



Monitoring System

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The monthly newsletter for Region 1

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The 29 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: G0MGX - Mark ++ SARL: ZS6NS - James ++ SRAL: OH2BLU - Pekka ++ SSA – Ullmar ++ UBA: ON8IM – Ivan ++ URE: EB1TR - Fabian ++ USKA: HB9CET - Peter ++ VERON: PA2GRU - Dick ++ ZRS: S56ZDB – Darko ++ G3VZV – Graham (satellite) ++ TG9ADV – Jorge (Co-ordinator Region 2) ++ YB3PET – Titon (Co-ordinator Region 3) ++ DF8FE – (Webmaster assis.) ++ DL8AAM (ALE) ++ DJ7KG (BUOYS) ++ DF5SX (BC) ++ DARC (server support) ++ OD5TE (Hani) ++ VE6SH – Tim (IARU President) ++ 9K2RR – Faisal (EC-IARU-R1 ++ unofficial member: ++ ASTRA - DL1BDF - Mustapha ++ PTTs: BAKOM (Swiss) ++ OFCOM (UK) ++ Dutch AT ++ Austrian PTT

Part 1: News and Infos

1. PA2GRU – farewell and many thanks



PA2GRU (Dick van Empelen) has been the national IARUMS Coordinator of Veron from 2002 - 2017. During this period Dick was very active and sent us many excellent reports. Many thanks dear Dick for your great assistance! Dick will step down from his Coordinator job on Dec. 31th. We all wish him and his family good health, and we hope to hear from him from time to time.

2. PG1R – successor of PA2GRU



The successor of PA2GRU is **PG1R** (Ruud Ivens). Ruud will take over the Coordinator job from Dick on January 1st 2018. Dear Ruud, you are welcomed to our IARU Monitoring System in Region 1.

3. Bad conditions on the upper bands

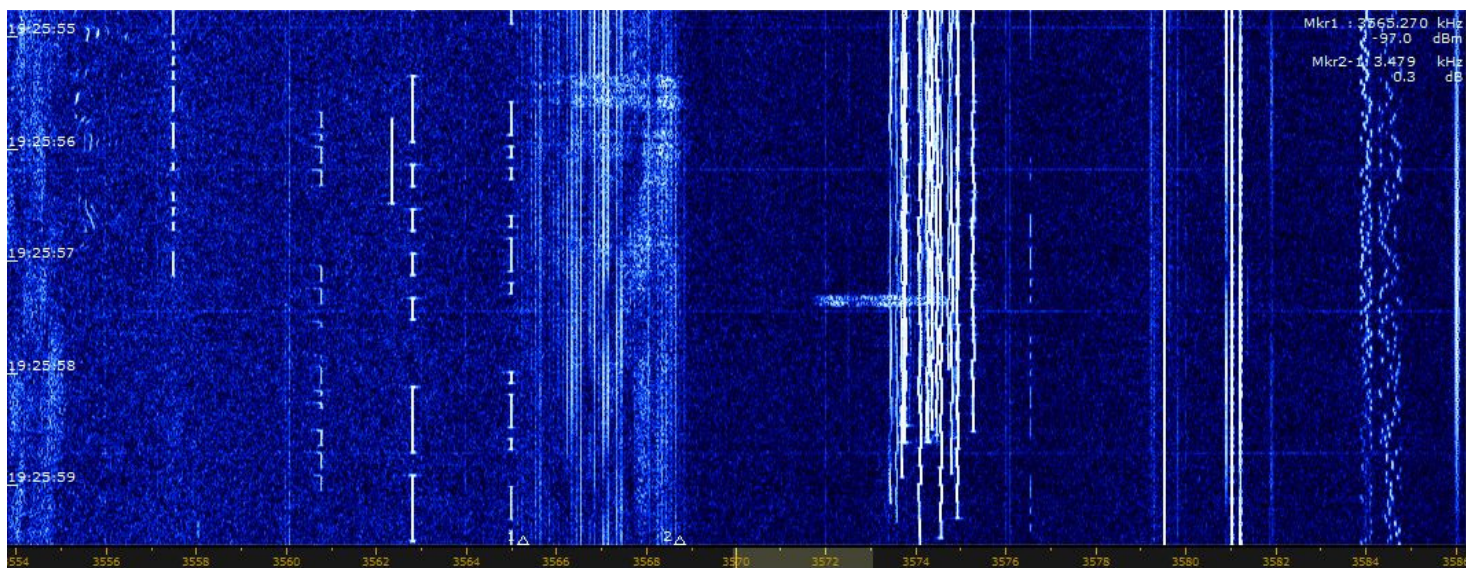
The conditions on 18, 21, 24 and 28 MHz were rather poor. So we could only find some strong intruders. On 14 MHz we observed our old and well known clients. Please read our detailed tables!

4. Spanish fishery – worse as ever before

Spanish fishermen tried to occupy our bands daily. We found them on 1925.0 kHz on USB disturbing the legal Livorno coastal radio. They were also active on 1980, 3500, 3535, 3550, 3555, 3560 and 3590 kHz on USB every evening. They also tried to occupy our new narrow 5 MHz-band. We found them on 5350 kHz USB splattering up and on 5353 kHz USB disturbing the CW-range. This QRG was also abused for their voice scrambler CRY 2001. Please observe: There is no maritime traffic assigned to this band!

5. Unidentified signal on 3565 kHz

I found an unidentified signal on 3565 kHz covering about 3.5 kHz. No further idea at the moment. Please observe the white markers. Date and time: November 20th at 1925 UTC.



6. Good news from Region 2



LU1BCE (Carlos Beviglia) will take over the IARUMS Region 2 Coordinator job from TG9ADV (Jorge) on January 1st 2018.

The Region 2 Monitoring System has been offline for a long time. So we are glad that Carlos will do this job now. Dear Carlos, you are welcomed to our worldwide Monitoring Systems in the Regions 1, 2 and 3. HB9CET and DK2OM will try to help you on your first steps as well as possible. Best wishes to TG9ADV (Jorge) and his family!

