



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. How to handle E-Mail addresses!

If you are a coordinator or a member of our contribution lists like “Newsletters”, “coordinator news” or “Intruder-Alert-System”, please tell us in time, when you get another address. If you send a message to Intruder-Alert, please use **only** the address, which is known to the system. All other mails are hold on the server until they get a release by Peter or me.

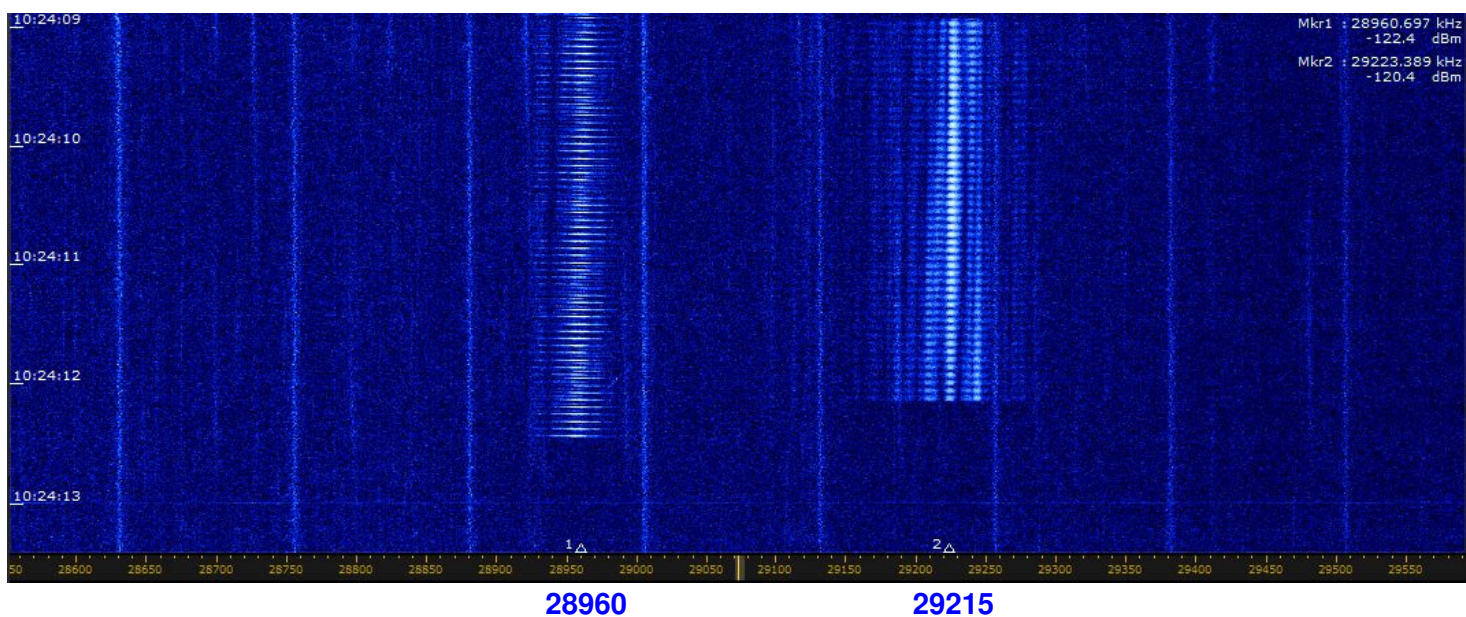
2. Peter Jost, HB9CET, created an excellent presentation about the structure and work of IARUMS Region 1:

<http://www.iarums-r1.org/iarums/cet-la-2017.pdf>

Many thanks dear Peter for the excellent presentation!

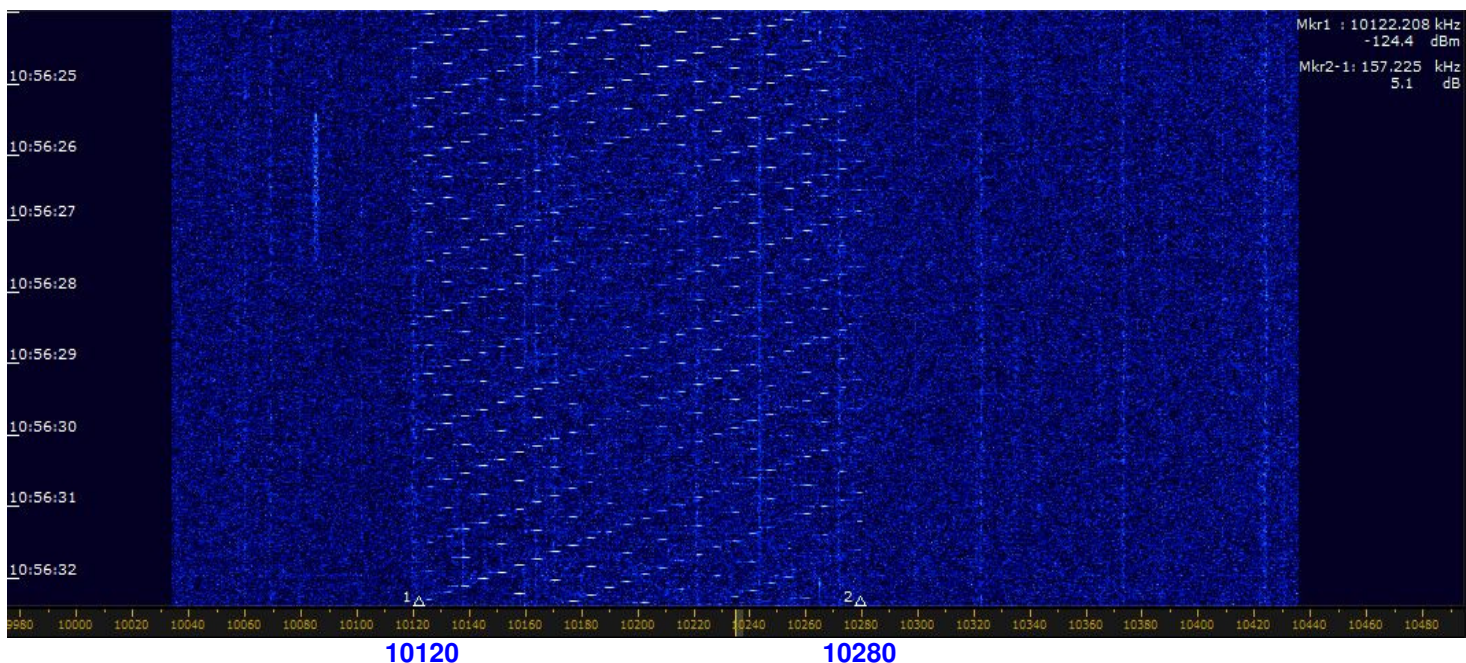
3. Iranian radar on 28 MHz

We found the Iranian radar on 28960, 29070, 29160 and 29215 kHz transmitting bursts on FMOP on October 24th. The screenshot shows the signals on 28960 and 29215 kHz.



