



Monitoring System

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The monthly newsletter for Region 1

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The 30 members of the IARUMS Region 1 Monitoring Team:



Acknowledgements

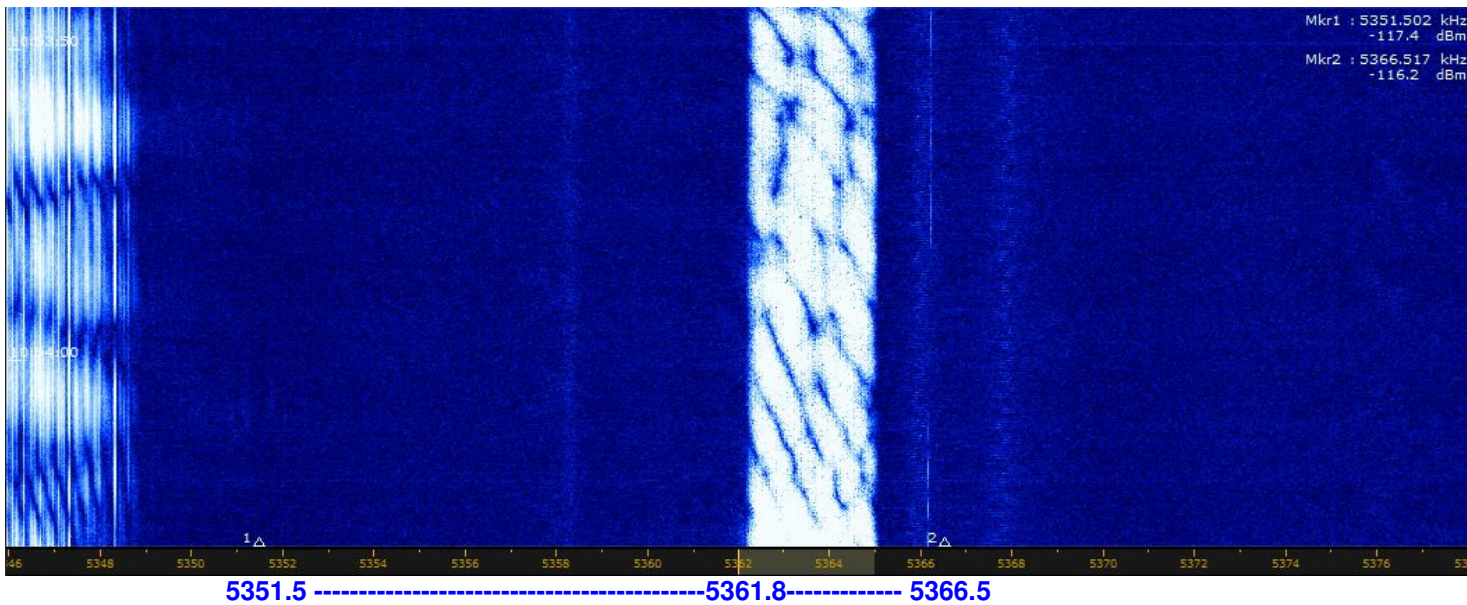
ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4BV - Kamweti ++ DARC: DK2OM – Wolf ++ EARS: A61M – Obaid ++ ERASD: SU1SA – Sayed ++ HRS: 9A5DGZ – Gianluca ++ IARC: 4Z1AB – Amos ++ IRTS: EI3GYB - Michael KARS: 9K2RR – Faisal ++ MARL: 9H1M – Dominic ++ MRASZ: HA7PL - Laci ++ NARS: 5N9AYM – Yusuf ++ 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 members:** YO9RIJ – Petrica ++ ASTRA - DL1BDF - Mustapha ++ PTTs: BAKOM (Swiss) ++ OFCOM (UK) ++ Dutch AT ++ Austrian PTT