7. Miscellaneous or bad news:

- 3560.0 kHz – USB – Spanish fishermen daily at 1600 utc or later
- 7120.0 kHz – Radio Hargaysa Somalia – as usual
- 7140.0 kHz and 7180 kHz – Radio Eritrea and white noise QRM by Radio Ethiopia
- 14295.0 kHz - Radio Tajik (harmonic from 4765 kHz) – no change
- 18080.0 kHz – Sound of Hope – Taiwan – no change
- 21438.0 kHz – Russian Navy Sevastopol on A1A - as usual
- 28960.0 kHz – Radar Iran on FMOP burst mode - daily

8. Homepage IARU Region 1

Homepage IARUMS Region 1 <http://www.iarums-r1.org>

Homepage IARUMS Region 2 <http://www.iaru-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)
FMP = frequency modulation on pulse (OTH radars) *** 5BL = cyrillic 5 lettergroups

ARSK – Kenya – 5Z4BV (Kamweti)

Soc	kHz	UTC	dd	mm	ITU	Identity	Mode	Bd	Details
RSK	6.999,00	vt	15	11	E. Africa	?	J3E-u		Swahili mil message net
RSK	7.017,00	0520	15	11	E. Africa	?	J3E-l		Mil vernacular msg net E. Africa
RSK	7.020,00	0535	15	11	eastern Africa	?	J3E-u		Vernacular net
RSK	7.024,00	0520	15	11	E. Africa	?	J3E-l		Vernacular mil
RSK	7.035,00	0515	8	11	Ethiopia?	?	J3E-u		Amharic
RSK	7.063,00	0440	20	11	E. Africa	?	J3E-u		Sino language QSO
RSK	7.066,00	a.m.	occasional	11	eastern Africa	?	J3E-l		Swahili-English mil with vernacular
RSK	7.075,00	0600	nearly	11	Ethiopia-Kenya	?	J3E		Amharic mil data & weather relay net
RSK	7.089,00	a.m.	16	11	East-Central Africa	?	J3E-u		Swahili msg net
RSK	7.095,00	0540	15	11	E. Africa	?	J3E-l		vernacular
RSK	7.120,00	vt	dly	11	Rep.of Somalia	Hargeisha	A3E		Broadcast
RSK	7.140,00	vt	nearly	11	Radio Eritrea	?	A3E		Broadcast
RSK	7.140,00	p.m.	nearly	11	Ethiopia?	?	A3E		Jammer
RSK	7.146,00	0545	15	11	E. Africa	?	J3E-l		vernacular
RSK	7.180,00	vt	nearly	11	Radio Eritrea	?	A3E		Broadcast, occasional QSY 7181.5kHz
RSK	7.180,00	p.m.	nearly	11	Ethiopia?	?	A3E		Jammer
RSK	7.189,00	vt	nearly	11	Kenya	?	PSK	2k4	STANAG 4538 (3G ALE)

DARC 1 – Germany – DG0JBJ (Mario) – OTH radar intrusions

DG0JBJ (Mario) observed 0 OTH radars on 40 m, 1 OTH radar on 20 m, 60 OTH radars on 17m, 56 OTH radars on 15 m and 11 OTH radars on 10 m in November 2017.

DARC 2 – Germany - DK2OM (Wolf)

FSK transmissions -> center frequency between mark and space

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

exclusive bands -> black – shared bands -> blue - voice traffic -> green - BC -> red

SH = shift - SP = spread (radar) – SPS = sweeps/sec (radar)-> (aka PRF)

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1,8 – 50 MHz	vt	dly	11	D		QRM			1.8 - 50 MHz intentionally disturbed by a neighbouring LED lamp – daily - various times
DK2OM	1810,5	2140	01	11	ROU	YRITOP	A1A			beacon – YRITOP – loc KN04RU – Romania - just for info!
DK2OM	1812,0	ady	dly	11	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	1950	12	11	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	1954	14	11	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1876,0	1954	14	11	I	IQN	USB			Lampedusa Radio, weather reports - daily
DK2OM	1888,0	1954	14	11	I	IPD	USB			Civitavecchia Radio, weather reports - daily
DK2OM	1896,5	ady	dly	11	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	1955	14	11	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	1925,0	1827	20	11	E		USB			Spanish fishery – disturbing Livorno Radio
DK2OM	3503,5	vt	dly	11	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3525,0	1520	03	11	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2023	02	11	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	---	--	11	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	---	--	11	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	1750	28	11	E		USB			Spanish fishery
DK2OM	3550,0	0730	dly	11	F		A3E			French amateurs not respecting bandplans - daily
DK2OM	3550,0	vt	vd	11	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,7	vt	vd	11	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation!
DK2OM	3553,8	ady	dly	11	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3555,0	2015	19	11	E		USB			Spanish fishery – also 26.11.2017 at 1935 utc disturbing the contest
DK2OM	3560,0	1600	dly	11	E		USB			Spanish fishery – daily 1600 utc or later
DK2OM	3568,0	1802	28	11			F1B	75	166	
DK2OM	3576,6	ady	dly	11	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3585,0	ady	dly	11	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576, - daily, all day - legal!
DK2OM	3587,0	vt	vd	11	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3593,7	---	--	11	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	---	--	11	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	11	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	11	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3594,2	---	--	11	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	11	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	vt	dly	11	J		FSK8	125	1750	ALE, “JH1ESB” – just for info!
DK2OM	3617,0	vt	dly	11	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	11	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3642,0	ady	dly	11	CHN		A1A			loop – DKG6 de 3A7D