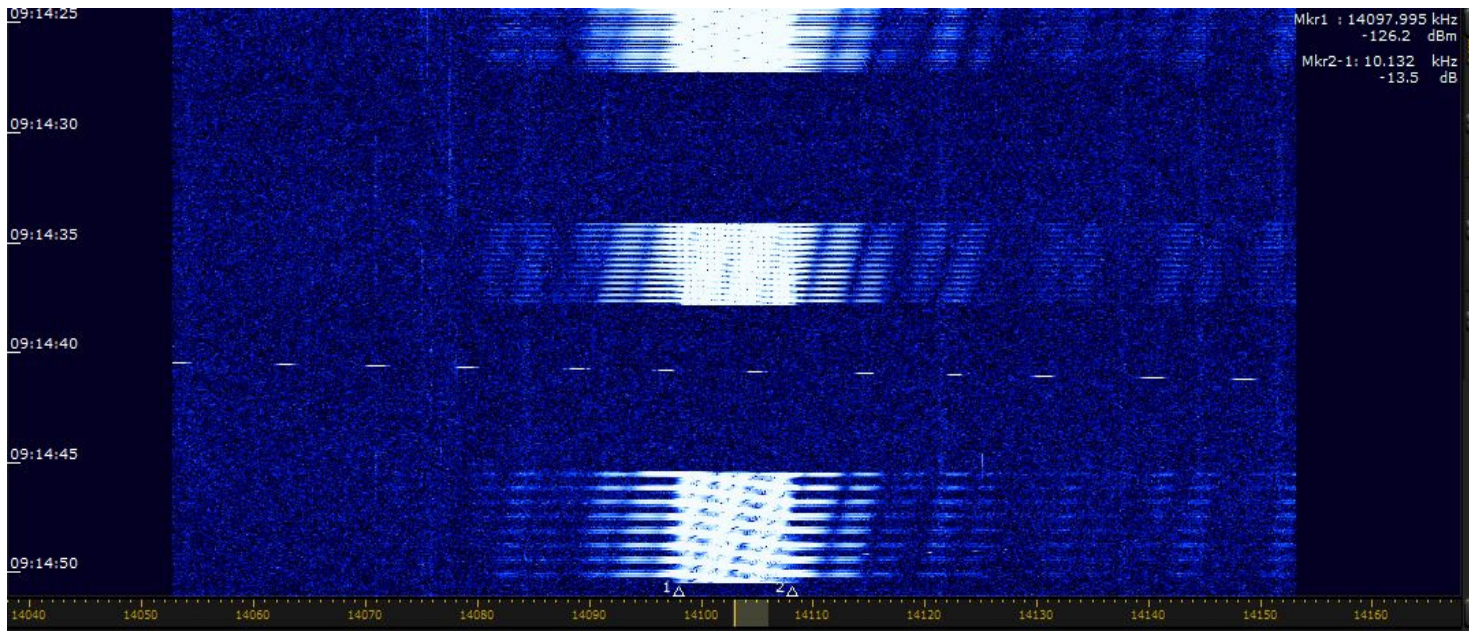
4. Chinese wideband OTHR on 10 MHz

A Chinese wideband OTH radar transmitted on 10120 – 10280 kHz on Oct. 30th at 1056 utc. Screenshot below!



5. Chinese OTH radar with 3 alternating sweeprates on 14103 kHz

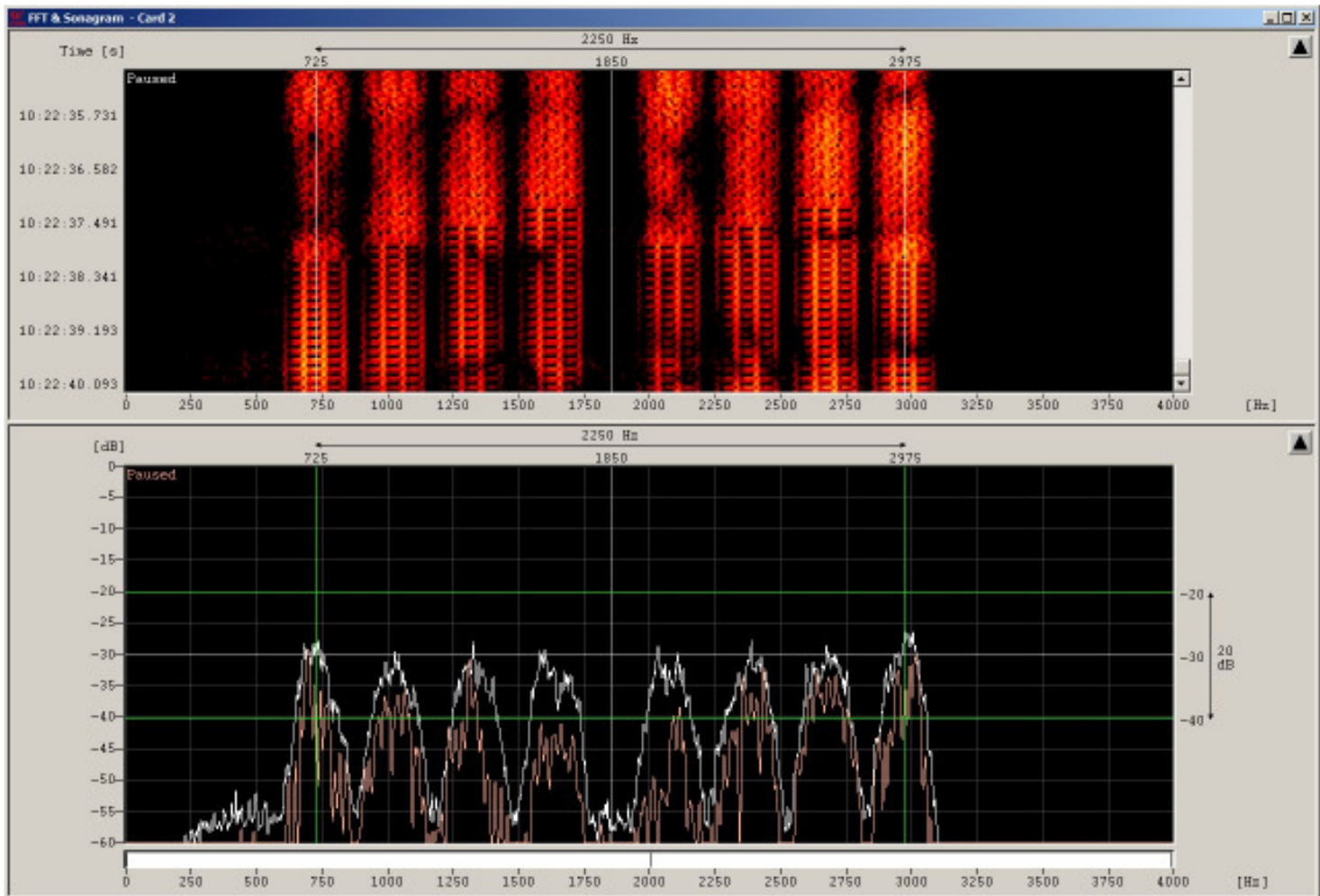
A Chinese OTH radar was active on 14103 with 3 alternating sweeprates on Oct. 27th at 0914 utc. Parameters: 42 – 50 – 66.66 sweeps/sec and alternating bursts. Screenshot!



6. Chinese system PRC4+4 on 14119.5 kHz RF (USB QRG)

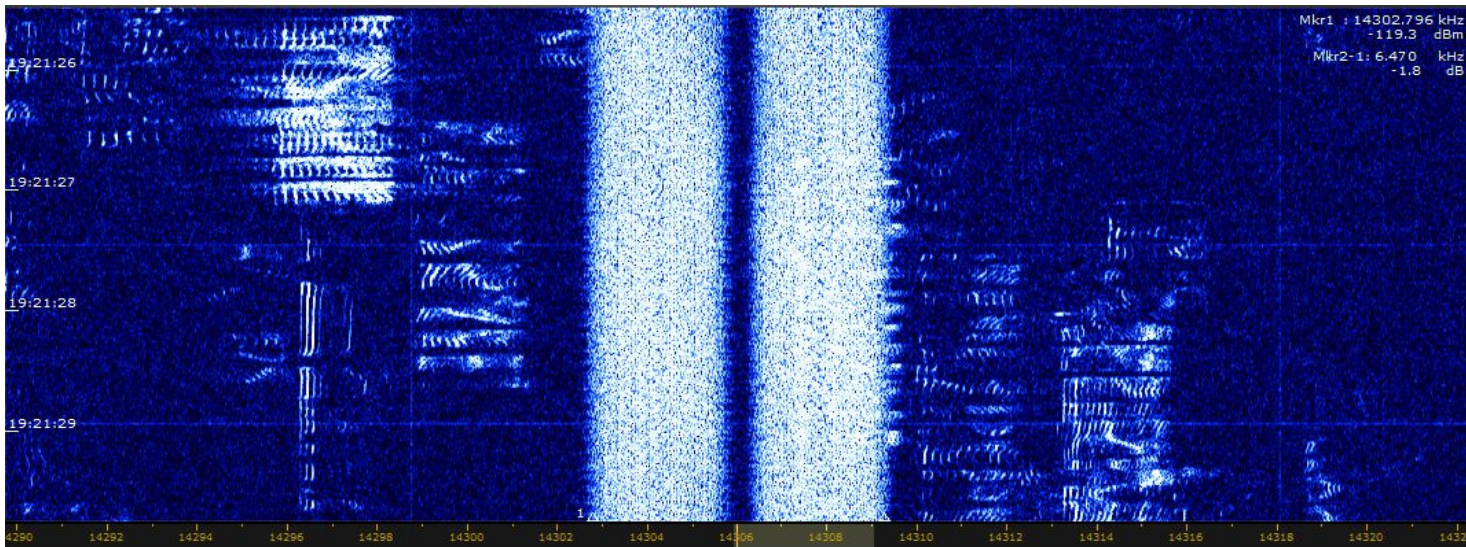
We observed the Chinese system PRC4+4 on 14119.5 kHz RF. Date: Oct. 1st at 1200 utc.