Part 1: News and Infos

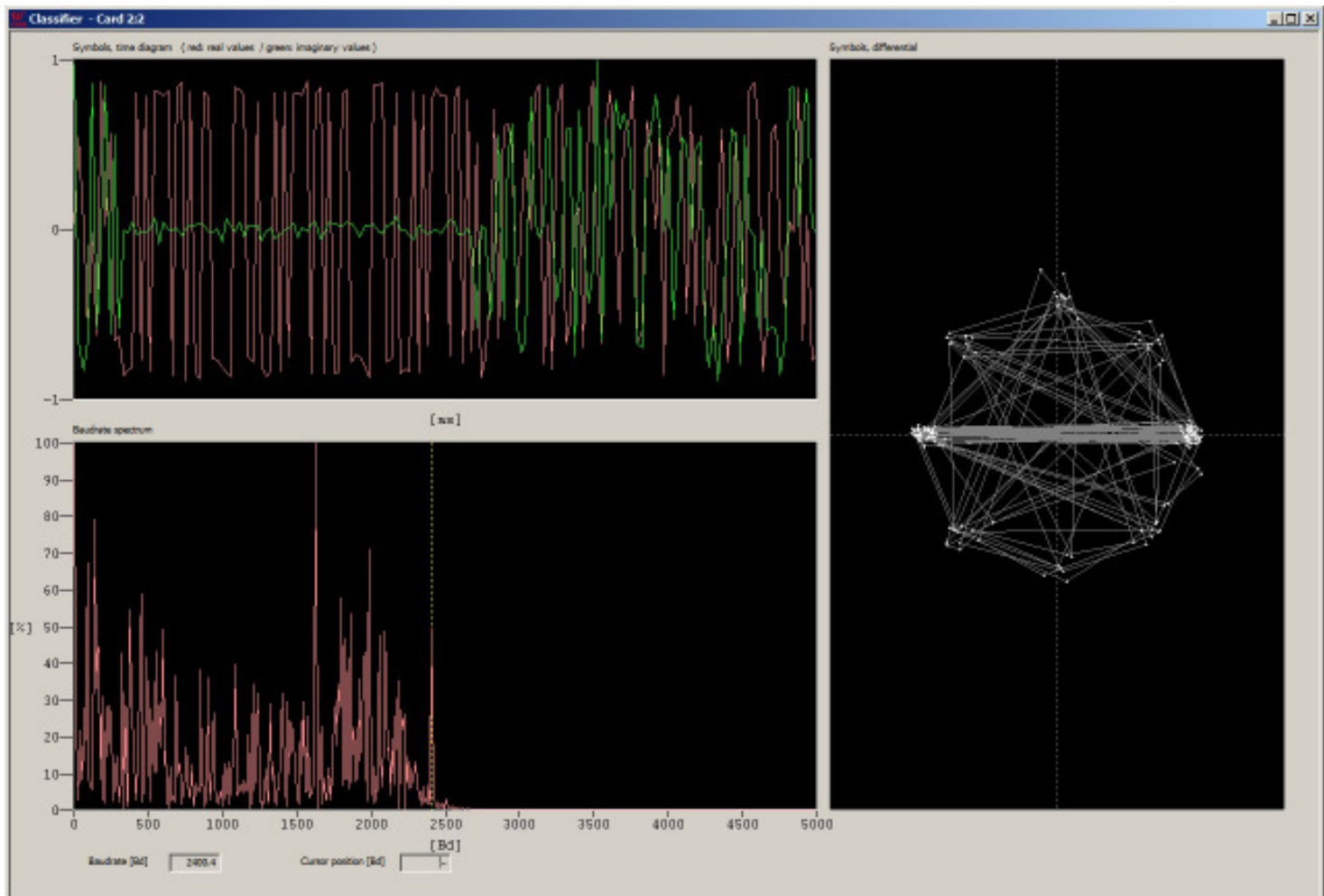
1. 5361.8 kHz (RF QRG) – primary user from Denmark – legal operation!

A Stanag-4285 MIL-system appeared on our narrow band for few days. The system was operated by the Danish Navy in Aarhus. The transmissions were stopped on Aug. 28th. Many thanks to the Danish Navy for leaving this frequency! **Please observe: The Danish Navy is a primary user! We have to respect primary users!**

Screenshot by DK2OM on August 18th at 1257 UTC showing the situation on 5361.8 kHz RF.