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										Chinese military – daily, all day
DK2OM	3649,0	vt	vd	11	ALG	no ITU	FSK8	125	1750	ALE, “BI20” PA20”
DK2OM	3718,0	vt	vd	11	FEa	7CJK	A1A			loop “7CJK”
DK2OM	3756,0	2000	dly	11	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	11	FEa	RIS9	A1A			“M8JF de RIS9” - loop
DK2OM	3772,0	ady	dly	11	FEa	A4JC	A1A			“A4JC” - loop
DK2OM	3777,0	vt	dly	11	FEa		A1A			“M8JF de RIS9” – loop – dly
DK2OM	3791,0	vt	vd	11	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – daily - just for info!
DK2OM	3797,0	ady	dly	11	FEa		A1A			“M8JF de RIS9” – loop
DK2OM	5350,0	1650	02 and dly	11	E		USB			Spanish fishery – splattering up - daily at 1600 utc or earlier – engine noise in the background – illegal voice traffic!
DK2OM	5352,0	2100	11	11			PSK2A	120	2600	AT3004D -
DK2OM	5353,0	2014	25	11	E		USB			Spanish fishery
DK2OM	5361,8 RF	---	--	11	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user ! – also 22.09.2017 at 1720 utc
DK2OM	6998,5	--	--	11	POL		FSK8 USB	125	1750	MIL-188-141A – “BU2” “OD6” “OL1” “SZ4” “ZE2” “MA3” until 7001.0 kHz – also voice traffic male and female - Polish MIL
DK2OM	7000,0	1847	09	11	E		USB			Spanish fishery
DK2OM	7001,0	0815	14	11	RUS		OFDM	35.5	2760	OFDM 60 – PSK4B – Moscow
DK2OM	7001,5	--	---	11	POL		PSK8	2400	2400	RF QRG 6998.5 kHz – 7000.3 kHz center - MIL-188-110A – 600 / 300 bps short – Polish MIL
DK2OM	7001,8	1645	10	11	TUR		PSK8A	2400	2400	Stanag-4285 - Istanbul
DK2OM	7010,0	vt	vd	11	ALB	no ITU	FSK8	125	1750	ALE, “RS0” - Tirana
DK2OM	7018,0	---	--	11	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7020,0	vt	vd	11	ALB		FSK8	125	1750	ALE, “CS004A” “RS004D” “CS004” - daily
DK2OM	7027,5	---	--	11	UKR	„V“	A1A			beacon “V” – Kyiv
DK2OM	7030,0	1600	29	11	RUS		F1B	75	250	Moscow
DK2OM	7039,0	---	--	11	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	7039,2	---	--	11	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	----	--	11	RUS	D	A1A			Cluster beacon D Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” - daily
DK2OM	7039,4	ady	dly	11	RUS	M	A1A			Cluster beacon M – Magadan RUS Navy – „RTS“
DK2OM	7040,0	ady	dly	11	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,5	vt	dly	11	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7049,5	vt	dly	11	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	vt	dly	11	KGZ		FSK8	125	1750	ALE, “X” “810” “820615” “810698” – Kyrgyzstan MIL
DK2OM	7070,0	vt	vd	11	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7088,8	2035	10	11	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	11	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7091,5	---	--	11	KAZ	„V“	A1A			7091.543 kHz - loop with spurious – ident “V” – Almaty - Kazakhstan
DK2OM	7099,5	vt	dly	11	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info!
DK2OM	7102,0	vt	dly	11	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	7102,0	vt	vd	11	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, “9A3MIL” “9A2KS” “HB9MHB” “9A0ZG” “9A4OS” “DK0ESD” – just for info!
DK2OM	7102,0	vt	dly	11	J		FSK8	125	1750	ALE, “JH1ESB” – just for info!
DK2OM	7110,0	vt	dly	11	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7117,0	---	--	11	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	7120,0	vt	dly	11	SOM		A3E		9k	Radio Hargaysa – Somalia – daily – even audible in Australia and Japan
DK2OM	7137,0	vt	dly	11	TWN		FSK8 LSB	125	1750	ALE, “DEGDG” “DRYHD” “DCOIY” “DSQLK” “DEIQW” “DETWY” Taiwanese navy – daily
DK2OM	7140,0	1507	06	11	ERI ETH		A3E		9k	Radio Eritrea disturbed by Radio Ethiopia by white noise emissions - daily
DK2OM	7144,0	1120	14	11	RUS		PSK2A	120	2600	AT3004D - Kazan
DK2OM	7151,0	1942	01	11	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7151 – 7183 kHz
DK2OM	7172,0	1436	20	11	RUS		PSK2A	120	2600	AT3004D – modem idle - Penza
DK2OM	7180,0	1507	06	11	ERI ETH		A3E		9k	Radio Eritrea disturbed by Radio Ethiopia by white noise emissions - daily
DK2OM	7183,0	vt	dly	11	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7185,5	vt	dly	11	J TWN		FSK8	125	1750	ALE, “BV4AS” “JH1ESB” - just for info - daily
DK2OM	7198,0	1012	16	11	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	10100,8	ady	dly	11	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	11	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10112,0	---	--	11	I		PSK8A	2400	2400	Stanag-4285 – 600 bps long – area of Rome - daily
DK2OM	10113,0	vt	vd	11	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0640	dly	11	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	11	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “203” “XXZ” – Western Sahara
DK2OM	10116,5	---	--	11	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African Navy
DK2OM	10120,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10123,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” “CM2” “ESA” – Algerian Airforce
DK2OM	10124,0	1757	09	11	AUS		FMOP		10k	Australian OTH radar JORN – introtone – burstmode – 6 sps