Parameters: 8 x 75 Bd PSK4B – 2250 Hz wide. Screenshot: W-Code Wavecom showing traffic and idle condition.



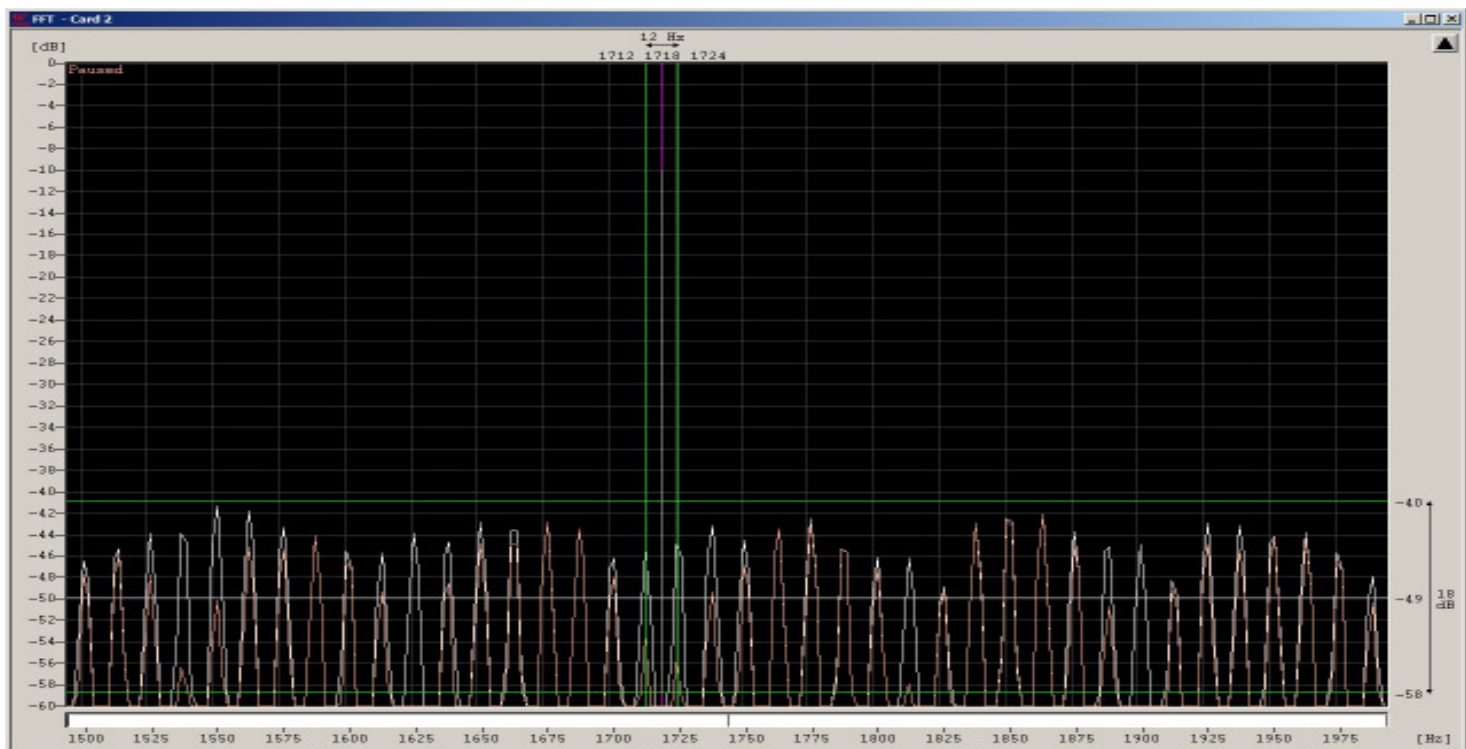
7. Stanag-4285 on 14306 kHz

A MIL system Stanag-4285 appeared on 14306 kHz (center QRG) in DSB mode (both sidebands).
Parameters: PSK 8A – 2400 Bd – 600 bps long. Location: Area of Santander – North Spain
Date: Oct. 28th at 1921 utc. Screenshot showing both sidebands.



8. OTH radar Cyprus 21030.0 KHz on FMOP

The Cyprus radar on 21030 kHz disturbed 21010 – 21050 kHz on FMOP and 12.5 sps - Oct. 25th – 1225 utc
Screenshot: Measurement of the sweeprate by Wavecom FFT display.



10. Miscellaneous or bad news:

- 3550.0 or 3560.0 kHz – USB – Spanish fishermen daily at 2000 utc
- 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

11. 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)
FMOP = frequency modulation on pulse (OTH radars) *** **5BL** = cyrillic 5 lettergroups

ARSK – Kenya – 5Z4BV (Kamweti)

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

DG0JBJ (Mario) observed **0** OTH radars on 40 m, **0** OTH radars on 20 m, **55** OTH radars on 17m, **95** OTH radars on 15 m and **27** OTH radars on 10 m in October 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	3,5 – 50 MHz	0813	21	10	D		QRM			3.5 - 50 MHz intentionally disturbed by a neighbouring LED lamp – daily - various times
DK2OM	1812,0	1942	09	10	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS3-RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	1939	09	10	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	1940	09	10	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1876,0	1940	09	10	I	IQN	USB			Lampedusa Radio, weather reports - daily
DK2OM	1888,0	1941	09	10	I	IPD	USB			Civitavecchia Radio, weather reports - daily
DK2OM	1896,5	ady	dly	10	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	1941	09	10	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3503,5	vt	dly	10	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3524,0	2102	11	10			F1B	75	250	
DK2OM	3525,0	1738	16	10	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2003	01	10	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	---	--	10	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	---	--	10	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3550,0	0730	dly	10	F		A3E			French amateurs not respecting bandplans - daily
DK2OM	3550,0	vt	vd	10	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,0	2000	02	10	E		USB			Spanish fishery – “soy por