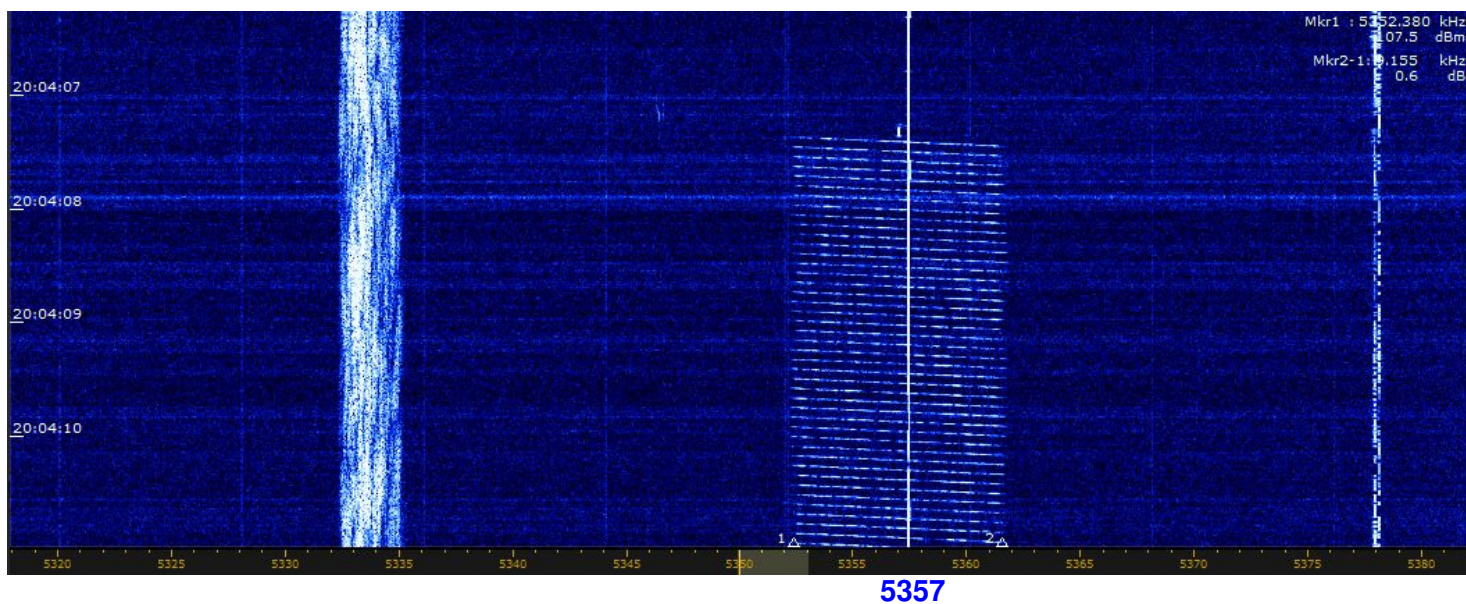


The Stanag-4285 on 5361.8 kHz analysed by Wavecom W-Code. Parameters: PSK 8A – 2400 Bd – 2400 Hz shift 600 bps long and encrypted – screenshot: DK2OM