DK2OM	10129,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10136,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10144,0	ady	dly	11	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,5	vt	dly	11		JH1ESB	FSK8	125	1750	ALE, “JH1ESB” - just for info - daily
DK2OM	10145,5	vt	dly	11	TWN AUS	BV4AS	FSK8	125	1750	ALE, “BV4AS” “VK4SAA” – just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14000,0	1500	dly	11	FEa		USB			Far East male persons - daily
DK2OM	14052,0	0835	28	11	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14053,0	1516	09	11	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14100,0	vt	dly	11	ALG	no ITU	FSK8	125	1750	ALE, “6206” “6204” “6212” “6202” “6203” “6207” “6217” “MTL” “IJ” – Mauritanian border – daily, all day
DK2OM	14109,0	vt	dly	11	TWN	HAM	FSK8	125	1750	ALE, “BV4AS” – daily - just for info!
DK2OM	14109,0	vt	dly	11	INS	HAM	FSK8	120	1750	ALE, “YD00XH” – just for info!
DK2OM	14109,0	vt	dly	11	S HRV D		FSK8	125	1750	ALE, “SM3FXL” “9A4OS” “9A3BRV” “DK0ESD” - just for info!
DK2OM	14109,0	vt	vd	11	J		FSK8	125	1750	ALE, “JH1ESB” – just for info
DK2OM	14160,0	vt	dly	11	MRC		FSK8	125	1750	ALE, “9204” “9228” “9236”
DK2OM	14162,0	1522	09	11	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 7.6 sec bursts
DK2OM	14171,0	0840	30	11			PSK2A	120	2600	AT3004D - Moscow
DK2OM	14192,0	vt	vd	11	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14204,0	0745	14	11	RUS		OFDM	35.5	2760	OFDM 60 – PSK4B – Moscow
DK2OM	14221,0	2020	dly	11	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily – – mostly idling
DK2OM	14260,0	vt	dly	11	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14260,0	---	--	11	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne
DK2OM	14260,9	---	--	11	RUS		OFDM	35.5	2760	OFDM 60 – PSK4B – Moscow
DK2OM	14270,0	1020	02	11	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14272,0	---	--	11	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14295,0	vt	dly	11	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14295,0	ady	dly	11	TJK		A3E		9k	3 rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14315,0	0917	03	11	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14340,0	---	--	11	RUS		PSK2A	120	2600	AT3004D – Vladivostok with spurious emissions +/- 35 kHz and +/- 70 kHz - daily
DK2OM	14346,0	vt	dly	11	POR		FSK8	125	1750	ALE, “CT2IXQ” just for info – various times, daily
DK2OM	14346,0	0913	03	11	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14348,0	vt	dly	11	THA	HS0ZEA	A1A			HS0ZEA beacon – 14347.950 kHz - every 5 minutes – daily - just for info!
DK2OM	14351,6	---	--	11	E		OFDM PSK4A	30	2700	OFDM 73 + intro tone – HFD+VL - experimental transmissions – Las Palmas – just for info!
DK2OM	18080,0	0730	daily	11	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18100,0	vt	dly	11	MRC	no ITU	FSK8	125	1750	ALE, “A2” “A4” “A5” “A7” “S6” – “C3” “R3” “G401” “CD” “09” “G2” “LG6” “G301” “ELJADIDNET4” - daily, various times
DK2OM	18106,0	vt	vd	11	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18106,2	vt	dly	11	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	18107,0	vd	vt	11	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	18117,5	vt	vd	11	POR	CT2IXQ	FSK8	125	1750	ALE, "CT2IXQ" – just for info
DK2OM	18140,0	vt	dly	11	SRB	YU1BI	FSK8	125	2600	ALE, "YU1BI" – just for info!
DK2OM	18150,0	---	--	11	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	vt	vd	11	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21000,0	---	--	11	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21002,2	---	--	11	SDN	!0000 !9999 !8888	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21096,0	vt	dly	11	INS	YD00XH	FSK8	125	1750	ALE, "YD00XH3" – daily, various times - just for info!
DK2OM	21096,0	vt	vd	11	G		FSK8	125	1750	ALE, "M1DFO" – just for info!
DK2OM	21145,0	vt	dly	11	MRC	no ITU	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	21145,8	ady	dly	11	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21190,0	---	--	11	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow
DK2OM	21400,0	---	--	11	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow
DK2OM	21438,0	0948	15	11	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	11	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	---	--	11	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	vt	vd	11	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	ady	dly	11	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28025,0	---	--	11	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28051,5	1236	28	11	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28075,0	---	--	11	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28085,1	---	--	11	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28146,0	vt	vd	11	ARG B		FSK8	125	1750	ALE, "LU8EX" "PY2TI" "DL1" – just for info!
DK2OM	28212,0	---	--	11	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28435,0	----	--	11	E		F1B	81.9	140	Datawell-buoy "Waverider" – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28459,8	---	--	11	GAB		A3E		1060	carrier and dots on USB and LSB, bursts every 60 sec – carrier – Gabon - daily
DK2OM	28499,8	---	--	11	MEa		F1B	81.9	140	Datawell-buoy "Waverider" – 28499.875 kHz – Persian Gulf