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										aqui" - daily
DK2OM	3550,7	2100	08	10	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation!
DK2OM	3553,8	ady	dly	10	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3560,0	2030	10	10	E		USB			Spanish fishery - daily
DK2OM	3568,0	2100	11	10			F1B	75	250	
DK2OM	3576,6	ady	dly	10	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3585,0	ady	dly	10	TWN	HLL	F1C		800	WX-fax Taiwan - 120 rpm, IOC 576, - daily, all day - legal!
DK2OM	3587,0	vt	vd	10	E	no ITU	FSK8	125	1750	ALE, "TVV" "TXX" - Spanish Guardia Civil
DK2OM	3592,0	1943	19	10			PSK2A	120	2600	AT3004D -
DK2OM	3593,7	---	--	10	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – "RCV"
DK2OM	3593,8	---	--	10	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – "RMP"
DK2OM	3593,9	---	--	10	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	10	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy – "RIW"
DK2OM	3594,2	---	--	10	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy – "RJS"
DK2OM	3595,0	---	--	10	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC"
DK2OM	3596,0	vt	dly	10	J		FSK8	125	1750	ALE, "JH1ESB" – just for info!
DK2OM	3617,0	vt	dly	10	HRV	9A5EX	FSK8	125	1750	ALE, "9A5EX" – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	10	J	JMH	F1C		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3642,0	ady	dly	10	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3649,0	vt	vd	10	ALG	no ITU	FSK8	125	1750	ALE, "BI20" PA20"
DK2OM	3718,0	vt	vd	10	FEa	7CJK	A1A			loop "7CJK"
DK2OM	3720,0	vt	dly	10	S		FSK8	125	1750	ALE, "YU" "YT" "YV" "DZ" – Swedish MIL
DK2OM	3756,0	2000	dly	10	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	10	FEa	RIS9	A1A			"M8JF de RIS9" - loop
DK2OM	3772,0	ady	dly	10	FEa	A4JC	A1A			"A4JC" - loop
DK2OM	3777,0	vt	dly	10	FEa		A1A			"M8JF de RIS9" – loop – dly
DK2OM	3791,0	vt	vd	10	D	DK0ESD	FSK8	125	1750	ALE, "DK0ESD" – daily - just for info!
DK2OM	3797,0	ady	dly	10	FEa		A1A			"M8JF de RIS9" – loop
DK2OM	5350,0	1732	14	10	E		USB			Spanish fishery – splattering up - daily at 1700 utc or earlier – engine noise in the background – illegal voice traffic!
DK2OM	5361,8 RF	---	--	10	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user !
DK2OM	5362,0	1839	04	10	UKR		PSK2A	120	2600	AT3004D – submode idle
DK2OM	6998,5	--	--	10	POL		FSK8	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	1712	31	10	E		USB			Spanish fishery
DK2OM	7000,0	2050	03	10	I		LSB			Italian pirates
DK2OM	7001,0	1952	12	10	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7001,5	--	---	10	POL		PSK8	2400	2400	RF QRG 6998.5 kHz – 7000.3 kHz center - MIL-188-110A – 600 / 300 bps short – Polish MIL
DK2OM	7010,0	vt	vd	10	ALB	no ITU	FSK8	125	1750	ALE, “RS0” - Tirana
DK2OM	7016,0	1410	11	10			F1B	75	250	
DK2OM	7018,0	---	--	10	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7020,0	vt	vd	10	ALB		FSK8	125	1750	ALE, “CS004A” “RS004D” “CS004” - daily
DK2OM	7027,5	---	--	10	UKR	„V“	A1A			beacon “V” – Kyiv
DK2OM	7039,0	---	--	10	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	7039,2	---	--	10	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	----	--	10	RUS	D	A1A			Cluster beacon D Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” - daily
DK2OM	7039,4	ady	dly	10	RUS	M	A1A			Cluster beacon M – Magadan RUS Navy – „RTS“
DK2OM	7040,0	ady	dly	10	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,5	vt	dly	10	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7049,5	vt	dly	10	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	--	--	10	KGZ		FSK8	125	1750	ALE, “X” “810” “820615” “810698” – Kyrgyzstan MIL
DK2OM	7052,0	1712	19	10	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	7055,0	1710	19	10	CHN		FMOP		10k	7055 and 7057 – double burst - Chinese OTH radar (foghorn) – 66.66 sps – 2 x 3.8 sec bursts
DK2OM	7070,0	vt	vd	10	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7088,8	1940	06	10	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	10	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus
DK2OM	7091,5	---	--	10	KAZ	„V“	A1A			7091.543 kHz - loop with spurious – ident “V” – Almaty - Kazakhstan
DK2OM	7097,0	1707	12	10	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	7099,5	vt	dly	10	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info!
DK2OM	7102,0	vt	dly	10	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	7102,0	vt	vd	10	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, “9A3MIL” “9A2KS” “HB9MHB” “9A0ZG” “9A4OS” “DK0ESD” – just for info!
DK2OM	7102,0	vt	dly	10	J		FSK8	125	1750	ALE, “JH1ESB” – just for info!
DK2OM	7104,0	1725	21	10	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7104 – 7136 kHz
DK2OM	7110,0	vt	dly	10	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7117,0	---	--	10	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	7119,0	vt	vd	10	CHN		FSK8	125	1750	ALE, “D66” “A98”
DK2OM	7120,0	vt	dly	10	SOM		A3E		9k	Radio Hargaysa – Somalia – daily – even audible in Australia and Japan
DK2OM	7137,0	vt	dly	10	TWN		FSK8 LSB	125	1750	ALE, “DEGDG” “DRYHD” “DCOIY” “DSQLK” “DEIQW” “DETWY” Taiwanese navy –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										daily
DK2OM	7138,0	1608	22	10	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7138 – 7170 kHz
DK2OM	7140,0	1620	01	10	ERI ETH		A3E		9k	Radio Eritrea disturbed by Radio Ethiopia by white noise emissions
DK2OM	7155,0	1910	20	10	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7155 – 7187 kHz
DK2OM	7162,0	0703	16	10	RUS		F1B	75	250	Moscow
DK2OM	7162,0	2047	23	10	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7162 – 7194 kHz
DK2OM	7180,0	1620	01	10	ERI ETH		A3E		9k	Radio Eritrea disturbed by Radio Ethiopia by white noise emissions
DK2OM	7183,0	vt	dly	10	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7185,5	vt	dly	10	J TWN		FSK8	125	1750	ALE, “BV4AS” “JH1ESB” - just for info - daily
DK2OM	7198,0	1922	25	10	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	10100,8	ady	dly	10	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	10	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10112,0	---	--	10	I		PSK8A	2400	2400	Stanag-4285 – 600 bps long – area of Rome - daily
DK2OM	10113,0	vt	vd	10	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0640	dly	10	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	10	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “203” “XXZ” – Western Sahara
DK2OM	10116,5	---	--	10	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10120,0	1050	30	10	CHN		FMOP		160k	Chinese wideband OTH radar – 3.33 sps – 10120 – 10280 kHz
DK2OM	10123,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” ”CM2” “ESA” – Algerian Airforce
DK2OM	10129,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10131,0	0937	05	10			F1B	75	200	
DK2OM	10136,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10144,0	ady	dly	10	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,5	vt	dly	10		JH1ESB	FSK8	125	1750	ALE, “JH1ESB” - just for info - daily
DK2OM	10145,5	vt	dly	10	TWN AUS	BV4AS	FSK8	125	1750	ALE, “BV4AS” “VK4SAA” – just for info!
DK2OM	14000,0	1600	05	10	FEa		USB			Far East male persons - daily
DK2OM	14008,0	1050	29	10	RUS		F1B	50	500	Moscow
DK2OM	14025,0	1411	11	10			QRM			23 kHz increments up and down
DK2OM	14044,5	1300	12	10			USB			male persons – Far East
DK2OM	14096,0	1020	29	10	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14100,0	vt	dly	10	ALG	no ITU	FSK8	125	1750	ALE, “6206” “6204” “6212” “6202” “6203” “6207” “6217” “MTL” “IJI” – Mauritanian border – daily, all day
DK2OM	14102,0	1543	24	10	RUS		PSK2A	120	2600	AT3004D - Crimea
DK2OM	14103,0	0850	27	10	CHN		FMOP		10k	Chinese OTH radar – 42 – 50 66.66 sps – 3 – 3.8 – 5 - 6 sec bursts
DK2OM	14109,0	vt	dly	10	TWN	HAM	FSK8	125	1750	ALE, “BV4AS” – daily - just for info!
DK2OM	14109,0	vt	dly	10	INS	HAM	FSK8	120	1750	ALE, “YD00XH” – just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14109,0	vt	dly	10	S HRV D		FSK8	125	1750	ALE, "SM3FXL" "9A4OS" "9A3BRV" "DK0ESD" - just for info!
DK2OM	14109,0	vt	vd	10	J		FSK8	125	1750	ALE, "JH1ESB" – just for info
DK2OM	14109,0	0942	03	10	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14121,3	0900	05	10	CHN		PSK4B	75	2250	PRC4+4 – 8 x 75 Bd – RF 14119.5 kHz - daily
DK2OM	14125,0	0917	09	10	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3,8 sec bursts
DK2OM	14160,0	vt	dly	10	MRC		FSK8	125	1750	ALE, "9204" "9228" "9236"
DK2OM	14160,0	0949	12	10			F1B	100	250	idling – unclean
DK2OM	14162,0	0739	18	10	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14192,0	vt	vd	10	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14221,0	2035	vd	10	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily – – mostly idling
DK2OM	14240,0	0714	17	10			F1B	75	250	
DK2OM	14242,0	0932	04	10	RUS		PSK2A	120	2600	AT3004D – Moscow – also 11.10. at 0816 utc
DK2OM	14260,0	vt	dly	10	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14260,0	---	--	10	UKR		A3E			female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine in Rivne
DK2OM	14260,9	0740	03	10	RUS		OFDM	35.5	2760	OFDM 60 – PSK4B – Moscow – also 17.10. at 0719 utc
DK2OM	14272,0	---	--	10	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14289,0	0909	03	10	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14295,0	vt	dly	10	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14295,0	ady	dly	10	TJK		A3E		9k	3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14306,0	1920	28	10	E		PSK8A	2400	6500	Stanag-4285 – DSB – 600 bps long – area of Santander – North Spain
DK2OM	14312,0	0904	03	10	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14336,0	0919	21	10	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14340,0	---	--	10	RUS		PSK2A	120	2600	AT3004D – Vladivostok with spurious emissions +/- 35 kHz and +/- 70 kHz - daily
DK2OM	14345,0	1010	11	10	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts – jumping – also 21.10.2017 at 0917 utc
DK2OM	14346,0	vt	dly	10	POR		FSK8	125	1750	ALE, "CT2IXQ" just for info – various times, daily
DK2OM	14348,0	vt	dly	10	THA	HS0ZEA	A1A			HS0ZEA beacon – 14347.950 kHz - every 5 minutes – daily - just for info!
DK2OM	14348,0	0944	22	10	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14351,6	---	--	10	E		OFDM PSK4A	30	2700	OFDM 73 + intro tone – HFD+VL - experimental transmissions – Las Palmas – just for info!
DK2OM	18080,0	0730	daily	10	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18100,0	vt	dly	10	MRC	no ITU	FSK8	125	1750	ALE, "A2" "A4" "A5" "A7" "S6" – "C3" "R3" "G401" "CD" "09" "G2" "LG6" "G301"