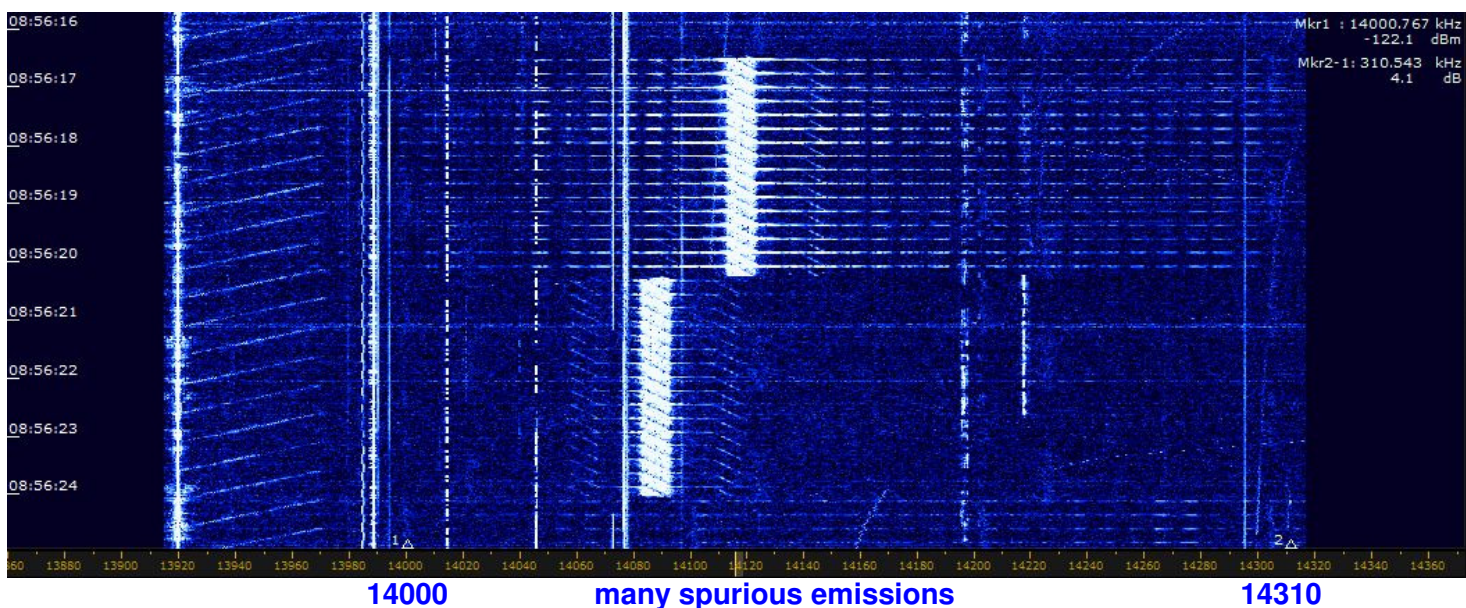
2. Australian OTH Radar Jorn on 5357 kHz – primary user

The Australian OTH Radar Jorn was active on 5357 kHz on Aug. 7th at 2004 UTC. Parameters: FMOP - 10 sps
10 kHz wide – observe the intro tone!



3. Chinese OTH Radars on 14 and 21 MHz

We found several Chinese OTH Radars on 14 and 21 MHz, well known as “foghorns”. Parameters: 50 and 66.66 sweeps/sec and 10 kHz wide, in burst mode and often jumping – screenshot below by DK2OM – Aug. 1st at 0856 UTC



4. Monitoring on 28 MHz

Sporadic E-conditions allowed monitoring on 28 MHz from time to time. So we were not surprised to find again many illegal transmissions by fishery driftnet buoys. Locations: Atlantic Ocean and Mediterranean Sea. Russian and (or) CIS taxis were still abusing our band in F3E (FM).

5. Miscellaneous or bad news:

- 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 burst mode - daily

- 6. Homepage IARU Region 1 <http://www.iaru-r1.org/>
- 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)

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE	Details
ARSK	7000,00	vt	near dly	8	Kenya	?	J3E-1	Swahili message net
ARSK	7120,00	vt	dly	8	Rep.of Somalia	Hargeisha	A3E	Broadcast
ARSK	7140,00	p.m.	occasional	8	Ethiopia?	?	A3E	Jammer
ARSK	7165,00	vt	occasional	8	?	?	"OTHR"	OTHR
ARSK	7180,00	vt	near dly	8	Eritrea	?	A3E	Broadcast