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28746,5	---	--	11	GAB		A3E			carrier and dots on USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28751,6	---	--	11	GAB		A3E		1080	carrier and dots on USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28960,0	vt	vd	11	IRN		FMOP		50k	Iranian radar bursts – 150 and 313 sps – long lasting - daily
DK2OM	29114,0	---	--	11	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	---	--	11	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.880 kHz – Spain Fuerteventura - daily, all day
DK2OM	29375,0	---	--	11	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	11	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	11	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29400,0	1005	02	11	IRN		FMOP		50k	Iranian radar bursts – 307 and 870 sps
DK2OM	29450,0	---	--	11	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	11	G		F1B	81.9	140	Datawell-buoy “Waverider” – 29499.974 kHz- area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	11	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	11	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29685,0	---	--	11	I		VFT		2300	Italian MIL – Brescia - daily
DK2OM	29699,5	---	--	11	I		VFT		1600	Italian MIL – Brescia - daily
DK2OM	50100,0	vt	dly	11	D		QRM			intentionally disturbed by a neighbouring LED lamp with S7 – “many thanks” to German “PTT” Eschborn 🍌

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1896.5	2230	07	11	D		PSK8	German navy- now audible all day and night. Frequency unusable.
IRTS	1980	1705	10	11	E or MM		USB	2 Spanish fishermen. Huge signals.
IRTS	3525.6	1122	11	11	IRL or MM		USB	2 Irish fishermen. Both Cork accent.
IRTS	3550	1710	06	11	E or MM		USB	2 Spanish fishermen.
IRTS	3550	0732	27	11	F		AM	French Hams still violating the band plan on a daily basis.
IRTS	3555	0953	25	11	POR or MM		USB	2 Portuguese fishermen. Very loud. One of the fishermen has VHF traffic in the background.
IRTS	3560	1708	06	11	E or MM		USB	2 Spanish fishermen.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	3565	1409	02	11	E or MM		USB	2 Spanish fishermen.
IRTS	3623.5	1210 to 1222	21	11	E or MM		USB	2 Spanish fishermen.
IRTS	3692	0740	13	11			LSB	Somebody plays loud Dutch polka music.
IRTS	3741.5	1219	29	11	F or MM		USB	2 French fishermen.
IRTS	5353	1826 to 1845	12	11	POR or MM		USB	2 Portuguese fishermen. Huge signals. Loud motor noise from both ships.
IRTS	5360	2315	01	11	E or MM		USB	2 Spanish fishermen on and off for an hour.
IRTS	5400	1649 to 1701	17	11	F or MM		USB	2 French fishermen on an Irish spot frequency. Huge signals.
IRTS	5400	1602	28	11	POR or MM		USB	2 Portuguese fishermen. Very strong.
IRTS	5398.5	0908	10	11	E		Digital	Data stream from Barcelona. On and off. Strongest in the early morning and late afternoon. Audible much weaker during the day. Pest. Irish and UK 5 MHz spot frequency.
IRTS	5398.5	1430	19	11	UK		USB	DQRM by an unknown operator. Somebody tunes up as soon as this frequency is used by a Ham. Happens on and off for months now. Irish and UK 5 MHz spot frequency.
IRTS	7050	1415	02	11	UKR/RUS		LSB	Russian-Ukrainian radio war. Daily all day long.
IRTS	7055	1420	02	11	UKR/RUS		LSB	Russian-Ukrainian radio war- daily all day long.
IRTS	7100	1120-1140	23	11			LSB	Somebody transmits the recitation of the Holy Quran.
IRTS	7120	1812	05	11	SOM		AM	Radio Hargaysa. Daily in the early morning and most of the afternoon and early evening.
IRTS	7140	0406	06	11	ERI/ETH		AM	Radio Eritrea and white noise out of Ethiopia.
IRTS	7153	1225 to 1238	10	11			LSB	Somebody transmit the recitation of the Holy Quran.
IRTS	7180	0410	06	11	ERI/ETH		AM	Radio Eritrea and white noise from Ethiopia.
IRTS	7205	1713	10	11	CHN		AM	Radio China International splattering down to 7199 KHz.
IRTS	10112	0710-0715	11	11			USB	A male voice reads a numbers and figures.
IRTS	14148	0836	09	11			FMCW	Radar from 14148 to 14248 KHz. On and off for an hour.
IRTS	14192	1130	04	11	RUS		F1B	RUS navy Kaliningrad. Daily during hours of daylight.
IRTS	14295	1405	14	11	TJK		AM	3 rd harmonic from Radio Tadjikistan.
IRTS	18073	1341	03	11			FMCW	Radar from 18073 to 18115 KHz. All frequencies unusable.
IRTS	18081	0829	17	11			FMCW	Radar from 18081 to 18110 KHz.
IRTS	18147	1205	02	11			FMCW	Radar from 18147 to 18172 KHz.
IRTS	18149	1415	03	11			FMCW	Radar from 18149 to 18201 KHz, All frequencies unusable.
IRTS	18157	1114	05	11			FMCW	Radar from 18157 to 18197 KHz. Monster signal .
IRTS	18158	1057	14	11			FMCW	Radar from 18158 to 18188 KHz.
IRTS	21330.5	1404	08	11			FSK	A North Korean embassy in West Africa.
IRTS	21345	1208	02	11			FSK	A North Korean embassy in West Africa.

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3520,0	2025	29	11			F1B	250	
MRASZ	3522,1	1814	6	11			F1B	230	
MRASZ	3524,0	1652	30	11			F1B	200	
MRASZ	3527,0	2001	6	11			F1B	200	
MRASZ	3527,0	2003	27	11			F1B	200	
MRASZ	3527,0	2024	29	11			F1B	200	
MRASZ	3536,0	1541	30	11			A1A		"QMNJX XVCGR PLAOJ"
MRASZ	3550,7	2004	27	11			USB		Spanish language
MRASZ	3557,0	1720	20	11			F1B	250	
MRASZ	3557,0	1920	24	11			F1B	250	
MRASZ	3570,5	2015	29	11			F1B	250	
MRASZ	3576,0	1648	24	11			F1B	250	
MRASZ	3577,9	1539	30	11			F1B	180	
MRASZ	3580,5	1736	10	11			LSB		unidentified language
MRASZ	3593,7	2100	21	11	RUS	D	A1A		beacon D
MRASZ	3594,0	2100	21	11	RUS	C	A1A		beacon C
MRASZ	3600,0	1742	10	11			USB		French langue, non HAM
MRASZ	3610,0	1709	30	11			PSK2		AT3004D
MRASZ	3611,0	1705	30	11			OTHR		
MRASZ	3640,0	1835	11	11			F1B	250	with deliberate disturbance on one carrier
MRASZ	3640,0	1813	13	11			F1B	250	hrd on day16 also
MRASZ	3653,0	2020	29	11			F1B	200	
MRASZ	3658,0	2000	27	11			A1A		"VVV"
MRASZ	3677,0	1925	24	11			F1B	250	
MRASZ	3690,0	1834	30	11			LSB		ukrainian nationalist with russian disturbance
MRASZ	3724,0	1942	6	11			F1B	250	
MRASZ	3734,6	1837	11	11			NON		
MRASZ	3736,0	1924	24	11			F1B	250	
MRASZ	3739,0	1715	30	11			PSK2		AT3004D
MRASZ	3740,0	1910	11	11			USB		navigations details
MRASZ	3777,0	1945	27	11			A1A		"VVV"
MRASZ	3792,0	1824	6	11			F1B	200	
MRASZ	3797,0	2008	27	11			A1A		"S 037/47 W 46/46 S 037/45"
MRASZ	3797,0	2021	29	11			F1B	250	
MRASZ	7008,0	0723	21	11			F1B	250	
MRASZ	7030,0	0843	29	11			F1B	250	
MRASZ	7030,0	0905	29	11			A1A		dashes
MRASZ	7030,0	2000	29	11			F1B	250	
MRASZ	7030,0	1522	30	11			F1B	250	
MRASZ	7050,0	0927	29	11			LSB		chaos
MRASZ	7055,0	0718	21	11			LSB		music
MRASZ	7089,0	2041	21	11			PSK2		AT3004D
MRASZ	7120,0	1821	6	11	SOM		A3E		R. Hargaysa, hrd: dly
MRASZ	7140,0	1821	6	11	ERI		A3E		R. Eritrea + QRM, hrd: till 13
MRASZ	7180,0	1822	6	11	ERI		A3E		R. Eritrea + QRM, hrd: till 13
MRASZ	10114,8	0725	21	11	RUS		F1B	1000	
MRASZ	14105,0	1021	29	11			OTHR		
MRASZ	14128,0	0824	24	11			PSK2		AT3004D