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										“ELJADIDNET4” - daily, various times
DK2OM	18106,0	vt	vd	10	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18106,2	vt	dly	10	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	18107,0	vd	vt	10	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18117,5	vt	vd	10	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	10	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	18150,0	---	--	10	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	vt	vd	10	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21000,0	---	--	10	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21002,2	---	--	10	SDN	!0000 !9999 !8888	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21030,0	1215	25	10	CYP		FMOP		40k	OTH radar – 12.5 sps
DK2OM	21096,0	vt	dly	10	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21096,0	vt	vd	10	G		FSK8	125	1750	ALE, “M1DFO” – just for info!
DK2OM	21134,0	0817	01	10	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	21145,0	vt	dly	10	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	10	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21166,0	0926	20	10	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 6 sec bursts
DK2OM	21190,0	0728	27	10	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow
DK2OM	21217,0	1035	21	10	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	21276,0	0855	04	10	CHN		FMOP		10k	OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	21307,0	0811	21	10	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	21325,0	0930	12	10	CHN		FMOP		10k	OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	21332,0	0850	04	10	CHN		FMOP		10k	OTH radar – 66.66 sps – 3.8 sec bursts - foghorn
DK2OM	21334,0	0914	16	10	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 3 sec bursts
DK2OM	21338,0	0712	15	10	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 6 sec bursts
DK2OM	21346,0	0840	01	10	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts - jumping
DK2OM	21352,0	0834	21	10	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 6 sec bursts
DK2OM	21353,0	0848	07	10	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 6 sec bursts
DK2OM	21362,0	0857	04	10	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 6 sec bursts
DK2OM	21369,0	0917	16	10	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 3 sec bursts
DK2OM	21372,0	0842	13	10	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts - jumping
DK2OM	21398,0	0846	25	10	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 6 sec bursts

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21400,0	---	--	10	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow
DK2OM	21405,0	0718	15	10	CHN		FMOP		10k	Chinese OTH radar – 42 sps – 6 sec bursts
DK2OM	21407,0	0829	21	10	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 10 sec bursts
DK2OM	21429,0	0835	13	10	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	21438,0	vt	vd	10	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	10	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	---	--	10	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	10	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	ady	dly	10	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28000,0	0907	21	10	RUS		F3E			RUS taxi
DK2OM	28015,0	1440	11	10	IRN		FMOP		50k	Iran radar bursts – 307 sps - jumping
DK2OM	28025,0	---	--	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28050,0	1442	11	10	IRN		FMOP		50k	Iran radar bursts – 307 sps - jumping
DK2OM	28051,5	1236	28	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28075,0	---	--	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28085,1	---	--	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28135,0	0825	21	10	RUS		F3E			Russian taxi
DK2OM	28146,0	vt	vd	10	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28190,0	0940	24	10	IRN		FMOP		50k	
DK2OM	28212,0	---	--	10	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28435,0	----	--	10	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28459,8	---	--	10	GAB		A3E		1060	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon - daily
DK2OM	28499,8	---	--	10	MEa		F1B	81.9	140	Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf
DK2OM	28746,5	---	--	10	GAB		A3E			carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28751,6	---	--	10	GAB		A3E		1080	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28960,0	0810	08	10	IRN		FMOP		50k	Iranian radar bursts – 150 and 313 sps – long lasting - daily
DK2OM	28960,0	0930	24	10	IRN		FMOP		50k	Iranian radar bursts – 150 and 106, 120, 125 sps – long lasting
DK2OM	29070,0	1022	24	10	IRN		FMOP		50k	Iranian radar bursts – 608 sps
DK2OM	29114,0	---	--	10	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29160,0	1021	24	10	IRN		FMOP		50k	

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	29215,0	0947	24	10	IRN		FMOP		50k	Iranian radar bursts – 307, 430 sps
DK2OM	29249,9	1239	28	10	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.880 kHz – Spain Fuerteventura - daily, all day
DK2OM	29375,0	---	--	10	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	10	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	10	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	---	--	10	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	10	G		F1B	81.9	140	Datawell-buoy “Waverider” – 29499.974 kHz- area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	10	MRC		F1B	81.9	140	Datawell-buoy “Waverider” – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	10	USA		F1B	81.9	140	Datawell-buoy “Waverider” – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29685,0	---	--	10	I		VFT		2300	Italian MIL – Brescia - daily
DK2OM	29699,5	---	--	10	I		VFT		1600	Italian MIL – Brescia - daily
DK2OM	50100,0	0706	02	10	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	2233	08	10	D		PSK8	German Navy- daily. Now nearly all day and night audible. Frequency not usable for HAMS.
IRTS	1911	1948-2010	24	10	HOL or MM		USB	2 Dutch fishermen with strong signals.
IRTS	3505	1845-1925	09	10	HOL or MM		USB	2 Dutch fishermen with motor noise from both ships in the background.
IRTS	3516	0752	27	10			USB	2 Japanese fishermen with a great signal. Becoming slowly a pest. Might not be fishing vessels but Japanese research ships operating along the Irish coasts
IRTS	3540	0441	15	10			USB	2 Japanese fishermen chatting somewhere in the North Atlantic around Ireland. Heard again at 0920z.
IRTS	3550	0642	09	10	F		AM	French HAMS still violating the band plan on a daily basis.
IRTS	3560	1808	31	10	E or MM		USB	2 Spanish fishermen. Fantastic signals.
IRTS	3570	0700	29	10	F or MM		USB	2 French fishermen with big signals. Also heard on 31 st at 0940z
IRTS	3589.3	0655	13	10	F or MM		USB	2 French fishermen. One name was Christian.
IRTS	3595	0652	13	10			USB	2 Japanese fishermen. Big signal.
IRTS	3595	0648	15	10			USB	2 Japanese fishermen, same as above. Huge signals. Heard again 0915z. Plenty of “dodo”. Also heard 17 th from 0938 to 0943z and on the 18 th at 0930z with big signals each time. Again