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

DG0JBJ (Mario) observed **3** OTH radars on 40 m, **0** OTH radars on 20 m, **42** OTH radars on 17m, **11** OTH radars on 15 m and **8** OTH radars on 10 m in August 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	1918	09	08	D		QRM			3.5 - 50 MHz intentionally disturbed by a neighbouring LED lamp – daily - various times
DK2OM	1812,0	2010	05	08	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS3-/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	1942	29	08	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	1941	29	08	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1876,0	1940	29	08	I	IQN	USB			Lampedusa Radio, weather reports - daily
DK2OM	1888,0	1940	29	08	I	IPD	USB			Civitavecchia Radio, weather reports - daily
DK2OM	1896,5	ady	dly	08	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	1941	29	08	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3500,0	1918	09	08	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9
DK2OM	3503,5	vt	dly	08	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3520,0	1835	20	08	E		USB			Spanish fishery
DK2OM	3525,0	---	--	08	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										of Marseille – legal!
DK2OM	3527,0	2055	07	08	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	2015	03	08	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	1840	21	08	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3550,0	0730	dly	08	F		A3E			French amateurs not respecting bandplans - daily
DK2OM	3550,0	vt	vd	08	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,7	--	--	08	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation!
DK2OM	3553,8	ady	dly	08	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3559,0	1934	22	08	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3560,0	2014	31	08	E		USB			Spanish fishery
DK2OM	3564,0	1936	22	08	BLR		F1B	81	250	system 81-81 - Minsk
DK2OM	3576,6	ady	dly	08	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3585,0	ady	dly	08	TWN	HLL	FIC		800	WX-fax Taiwan - 120 rpm, IOC 576, - daily, all day - legal!
DK2OM	3586,0	1800	dly	08	G		PSK2A	40	40	encrypted – every evening Great Britain – purpose unknown
DK2OM	3587,0	vt	vd	08	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3593,7	---	--	08	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	---	--	08	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	08	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	08	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3594,2	---	--	08	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	08	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	vt	dly	08	SUI		FSK8	125	1750	ALE, “HB9MHB - just for info!
DK2OM	3596,0	vt	dly	08	J		FSK8	125	1750	ALE, “JH1ESB” – just for info!
DK2OM	3617,0	vt	dly	08	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	08	J	JMH	FIC		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3642,0	ady	dly	08	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3649,0	vt	vd	08	ALG	no ITU	FSK8	125	1750	ALE, “BI20” PA20”
DK2OM	3718,0	vt	vd	08	FEa	7CJK	A1A			loop “7CJK”
DK2OM	3720,0	vt	dly	08	S		FSK8	125	1750	ALE, “YU” “YT” “YV” “DZ” – Swedish MIL
DK2OM	3756,0	2000	dly	08	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	08	FEa	RIS9	A1A			“M8JF de RIS9” - loop
DK2OM	3772,0	ady	dly	08	FEa	A4JC	A1A			“A4JC” - loop
DK2OM	3777,0	vt	dly	08	FEa		A1A			“M8JF de RIS9” – loop – dly
DK2OM	3791,0	vt	vd	08	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – daily - just for info!
DK2OM	3797,0	ady	dly	08	FEa		A1A			“M8JF de RIS9” – loop
DK2OM	5350,0	1925	25	08	E		USB			Spanish fishery – splattering up - just for info
DK2OM	5351,5	1918	09	08	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	5352,9	1820	28	08			N0N			carrier – long lasting
DK2OM	5357,0	2000	07	08	AUS		FMOP		10k	OTH radar Australia – intro tone – 10 sps
DK2OM	5361,8 RF	1028	18	08	DNK		PSK8A	2400	2400	Stanag-4285 – 600 bps long – Danish Navy Aarhus - legal – primary user ! – finished 28.08.2017
DK2OM	6998,5	--	--	08	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	1918	09	08	D		QRM			intentionally disturbed by a neighbouring LED lamp