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

REF – France – F5MIU (Francis)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Baud	Sh /Bw	DETAILS
R.E.F. F5MIU										November 2017
	7120	1740	10	11			AM		10kHz	BC station
	7140	1740	10	11			AM		10kHz	Arab all day
	7145	1730	16	11			fmcw		8kHz	S5 Data tx multi carrier
	7180	1740	10	11			AM		20kHz	BC station
	7205	1737	10	11			AM		14kHz	Radio China in Esperanto
	10130	1726	16	11			fmcw		20kHz	OTH radar S7 pulsed 20mS
	14125	0905	30	11			fmcw		50kHz	OTH radar S5 pulsed 100mS
	14140	0846	14	11			fmcw		50kHz	OTH radar S7 pulsed 40mS
	18060	0847	24	11			fmcw		20kHz	OTH radar S6 pulsed 20mS
	18095	0843	17	11			fmcw		20kHz	OTH radar S9 pulsed 20mS
	18095	0843	23	11			fmcw		20kHz	OTH radar S8 pulsed 20mS
	21390	0855	22	11			fmcw		20kHz	OTH radar S9 pulsed 20mS
	21410	0850	27	11			fmcw		20kHz	OTH radar S8 pulsed 40mS

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3498	16.41	20	11	F		J3E U			French fishery, up to 3501,0 kHz
REP	3510	07.21	12	11	F		J3E-U			French fishery
REP	3565	07.05	12	11	E		J3E-U			Spanish fishery
REP	3570	16.38	20	11	E		J3E U			Spanish fishery, Galicia province, daily
REP	3590	22.05	22	11	E		J3E U			Spanish fishery
REP	3623	16.43	20	11	E		J3E U			Spanish fishery, Galicia province
REP	7000	17.10	20	11			J3E-U			Unid language, two male ops
REP	7000	20.07	17	11	B		J3E U			Brazilian fishery, daily
REP	7000	22.09	22	11			J3E-U			Spanish language fishery, S/C America accents
REP	7001	20.12	10	11			FSK8	2400	3k	STANAG 4285 600/Long, NATO
REP	7008	23.56	05	11	RUS		F1B	75	200	T206 modem, Russia mil
REP	7010	17.51	21	11			FSK8			ALE 92xx net, "920001", "920004" sounding
REP	7013	21.18	15	11			FSK8			ALE "106025" clg "330372"
REP	7020	07.20	10	11			FSK8			Unid ALE "920" calling itself
REP	7020	18.42	16	11			FSK8			ALE "1YU" clg "108"
REP	7070	20.06	15	11			FSK8			ALE "20002" sounding
REP	7070	17.32	23	11	GEO		FSK8			Ale Georgia Border Guard "288" clg "334"
REP	7075	17.31	21	11	RUS		PSK4	120	3k	AT3004D modem, Russia
REP	7076	18.59	01	11	RUS		F1B	75	200	T206 modem, Russia mil
REP	7120	17.40	10	11	SOM		8k00 A3EGN			Radio Hargaysa
REP	7120	18.06	09	11	SOM		8k00 A3E			Radio Hargaysa, Somalia, dly
REP	7140	15.20	06	11	ETH		8k00 A3E			Radio Eritreia jammed by Radio Ethiopia, dly
REP	7181	18.10	09	11	ETH		8k00 A3E			Radio Eritreia, pop music
REP	7185	11.28	13	11	RUS		PSK4	120	3k	AT3004D modem
REP	7197	17.26	16	11	TUR		FSK8			ALE "316013" Turkish Red Crescent sounding
REP	10115	19.00	15	11	MRC		J3E-U			Fishermen
REP	10140	18.08	15	11	E		J3E-U			Spanish fishery, Galicia province
REP	14005	10.16	08	11			F1B	300	425	RY's
REP	14050	14.52	07	11	RUS		FMCW	50	18k	OTH radar, Russia
REP	14060	17.14	21	11	ISR		FSK8			ALE Israel Air Defence Network "AAA" sdng
REP	14195	12.31	14	11	RUS		F1B	50	200	CIS36 modem, Russia, 24/7
REP	14285	15.00	14	11			FMCW			OTH radar, burst mode
REP	14300	13.05	22	11	RUS		F1B	75	500	CIS 50 modem
REP	28065	16.57	02	11	B		A3E			Brazilian CB's
REP	28075	16.59	02	11	B		A3E			Brazilian CB's disturbing FT8 comms
REP	28101	17.17	02	11			F1B	51	300	GPS buoy of east coast of Africa
REP	28105	12.23	10	11	RUS		F3E			Taxi YL dispatcher
REP	28255	17.00	02	11	B		A3E			Brazilian CB's disturbing beacon band
REP	29145	11.20	10	11	RUS		F3E			Taxi dispatcher
REP	29185	11.14	10	11	RUS		F3E			Taxi dispatcher
REP	29250	15.00	17	11			F1B	82	120	Datawell buoy