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
								on the 29 th from 0656z onwards.
IRTS	3640	0208	16	10			USB	The same Japanese fishermen as above. Still on at 0345z with a huge signal.
IRTS	5360	1800-1845	04	10	DNK		PSK8A	NATO. Legal primary user- NO INTRUDER, just for info.
IRTS	5360	1627	14	10	F or MM		USB	2 French fishermen with loud motor noise in the background of both ships.
IRTS	5360	0020	25	10	MRC or MM		USB	2 Moroccan fishermen
IRTS	5363	0945	17	10	DNK		PSK8A	NATO. Monster signal 59plusplus.Primary user. NO intruder- just for info.
IRTS	5400	1015-1025	01	10	F or MM		USB	2 French fishermen. Loud motor noise in background. Also heard on 10th at 1600z and 16th at 1215z.
IRTS	7050	1641	06	10	RUS/UKR		LSB	Rebroadcasting of a Russian propaganda programme. Huge signal.
IRTS	7055	1642	06	10	RUS/UKR		LSB	Ukrainian-Russian radio war. Agitprop and MX-almost daily. Big signal.
IRTS	7065	1640	06	10			LSB	Strong deliberate QRM directed against a Russian DXpedition.
IRTS	7097	0955-1041	13	10			PSK	Covering everything from 7095 to 7101 KHz. Huge signal. Probably RUS military. No HAM traffic possible.
IRTS	7115	0957-1010	13	10			PSK	Covering everything from 7110 to 7119 KHz. Monster signal . Looks like RUS military. No HAM traffic possible.
IRTS	7120	0400	11	10	SOM		AM	Radio Hargaysa. Daily from late afternoon to early evening and again from late night to early evening. Strong.
IRTS	7140	1528	02	10	ERI		AM	Radio Eritrea with white noise. Heard daily with massive signal during the afternoon and early evening.
IRTS	7180	1530	02	10	ERI		AM	Radio Eritrea. Daily. Sometimes with white noise from jamming out of ETH. A few times spotted slightly off its usual frequency on 7181.5 KHz.
IRTS	10103	1820	24	10			FMCW	Strong radar from 10103 to 10135 KHz.
IRTS	10130	1729	04	10			USB	Arab voices, short overs.
IRTS	10133	1754	04	10			FMCW	Strong radar from 10133 to 10162 KHz.
IRTS	10137	1518	16	10			FMCW	Radar from 10137 to 10161 KHz. Good signal.
IRTS	10150	1153-1315	19	10	E or MM		USB	2 Spanish fishermen with big signals. On and off.
IRTS	14100	1644	06	10	RUS/UKR		LSB	2.Harmonic of 7050 KHz.
IRTS	14192	1153	02	10	RUS		F1B	RUS Navy Kaliningrad. Heard daily during hours of daylight. Strong.
IRTS	14266	0944	31	10			PSK	Huge signal 59plus plus. No HAM traffic possible on and around the frequency. Probably RUS military.
IRTS	14295	1150	10	10	TJK		AM	3 rd Harmonic of Radio Tajikistan. All day during hours of daylight.
IRTS	14347	1250	22	10			FSK	Probably a North Korean embassy in West Africa
IRTS	18080	0700	05	10	TWN		AM	Voice of Hope. Daily. Sometimes with jamming from PRC.
IRTS	18157	1509	16	10			FMCW	Radar from 18157 to 18181 KHz. Strong.
IRTS	18158	1025	25	10			FMCW	Radar from18158 to 18178 KHz. Massive signals.
IRTS	18159	1012	27	10			FMCW	Radar from18158 to 18178 KHz. Very strong.
IRTS	18160	1206	02	10			FMCW	Strong radar from 18160 to 18188 KHz. Upper part of the HAM band unusable.
IRTS	21215	1025	04	10			FSK	Probably a North Korean embassy in West Africa.
IRTS	21219	1028	11	10			FMCW	Radar from 21219 to 21245 KHz. All frequencies unusable.
IRTS	21219.5	1440	24	10			FSK	Probably a NK embassy in West Africa.
IRTS	21238	1140	13	10			FMCW	Radar from 21238 to 21260 KHz. Big signal . No

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
								HAM traffic possible.	
IRTS	21238	1319	18	10			FMCW	Radar from 21238 to 21260 KHz	
IRTS	21311	1016	27	10			FMCW	Radar from 21311 to 21342 KHz	
IRTS	21351	0950	13	10			FMCW	Radar from 21351 to 21381 KHz.	

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

OEVSV – 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.	10115	1635	25	10			fmcw	20kHz	OTH radar S9+ pulsed 100mS
R.E.F.	10140	1630	25	10			fmcw	20kHz	OTH radar S9 pulsed 100mS
R.E.F.	14037.5	0754	27	10			USB	3kHz	Unident. lang.(Arabic?) non amateur trafic S7
R.E.F.	14113.5	0743	17	10			?	600Hz	Sound like tty at 2Hz, Idling, stopped à 07h45
R.E.F.	14160	0830	18	10			fmcw	20kHz	OTH radar S9 non pulsed
R.E.F.	18170	0749	26	10			fmcw	20kHz	OTH radar S9+ pulsed 50cps
R.E.F.	21076	0800	18	10			?	15kHz	Digital mod covering all digit modes
R.E.F.	21150	0755	19	10			fmcw	20kHz	OTH radar S9+ pulsed 20sps
R.E.F.	21180	0754	25	10			fmcw	20kHz	OTH radar S9+ pulsed 20sps
R.E.F.	21430	0754	25	10			fmcw	20kHz	OTH radar S8 pulsed 20sps
R.E.F.	21450	0837	31	10			fmcw	20kHz	OTH radar S9+ pulsed 10sps
R.E.F.	144400	0834	28	10			FM	12kHz	2h Private trafic on VHF band on center of France near Aydat lac (63) YL on mobile calling "Guillaume"

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3500	20.07	10	10	E		J3E-U			Spanish fishery
REP	3503	20.03	16	10	G	XSS	FSK-8			UK DHFCS NCS Forrest Moor sounding ALE
REP	3505	20.33	17	10	G	XSS	FSK-8			UK DHFCS NCS Forrest Moor sounding ALE
REP	3525	21.22	23	10	RUS		H2A	10		Enigma M01B, two tone CW msg
REP	3525	20.12	12	10	UKR		FSK	100	500	Ukranian military comms exercise CIS-11
REP	3544	20.48	12	10	UKR		FSK	75	250	Ukranian military comms exercise CIS-36
REP	3550	09.28	02	10	E		J3E-U			Spanish fishery
REP	3550	19.59	12	10	E		J3E-U			Spanish fishery, poor modulation, splattering
REP	3560	20.12	22	10	E		J3E-U			Fishery, CRY2000
REP	3560	07.37	09	10	E		J3E-U			Spanish fishery
REP	3568	07.36	09	10	G		FSK	75	850	NATO Stanag 4481 encrypted just FYI, legal
REP	3595	09.03	21	10	J		J3E-U			Japanese fishery in the Atlantic, strong, evdy
REP	3610	20.05	12	10	UKR		FSK	100	500	Ukranian military comms exercise CIS-11
REP	3617	20.10	12	10	UKR		FSK	75	250	Ukranian military comms exercise T206

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3640	12.28	31	10	G	XSS	FSK-8			UK DHFCS NCS Forrest Moor sounding ALE
REP	3673	09.50	23	10	HOL	PBK	J3E-U			Netherlands Coast Guard wx bulletin dutch
REP	3680	07.58	07	10	E		J3E-U			Spanish fishery
REP	3755	20.13	12	10	UKR		FSK	100	500	Ukrainian military comms exercise CIS-11
REP	6998	21.12	25	10	RUS		PSK2	120	3k	AT3004D modem, up to 7001.5kHz, Russia
REP	7000	07.52	06	10	E		J3E-U			Spanish fishery
REP	7000	07.43	09	10			J3E-U			Unid language comms, singing
REP	7000	09.10	13	10	B		J3E-U			Brazilian fishery
REP	7005	11.03	18	10			F1B	75	250	Encrypted
REP	7010	19.21	12	10	MRC		J3E-U			Fishermen
REP	7010	19.28	24	10		920004	FSK-8			Unid 92xx net sounding ALE
REP	7011	07.52	06	10	RUS		PSK2	120	3k	AT3004D Modem, encrypted comms Russia
REP	7013	20.38	20	10		209003	FSK-8			Unid net sounding ALE
REP	7020	23.15	05	10	RUS	V	A1A			BEACON ?
REP	7025	07.03	14	10	RUS		BPSK			AT3004D modem CIS12
REP	7038	23.00	04	10	UKR	D	A1A			SEVASTOPOL
REP	7038	23.48	06	10	RUS	P	A1A			MURMANSK
REP	7039	23.11	06	10	RUS	C	A1A			MOSCOW
REP	7039	22.37	03	10	RUS	M	A1A			MAGADAN ?
REP	7070	22.50	25	10		2208	FSK-8			Unid ALE sounding
REP	7070	05.14	20	10		20001	FSK-8			Unid "20001" "20002" sound ALE
REP	7070	08.17	17	10	MRC	2011	FSK-8			Morocco Defence Civile sounding ALE
REP	7120	19.13	17	10	SOM		8k00 A3EGN			Radio Hargaysa
REP	7130	19.18	03	10		220	FSK-8			Unid net sounding ALE
REP	7197	18.49	20	10	TUR	334018	FSK-8			Turkish Civil Defense sounding ALE
REP	10111	10.49	28	10			J3E-U			Arabic lang fishery
REP	10112	10.00	21	10	E		J3E-U			Fishery
REP	10115	18.43	16	10		1016	FSK-8			Unid 10xx, 20xx net sound ALE
REP	10125	12.05	19	10			F1B	50	200	Encrypted
REP	10125	17.01	08	10			FMCW	25	20	OTH radar 25sps/20kHz
REP	10130	09.10	11	10			MFSK			Mil-ALE 304003
REP	10136	07.45	18	10	ISR	AAA	FSK-8			Israely Air Force Tel Aviv sounding ALE dly
REP	10150	19.38	19	10			FMCW	50	20k	OTH radar
REP	14060	12.38	31	10	ISR	AAA	FSK-8			Israely Air Force Tel Aviv sounding ALE dly
REP	14060	08.49	02	10	ISR	773	FSK-8			Poss Israely AF, clg "727 ALE
REP	14141	09.51	14	10			J3E-U			Unid language fishery, strong motor noise
REP	14160	08.22	25	10			FMCW	50	18k	OTH radar
REP	14180	13.03	19	10	RUS		F1B	50	200	CIS36 – mil
REP	18070	15.22	02	10	CYP		FMCW	50	20k	OTH Radar
REP	18100	10.28	10	10	MRC	GS4 GS51	FSK-8			Morocco military net calling ALE
REP	21025	12.04	10	10			FMCW	50	20k	OTH radar
REP	28025	18.56	06	10	B		A3E			Brazilian CB'rs
REP	28035	16.00	20	10	B		A3E			Brazilian intruders
REP	28115	18.58	06	10	B		A3E			Brazilian CB'rs
REP	28145	10.01	08	10	RUS		F3E			Taxis, female dispatchers
REP	28165	09.53	20	10	RUS		F3E			YL taxis dispatcher