DK2OM	7001,5	--	---	08	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	08	ALB	no ITU	FSK8	125	1750	ALE, “RS0” - Tirana
DK2OM	7018,0	---	--	08	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7020,0	vt	vd	08	ALB		FSK8	125	1750	ALE, “CS004A” “RS004D” “CS004” - daily
DK2OM	7020,0	1546	11	08	RUS		F1B	75	250	Penza
DK2OM	7026,0	1954	03	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	7027,5	---	--	08	UKR	„V“	A1A			beacon “V” – Kyiv
DK2OM	7030,0	1730	06	08	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7030 – 7062 kHz
DK2OM	7030,0	1930	14	08	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7030 – 7062 kHz
DK2OM	7039,0	---	--	08	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	7039,2	---	--	08	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	----	--	08	RUS	D	A1A			Cluster beacon D Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” - daily
DK2OM	7039,4	ady	dly	08	RUS	M	A1A			Cluster beacon M – Magadan RUS Navy – „RTS“
DK2OM	7040,0	ady	dly	08	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,5	vt	dly	08	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7047,37	vt	vd	08	D		FSK8	125	1750	ALE, “DL0NOT” – just for info!
DK2OM	7049,5	vt	dly	08	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	vt	dly	08	RUS UKR		LSB			music transmissions – private war ?
DK2OM	7050,0	vt	dly	08	KGZ		FSK8	125	1750	ALE, “X” “810” “820615” “810698” – Kyrgyzstan MIL
DK2OM	7054,0	1927	14	08	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7054 – 7086 kHz
DK2OM	7070,0	vt	vd	08	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7088,0	1827	07	08	RUS		F1B	75	200	Severomorsk
DK2OM	7088,8	1756	02	08	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	08	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus
DK2OM	7091,5	---	--	08	KAZ	„V“	A1A			7091.543 kHz - loop with spurious – ident “V” – Almaty - Kazakhstan
DK2OM	7099,5	vt	dly	08	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7102,0	vt	dly	08	TWN		FSK8	125	1750	ALE, "BV4AS" – just for info!
DK2OM	7102,0	vt	vd	08	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, "9A3MIL" "9A2KS" "HB9MHB" "9A0ZG" "9A4OS" "DK0ESD" – just for info!
DK2OM	7102,0	vt	dly	08	J		FSK8	125	1750	ALE, "JH1ESB" – just for info!
DK2OM	7110,0	vt	dly	08	HRV	9A0ALE	FSK8	125	1750	ALE, "9A0ALE" – just for info
DK2OM	7112,0	1740	14	08	RUS		PSK2A	120	2600	AT3004D - Smolensk
DK2OM	7117,0	---	--	08	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	08	SOM		A3E		9k	Radio Hargaysa – Somalia – daily – even audible in Australia and Japan
DK2OM	7122,0	1432	15	08	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7137,0	vt	dly	08	TWN		FSK8 LSB	125	1750	ALE, "DEGDG" "DRYHD" "DCOY" "DSQLK" "DEIQW" "DETWY" Taiwanese navy – daily
DK2OM	7140,0	1615	10	08	ERI ETH		A3E		9k	Radio Eritrea disturbed by Radio Ethiopia by white noise emissions
DK2OM	7155,0	1819	16	08			FMOP		32k	Codar like ocean surface radar 2.6 sps – 7155 – 7187 kHz
DK2OM	7180,0	1615	10	08	ERI ETH		A3E		9k	Radio Eritrea disturbed by Radio Ethiopia by white noise emissions
DK2OM	7183,0	vt	dly	08	SUI		FSK8	125	1750	ALE, "HB9MHB" – just for info!
DK2OM	7184,0	0845	04	08	RUS		PSK2	120	2600	AT3004D – submode idle – Russian ship Baltic Sea
DK2OM	7185,5	vt	dly	08	D HRV		FSK8	125	1750	ALE, "9A5EX" "DK0ESD" just for info - daily
DK2OM	7188,0	1440	15	08	RUS		PSK2A	120	2600	AT3004D – Rostov na Donu
DK2OM	7198,0	1835	21	08	RUS		PSK2	120	2600	AT3004D – submode idle - Severomorsk
DK2OM	10100,8	ady	dly	08	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	08	SNG	no ITU	FSK8	125	1750	ALE, "CN6" "68" – Singapore Navy - Changi Naval Base
DK2OM	10112,0	---	--	08	I		PSK8A	2400	2400	Stanag-4285 – 600 bps long – area of Rome - daily
DK2OM	10113,0	vt	vd	08	TUN	no ITU	FSK8	125	1750	ALE, "TUD" "STAT5" "STAT154"
DK2OM	10114,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "BSF" "ZEN" "CM2OR2"
DK2OM	10114,8	0640	dly	08	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	08	MRC	no ITU	FSK8	125	1750	ALE, "100" "114" "203" "XXZ" – Western Sahara
DK2OM	10116,5	---	--	08	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "CM6" "01012016"