RSGB - Great Britain – G0MGX (Mark)**SRAL – Finland – OH2BLU (Pekka)**

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7002,0	h24	10. 11.	11		UiMUX	PSK8	600	2400	
SRAL	7003,0	08550	1.	11		UiMUX	PSK2	120	2600	
SRAL	7008,0	0515- 1540	*	11		UiPTR	F1B		250	Days: 5. 7. 11.
SRAL	7012,0	1140- 1425/	22.	11		UiMUX	PSK2	120	2600	
SRAL	7012,0	1230	29.	11		UiPTR	F1B		250	
SRAL	7014,0	0820- 1210/	15. 29.	11		UiMUX	PSK2	120	2600	
SRAL	7016,0	1115	29.	11		UiMUX	PSK2	120	2600	
SRAL	7022,0	1010- 1355/	*	11		UiMUX	PSK2	120	2600	Days: 6. 27. 28.
SRAL	7030,0	0630- 1900	*	11	RUS	UiPTR	F1B		250	Days: 5. 13. 29. 30.
SRAL	7032,0	0645- 1400	16. – 18.	11		UiMUX	PSK2	120	2600	
SRAL	7033,0	0920- 1395	9. 17.	11		UiMUX	PSK2	120	2600	
SRAL	7049,0	1325	17.	11		UiMUX	PSK		2400	
SRAL	7062,0	0825- 0844/	5.	11	RUS	464	R3E-u			Synth. female 5F
SRAL	7074,0	1030- 1207/	20. 28.	11		UiMUX	PSK		2400	
SRAL	7076,0	0520- 1945	1. – 3.	11		UiPTR	F1B		250	
SRAL	7089,0	0620- 0950	*	11		UiMUX	PSK		2400	Days: 22. 23. 28.
SRAL	7098,0	0630- 1125/	23. 30.	11		UiPTR	F1B		250	
SRAL	7120,0	/0330- 0530	dly	11	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/1300- 1400	dly	11	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/1500- 2000/	dly	11	SOM	R.Hargeis a	A3E			
SRAL	7127,8	0630- 0730	13.	11		UiMUX	PSK8		2400	
SRAL	7140,0	0300- 0530	dly	11	ERI	VoBME	A3E			Jammed by ETH to 0500
SRAL	7140,0	1300- 1835/	dly	11	ERI	VoBME	A3E			Jammed by ETH to 1700
SRAL	7141,0	0800- 0815	1.	11		UiMUX	PSK2	120	2600	
SRAL	7142,0	0745- 0930	7. 21.	11		UiPTR	F1B		250	
SRAL	7149,5	0610- 0640/	6.	11		UiMUX	PSK2	120	2600	
SRAL	7153,0	1040- 1305/	17.	11		UiMUX	PSK2	120	2600	
SRAL	7158,0	0640- 0700	3.	11		UiPTR	F1B		250	
SRAL	7159,0	0820- 0845/	16.	11		UiPTR	F1B			
SRAL	7162,0	0640- 0750/	29.	11		UiPTR	F1B		250	
SRAL	7162,0	0750	30.	11		UiMUX	PSK2	120	2600	
SRAL	7167,0	0630- 1630	13.	11		UiPTR	F1B		250	
SRAL	7169,0	0555- 1400/	2. 3.	11		UiPTR	F1B		200	

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7170,0	0650	22.	11		UiMUX	PSK2	120	2600	
SRAL	7171,0	0615-1417/	6. 7. 9.	11		UiMUX	PSK2	120	2600	
SRAL	7172,0	1315-1508/	20.	11	RUS	UiMUX	PSK2	120	2600	
SRAL	7181,6	0300-0700	dly	11	ERI	VoBME	A3E			Jammed by ETH to 0500, some days on 7180,0 kHz
SRAL	7181,6	1330-1835/	dly	11	ERI	VoBME	A3E			Jammed by ETH to 1700, some days on 7180,0 kHz
SRAL	7193,0	0745-1415	*	11		UiPTR	F1B/NON		200	Days: 4. 6. 10. 11. 13. 14. 20.
SRAL	7193,0	1030-1238/	18.	11		UiPTR	A1A/F1B		200	MR 5F
SRAL	7194,0	1140	22.	11		UiMUX	PSK2	120	2600	
SRAL	7198,0	0930-1030/	18. 19.	11		UiMUX	PSK2	120	2600	
SRAL	10112,0	0700-0715	11. 18.	11		111 or 000	J3E-u			Male English 5F
SRAL	10 MHz	1900-2130	1. 22.	11	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 21d)
SRAL	14128,0	0830	24.	11		UiMUX	PSK2	120	2600	
SRAL	14192,0	0630-1400	*	11	RUS	UiPTR	F1B		200	Days: 4. 12. 15.
SRAL	14221,0	0430-0600/	*	11	KGZ	UiPTR	F1B		200	Days: 1. – 14. 19. 28.
SRAL	14240,0	0615	7.	11		438	A3E			
SRAL	14295,0	0515-1400	dly	11	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX
SRAL	14 MHz			11	RUS	29B6	FMCW			50Hz / 15 kHz, (WebSDR 0d)
SRAL	18 MHz	0800-1345/	*	11	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, Days: 3. 17. 21. 22. (WebSDR 18d)
SRAL	21 MHz	0615-1105	1. 7. 17.	11	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 19d)
SRAL	21438,0	dly		11	RUS	RCV	A1A			
SRAL	24 MHz			11		UiOTHR	FMCW			(WebSDR 1d)
SRAL	28 MHz	0715-1130	*	11	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz – 300 kHz, days 11. 20. 22. 24. 28. 29.
SRAL	28960,0	0640-0915	1. 2. 19.	11	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz
SRAL	28 MHz			11		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 0d)
SRAL	28 MHz			11	RUS	Taxi disp.	F3E			0 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	3522.0	1602	08	11			F1B	75	250	
USKA	3524.0	2341	30	11			F1B	75	200	
USKA	3527.0	2104	02	11			F1B	50	200	daily
USKA	3532.0	2336	30	11	F		DQPSK	14x75	5k9	LINK 11 CLEW DSB mode
USKA	3553.8	2258 2247	07 22	11			PSK8	2400	2k4	Stanag 4285, frame format 600bps/long daily
USKA	3570.0	2119	20	11			J7D	12x120	2k7	BPSK; CIS12
USKA	3586.0	2300	07	11			F1B	50	200	
USKA	3596.0 VFO USB	2302	07	11			J7D	12x120	2k7	BPSK; CIS12
USKA	3653.0	1500	30	11			F1B	50	200	
USKA	3759.0	1455	30	11			J7D	12x120	2k7	BPSK; CIS12

