638	10	01		UiPTR	F1B		Fast Revs/Ptr also 31/1 18.42 UTC
VERON	3588,0	1810	16	01		UiPTR	F1B		Ptr
VERON	3606,0	1910	27	01		UiPTR	F1B		Revs
VERON	3608,0	1638	08	01		UiPTR	F1B		Revs/Ptr also 17/1 29/1 18.17 UTC
VERON	3617,0	1811	16	01	CIS	UiCW	A1A		5BL
VERON	3624,0	1551	23	01	CIS	WNMV	A1A		XXX WNMV 62362 DUchEWNOSTX 6849 7310
VERON	3631,0	2050	12	01		UiPTR	F1B		Idling
VERON	3656,8	1912	27	01	RUS	V	A1A		V-beacon
VERON	3759,0	1915	19	01		UiMux	PSK8	2k4	Stanaglike modem
VERON	3784,0	1819	24	01	CIS	UiCW	A1A		5BL
VERON	3784,0	1822	24	01	CIS	4ROI	A1A		4ROI 568 25 24 2118 568 = ZWJ 205 = 37997 5F
VERON	3792,0	2116	15	01		UiPTR	F1B		Ptr
VERON	3797,0	1828	16	01		UiPTR	F1B		Ptr
VERON	3798,0	2111	22	01	CIS	O9P1	A1A		O9P1 R 344 QRV K
VERON	7055,0	1335	26	01	RUS/ UKR		J3E-L		Chaos; 2 TX; music&speech; S5
VERON	7140,0	1817	19	01	ERI	R.Eritrea	A3E		E.Afr. Music; S5
VERON	7180,0	1815	19	01	ERI	R.Eritrea	A3E		E.Afr. Music; S6
VERON	7193,0	1025	14	01	CIS	UiPTR	F1B		Revs/Ptr
VERON	7193,0	1018	20	01	RUS	UiPtr	F1B	200	Printer; S5
VERON	10119,0	1352	13	01		UiRadar	FMCW	20k	OTHR; 50sps; Cyprus ? Sri no DF
VERON	10130,0	1020	23	01		UiPTR	F1B		Revs also 29/1 10.31 UTC
VERON	14308,0	1111	25	01	RUS	UiPtr	F1B		

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

German BNetzA Konstanz

All our friends and contributors worldwide!

Many thanks for your interest!

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