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000,0	0550-1405	24. 26.	10		UiMUX	PSK2	120	2600	
SRAL	7004,6	0820	26.	10		Uidotter	A1A			
SRAL	7006,0	1145-1330	19.	10		UiPTR	F1B		250	
SRAL	7006,5	0715	25.	10		UiPTR	F1B		250	
SRAL	7008,0	0805-1400	17. 29.	10		UiMUX	PSK2	120	2600	
SRAL	7008,5	1130-1140/	30.	10		UiMUX	PSK2	120	2600	
SRAL	7013,0	0700-0745/	17.	10		UiMUX	PSK2	120	2600	
SRAL	7013,0	1010	26.	10		UiCW	A1A			Fast MR
SRAL	7016,0	1130-1715	6. 11.	10		UiPTR	F1B		250	
SRAL	7018,62	1415-1830	6.	10		Uicarr/ PTR	F1B/ NON		250	
SRAL	7022,0	1000-1405	*	10		UiMUX	PSK2	120	2600	Days: 22. 24. 26.
SRAL	7024,0	1730	31.	10		UiPTR	F1B		250	
SRAL	7026,5	-0800/	26.	10		UiMUX	PSK2	120	2600	
SRAL	7044,0	1400-1411/	1.	10		UiPTR	F1B/ NON		250	
SRAL	7047,0	1445-1510/	26.	10		UiMUX	PSK2	120	2600	
SRAL	7049,0	1040	18.	10		UiPTR	F1B		200	
SRAL	7052,0	0710-0713/	25.	10		UiMUX	PSK2	120	2600	
SRAL	7057,0	0825-1002/	26.	10		UiMUX	PSK2	120	2600	
SRAL	7059,0	1025-1130/	30.	10		UiPTR	F1B		250	
SRAL	7061,0	1245-1330	24.	10		UiMUX	PSK2	120	2600	
SRAL	7076,0	1215-1240/	7. 29.	10		UiMUX	PSK2	120	2600	
SRAL	7110,0	1215-1240/	8.	10		UiPTR	F1B		250	
SRAL	7114,0	0815-1015	*	10		UiMUX	PSK2	120	2600	Days: 6. 13. 27.
SRAL	7116,1	0720	7.	10		UiCW	A1A			5F
SRAL	7120,0	/0330-0500	dly	10	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/1500-2000/	dly	10	SOM	R.Hargeis a	A3E			
SRAL	7122,0	1210-1320/	28.	10		UiPTR	F1B		250	
SRAL	7124,0	0900-1145/	3.	10		UiMUX	PSK2	120	2600	
SRAL	7127,0	0720-0830	7. 24.	10		UiCW	A1A			5F, 5BL
SRAL	7137,0	1715-1730	27.	10		UiPTR	F1B		200	
SRAL	7140,0	0300-0500	dly	10	ERI	VoBME	A3E			Jammed by ETH
SRAL	7140,0	1345-1835/	dly	10	ERI	VoBME	A3E			Jammed by ETH
SRAL	7141,0	0735-0755	30.	10		UiMUX	PSK2	120	2600	
SRAL	7149,5	1400-1415	13.	10		UiPTR	F1B		200	
SRAL	7154,5	1020-1055	30.	10		UiMUX	PSK2	120	2600	
SRAL	7162,0	0645-1500	*	10		UiPTR	F1B		250	Days: 18. 26. 30.

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7168,0	1315-1450	9.	10		IV4C	A1A			5F, 5BL
SRAL	7169,0	1440-1530	9.	10		XLTA	A1A			
SRAL	7169,0	0715-1015	*	10		UiPTR	F1B		200	Days: 17. 20. 28.
SRAL	7170,0	1035-1100	27.	10		Uicarr	N0N			
SRAL	7171,0	0740	30.	10		UiMUX	PSK2	120	2600	
SRAL	7172,0	1400-1415	9.	10	RUS	RGR74	A1A			
SRAL	7172,0	1100-1105/	27.	10		UiMUX	PSK2	120	2600	
SRAL	7176,0	1320	25.	10		UiPTR	F1B		250	
SRAL	7177,0	1340-1715	*	10		UiPTR	F1B		200	Days: 1. 24. 30.
SRAL	7180,0	0300-0500	1. – 11.	10	ERI	VoBME	A3E			Jammed by ETH
SRAL	7180,0	1430-1835/	1. – 11.	10	ERI	VoBME	A3E			Jammed by ETH
SRAL	7181,6	0300-0700	12. – 31.	10	ERI	VoBME	A3E			Jammed by ETH
SRAL	7181,6	1430-1835/	12. – 31.	10	ERI	VoBME	A3E			Jammed by ETH
SRAL	7190,5	1035	27.	10		Uicarr	N0N			
SRAL	7192,0	1420-1620/	1.	10		UiPTR	F1B		250	
SRAL	7192,5	0625-1415	13. 27.	10		UiMUX	PSK2	120	2600	
SRAL	7195,0	1315	9.	10		UiCW	A1A			Z-code, 5BL
SRAL	7196,0	0625	27.	10	RUS	RJF94	A1A			
SRAL	7198,0	1100-1330	*	10		UiMUX	PSK2	120	2600	Days: 11. 23. 30.
SRAL	7 MHz	0645-0730	6.	10		UiOTHR	FMCW			50Hz / 10 kHz
SRAL	7 MHz			10	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle.
SRAL	10129,0	1300-1525/	23.	10	CHN	UiOTHR	FMCW			18,75 Hz / 10 kHz, 4 sec burst 20 sec cycle
SRAL	10 MHz			10	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 24d)
SRAL	14003,0	1150	25.	10		UiPTR	F1B		250	
SRAL	14192,0	1100-1115	10.	10	RUS	UiPTR	F1B		200	
SRAL	14204,0	0710	17.	10		GDEH	A1A			5BL
SRAL	14221,0	0330-0600/	dly	10	KGZ	UiPTR	F1B		200	
SRAL	14266,0	0945-1020	17.	10		UiPTR	F1B		250	
SRAL	14268,0	0925-1115	3. 31.	10		UiMUX	PSK2	120	2600	
SRAL	14295,0	0330-1500	dly	10	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX
SRAL	14342,0	0945-1330	17. 24.	10		UiPTR	F1B		250	
SRAL	14344,0	1055-1155	24.	10		UiMUX	PSK2	120	2600	
SRAL	14 MHz			10	RUS	29B6	FMCW			50Hz / 15 kHz, (WebSDR 0d)
SRAL	14 MHz			10	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle.
SRAL	18080,0	0650-0700	24. 25.	10	TWN	VoAsia	A3E			
SRAL	18 MHz	0545-1410/	*	10	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, Days: 11. 13. 17. 22. 24. (WebSDR 17d)
SRAL	21 MHz	0545-	*	10	CYP /	UiOTHR	FMCW			25/50Hz / 20 kHz, Days:

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
		1410/			TUR					12. 19. 22. – 28. (WebSDR 9d)
SRAL	21438,0	0845-1045	*	10	RUS	RCV	A1A			Days: 19. 21. 24.
SRAL	24 MHz			10		UiOTHR	FMCW			(WebSDR 4d)
SRAL	28 MHz	0715-1130	*	10	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz – 300 kHz, days 11. 20. 22. 24. 28. 29.
SRAL	28960,0	0715-1130	*	10	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz, days: 6. 11. 20. 23. 24. 28. 29. 31.
SRAL	28 MHz			10		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 1d)
SRAL	28 MHz	0845-0900	21.	10	RUS	Taxi disp.	F3E			10 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m band informational only! - Co-Primary, shared with other also primary allocated services!										
USKA	3500.0	2114	23	10			J3E-U			English
USKA	3505.0	2234	09	10			J3E-U			English dialect
USKA	3524.0	2218	09	10			F1B	75	250	
USKA	3527.0	2059	02	10			F1B	50	200	daily
USKA	3538.0	2124	23	10			F1B	75	250	
USKA	3548.0	2101	02	10			F1B	50	200	
USKA	3549.0	2222	09	10			J7D	12x120	2k7	BPSK; CIS12
USKA	3549.0	2259	19	10			F1B	75	200	often
USKA	3549.0 VFO USB	2130	23	10			PSK8	2400	2k7	MIL188-110A (Hybrid), often preamble 4 tones, 450Hz spacing
USKA	3550.0	2104	02	10			J7D	12x120	2k7	BPSK; CIS12
USKA	3553.8	2106	02	10			PSK8	2400	2k4	Stanag 4285 often
USKA	3582.0	2257	19	10			J7D	12x120	2k7	BPSK; CIS12 often
USKA	3591.0	2119	23	10			J7D	12x120	2k7	QPSK; CIS12
USKA	3642.5	2109	02	10			DQPSK	14x75	5k9	LINK 11 CLEW; often ISP or DSP Mode
USKA	3642.5	2109	02	10			DQPSK	14x75	5k9	LINK 11 CLEW; often ISP or DSP Mode
USKA	3705.0	2206	27	10			J7D	12x120	2k7	BPSK; CIS12
USKA	3759.0	0709	12	10			J7D	12x120	2k7	QPSK; CIS12
USKA	3774.0	2231	09	10			J7D	12x120	2k7	BPSK; CIS12
USKA	3797.0	2113	02	10		RCV	A1A	21 wpm		letters and figures
USKA	7016.0	2155	11	10			F1B	75	250	
USKA	7030.0	1036	30	10			J7D	12x120	2k7	BPSK; CIS12 (weak)
USKA	7037.5	1701	10	10			J7D	12x120	2k7	BPSK; CIS12
USKA	7059.0	0831	30	10			F1B	75	250	
USKA	7111.0	2126	19	10			F1B	75	250	
USKA	7120.0	1817	30	10	SOM		A3E			BC; Radio Hargaysa almost daily
USKA	7135.0	2202	11				FMCW		30k	
USKA	7137.0	2110	23	10			F1B	50	200	
USKA	7139.0 VFO USB	2200	11	10		var	F1B	100	170	CODAN Selcall
USKA	7140.0	1509	02	10			A3E			BC; massively jammed often
USKA	7140.0	1509	02	10					~ 10k	Jammer, white noise often

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7142.0 VFO USB	2157	11	10		var	F1B	100	170	CODAN Selcall
USKA	7154.5	0820	30	10			J7D	12x120	2k7	BPSK; CIS12
USKA	7176.0	1820	30	10			F1B	75	200	
USKA	7177.0	1505	02	10			F1B	50	200	
USKA	7180.0	1502	02	10					~ 10k	Jammer, white noise, heavy
USKA	7181.5	1501	02	10	ERI		A3E		~8k	BC, massively jammed; often
USKA	7197.0	2132	19	10		319013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2144	19	10		358018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2145	19	10		315013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2153	19	10		302018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2158	19	10		348013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2200	19	10		309018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2211	19	10		306013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2213	19	10		332018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	14103.0	0832	27	10			FMCW	var	10k	OTHR, Burst system; various sweep rates: 41/51/66.66 sps
USKA	14160.0	1106	11	10			F1A		250	some short cw, with q-codes
USKA	14160.0	1107	11	10			F1B	75	250	often
USKA	14192.0	1506	02	10			F1B	50	200	almost daily
USKA	14242.0	0817	11	10			J7D	12x120	2k7	BPSK; CIS12
USKA	14259.0 VFO USB	0721	17	10			OFDM6 0	30	2k7	PSK4 modulated often Tone spacing 44.45Hz
USKA	14259.0 VFO USB	0726	17	10			OFDM6 0	35.56	2k7	PSK8 modulated often Tone spacing 44.45Hz
USKA	14259.0	0734	17	10			J3E-U		2k4	Russian
USKA	18107.0	0654	10	10		RDL	F1B	36 + 50	200	CIS 36-50 often
USKA	18107.0	0856	30	10		RDL	F1A		200	groups of five often
USKA	21140.0	1102	11	10			FMCW	50 sps	20k	OTHR
USKA	21438.0	0953	27	10		RCV	A1A			letters and figures often
USKA	21450.0	0659	10	10			?		7.6k	unident digital emission
USKA	28960.0	0855	11	10			FMOP	150+313	~50k	OTHR

Veron – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3524,0	19.56	11	10		UiPTR	F1B		Ptr
VERON	3525,0	18.09	5	10	CIS	Y8IY	A1A		Calls to: D4XC PSTL FRHN CBAD
VERON	3547,5	18.07	3	10	CIS	UiCW	A1A		5BL
VERON	3548,0	18.00	23	10	CIS	UiPTR	F1B		Revs/Ptr
VERON	3549,0	17.55	23	10		UiPTR	F1B		Ptr
VERON	3552,0	18.07	5	10	CIS	UiPTR	F1B		Revs/Ptr
VERON	3568,0	19.55	11	10		UiPTR	F1B		Ptr
VERON	3578,0	18.35	15	10		UiPTR	F1B		Ptr
VERON	3586,0	19.25	3	10		UiPTR	F1B		Ptr
VERON	3710,0	17.58	5	10		UiPTR	F1B		Ptr
VERON	3748,0	17.56	5	10		UiPTR	F1B		Ptr
VERON	3797,0	20.07	11	10	RUS	RCV	A1A		RIC87 de RCV QTC Prip Noworossijsk
VERON	7050,0	13.28	19	10	RUS/UKR	UiBc	J3E-l		Private war?; S5
VERON	7068,0	17.49	23	10		UiPTR	F1B		Ptr
VERON	7114,0	18.35	29	10		UiPtr	F1B		Ptr
VERON	7114,0	18.22	28	10		UiPtr	F1B	200	
VERON	7137,0	17.48	23	10		UiPTR	F1B		Ptr
VERON	7180,0	15.45	29	10	ETH	NON	Jam	14k	White noise jammer; S8
VERON	7195,0	13.45	28	10		Stanag			
VERON	10131,0	13.54	5	10		UiPtr	F1B	200	

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	14101,0	11.18	18	10	Maroc	UiILL	j3e-u		Maroc fishery
VERON	14101,0	08.01	23	10	Maroc	UiILL	j3e-u		Maroc fishery
VERON	14192,0	10.11	25	10	RUS	UiPtr	F1B		Ptr
VERON	14192,0	13.20	19	10	RUS	UiPtr	F1B	200	Very bad modulation; splattering
VERON	14192,0	11.05	28	10	RUS	UiPtr	F1B	200	Printer idling
VERON	14192,0	09.35	3	10	CIS	UiPTR	F1B		Revs/Ptr
VERON	14266,0	09.45	17	10		UiPTR	F1B		Ptr
VERON	18064,0	13.08	19	10		UiRadar	FMCW	20k	OTHR; 10 sps
VERON	18107,0	12.56	5	10	RUS	UiPtr	F1B	200	
VERON	18107,0	10.00	10	10	CIS	UiPTR	F1B		Revs/Ptr
VERON	18107,0	10.17	10	10	RUS	RDL	F1A		RDL 51526 49178 k (is allowed)
VERON	18107,1	12.17	25	10	RUS	UiPtr	F1B	200	
VERON	21031,0	12.10	25	10		UiRadar	FMCW	40k	OTHR; 10 sps; S9+
VERON	21211,0	10.16	7	10	Maroc	UiILL	j3e-u		Maroc fishery
VERON	21309,0	12.53	5	10		UiRadar	FMCW	20k	OTHR; 10 sps
VERON	21438,0	09.20	20	10	RUS	RCV	A1A		RBE86 DE RCV QTC 670 34 16 1320 670
VERON	21438,0	09.20	20	10	RUS	RCV	A1A		BT NAWIP 038 (etc)
VERON	21438,0	11.54	9	10	RUS	RCV	A1A		RCIZ de RCV QSA 2 QRV k

The monitoring team of IARU Region 1

credits:

Wavecom Elektronik – Buelach – Switzerland

All HAMS, friends and contributors worldwide!

Many thanks for your interest!

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