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7000.0	1019	10	11			J3E-U		2k3	Spanish
USKA	7001.8	2327	09	11			PSK8	2400	2k4	STANAG 4285; often frame format 600bps/long
USKA	7003.0 VFO LSB	1428	30	11			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz. Preamble 4x PSK 60Bd, spacing 600Hz; Pilotone at 450Hz
USKA	7022.0	0944	27	11			J7D	12x120	2k7	QPSK; CIS12 (aka AT3104D)
USKA	7030.0	2334	09	11			F1B	75	250	often
USKA	7064.0	2100	02	11			J7D	12x120	2k7	BPSK; CIS12
USKA	7076.0	2102	02	11			F1B	75	250	
USKA	7081.0	1522	08	11			F1B	75	250	
USKA	7098.0	0941	23	11			F1B	75	250	
USKA	7120.0	1553	08	11	SOM		A3E			BC; Radio Hargaysa daily
USKA	7140.0	1557	08	11			A3E			BC; massively jammed often
USKA	7140.0	1557	08	11					~ 20k	Jammer, white noise often
USKA	7180.0	1559	08	11	ERI?		A3E		~8k	BC, massively jammed
USKA	7180.0	1559	08	11					~ 10k	Jammer, white noise, heavy
USKA	7181.5	1540	30	11	ERI?		A3E		~8k	BC (voice)
USKA	7193.0	1011	10	11			F1B	50	500	jammed
USKA	7193.1	1011	10	11			A1A			Jammer; fast dots; stupid and illegal!
USKA	14192.0	1031	14	11			F1B	50	200	almost daily
USKA	14334.0	0942	07	11			FMOP	10 sps	160k	OTHR, partially in 20m band
USKA	21030.0	0913	22	11			FMCW	50 sps	20k	OTHR
USKA	21390.0	0908	22	11			FMCW	50 sps	20k	OTHR

Veron – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3522.0	16.26	7	11		UiPTR	F1B		Ptr
VERON	3527.0	21.54	27	11		UiPTR	F1B		Revs
VERON	3568.0	18.53	28	11		UiPTR	F1B		Ptr
VERON	3576.0	18.04	22	11		UiPTR	F1B		Ptr
VERON	3578.0	18.50	28	11	CIS	8AAM	A1A		Proc's/Calls
VERON	3588.0	18.06	27	11	CIS	UiCW	A1A		5BL ending 982 K
VERON	3640.0	16.29	7	11		UiPTR	F1B		Ptr
VERON	3668.0	21.50	27	11		UiPTR	F1B		Ptr
VERON	3676.0	17.30	10	11		UiPTR	F1B		Ptr
VERON	3735.0	18.10	22	11	CIS	UiCW	F1A		QTC 437 MMMMM 5BL
VERON	3792.0	18.32	18	11		UiPtr	F1B	200	Printer; S9
VERON	7008.0	14.21	9	11		UiPtr	F1B	250	Printer; S9++
VERON	7008.0	15.09	11	11		UiPtr	F1B	250	Printer; S5
VERON	7030.0	19.19	29	11	CIS	UiPtr	F1B	250	Ptr
VERON	7098.0	10.57	23	11		UiPTR	F1B		Ptr
VERON	7121,3	18.50	18	11		UiCar	NON		Persitant carrier; S7 with deep QSB
VERON	7140.0	15.26	18	11	ETH	UiJam	A3E	10k	White noise jammer; S4
VERON	7169.0	15.03	16	11	?	?	A1A		fast revs
VERON	7180.0	16.52	18	11	ETH	UiJam	A3E	10k	White noise jammer; S5
VERON	7180.0	18.24	18	11	ERI	R.Eritrea	A3E	9k	E. African music; S7
VERON	7210.0	22.01	18	11	CHN	R.China	A3E	14k	Spanish lang; S9++; spatters in Ham band
VERON	10100,0	14.28	8	11		UiBC	F3E?		FM-like signal; S5
VERON	10119,0	14.39	23	11		UiRadar	FMOP	20k	OTHR; 50sps; S3 with deep QSB to S0
VERON	10130,0	16.04	2	11		OTHR	FMCW		radar
VERON	14192,0	10.22	24	11	CIS	UiPTR	F1B		Revs/Ptr
VERON	14280,0	10.15	22	11	UKR		A3E		female voice encrypted messages
VERON	21438,0	10.00	24	11	RUS	RCV	A1A		RIP90 DE RCV QTC 284 NAWAREA
VERON	21438,0	10.08	24	11	RUS	RCV	A1A		RIP90 DE RCV QTV 278 NAWIP

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

**Season's greetings from HB9CET (Peter) and DK2OM (Wolf)!
Best wishes and health in the coming year
to all our friends and their families worldwide!**



Peter



Wolf

Many thanks for your interest!

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