DK2OM	10123,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "CM3" "COF" "BSF" "CM2" "ESA" – Algerian Airforce
DK2OM	10129,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "CM1" "CTF" "772"
DK2OM	10136,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "CM3" "BLD" "CNC" "TF2"
DK2OM	10144,0	ady	dly	08	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,5	vt	dly	08	J	JH1ESB	FSK8	125	1750	ALE, "JH1ESB" - just for info - daily
DK2OM	10145,5	vt	dly	08	TWN AUS	BV4AS	FSK8	125	1750	ALE, "BV4AS" "VK4SAA"– just for info!
DK2OM	14000,0	1918	09	08	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14018,5	0846	01	08	FEa		F1B	600	600	DPRK-FSK 600
DK2OM	14100,0	vt	dly	08	ALG	no ITU	FSK8	125	1750	ALE, "6206" "6204" "6212" "6202" "6203" "6207" "6217" "MTL" "IJ" – Mauritanian border – daily, all day
DK2OM	14100,0	1918	09	08	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9
DK2OM	14108,0	1033	21	08	RUS	DJQU	A1A			RUS MIL - area of Moscow – many spurious emissions
DK2OM	14109,0	vt	dly	08	TWN	HAM	FSK8	125	1750	ALE, "BV4AS" – daily - just for info!
DK2OM	14109,0	vt	dly	08	INS	HAM	FSK8	120	1750	ALE, "YD00XH" – just for info!
DK2OM	14109,0	vt	dly	08	S HRV D		FSK8	125	1750	ALE, "SM3FXL" "9A4OS" "9A3BRV" "DK0ESD" - just for info!
DK2OM	14109,0	vt	vd	08	J		FSK8	125	1750	ALE, "JH1ESB" – just for info
DK2OM	14110,0	1446	03	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14118,0	0840	01	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14121,0	0946	26	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 7.6 sec bursts
DK2OM	14150,0 RF	1413	14	08	IND		PSK4A	75	2250	PRC4+4 – (8 x 75 Bd) - CHN ship – Indian Ocean
DK2OM	14153,5	1426	14	08	RUS		F1B	600	600	DPRK-FSK 600 – DPRK emba Moscow
DK2OM	14160,0	vt	dly	08	MRC		FSK8	125	1750	ALE, "9204" "9228" "9236"
DK2OM	14160,0	0838	02	08	RUS		PSK2	120	2600	AT3004D – submode idle - Sevastopol
DK2OM	14171,0	1211	14	08	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14177,0	1015	06	08	RUS		F1B	75	500	ship – area of Astrakhan
DK2OM	14192,0	vt	vd	08	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14201,8	0927	03	08	CHN		PSK2	75	2200	PRC 16 tone modem – RF 14200.0 kHz - China – Shanghai - daily
DK2OM	14212,0	---	--	08	UKR		A3E			female voice with encrypted msgs – figures – "SZRU" = Foreign Intelligence Service of Ukraine in Rivne – heard by MOODV
DK2OM	14221,0	2035	04	08	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily – – mostly idling
DK2OM	14227,0	0957	26	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14243,5	0849	01	08	FEa		F1B	600	600	DPRK-FSK 600
DK2OM	14260,0	vt	dly	08	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14260,9	0850	03	08	RUS		OFDM	35.55	2760	OFDM 60 – PSK8B - Moscow
DK2OM	14272,0	---	--	08	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14277,0	0856	02	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14295,0	vt	dly	08	SRB	YU1BI	FSK8	125	1750	ALE, "YU1BI" – just for info!
DK2OM	14295,0	ady	dly	08	TJK		A3E		9k	3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14324,0	0924	04	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts – also 25.08.2017 at 0757 utc
DK2OM	14325,0	0901	27	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 63 sps – 3.8 sec bursts
DK2OM	14328,0	1439	03	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14330,0	0808	13	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts -

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										jumping
DK2OM	14330,0	0908	27	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	14338,0	0940	21	08	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts - jumping
DK2OM	14340,0	---	--	08	RUS		PSK2A	120	2600	AT3004D – Vladivostok with spurious emissions +/- 35 kHz and +/- 70 kHz - daily
DK2OM	14346,0	vt	dly	08	POR		FSK8	125	1750	ALE, “CT2IXQ” just for info – various times, daily
DK2OM	14348,0	vt	dly	08	THA	HS0ZEA	A1A			HS0ZEA beacon – 14347.950 kHz - every 5 minutes – daily - just for info!
DK2OM	14351,6	---	--	08	E		OFDM PSK4A	30	2700	OFDM 73 + intro tone – HFD+VL - experimental transmissions – Las Palmas – just for info!
DK2OM	18080,0	0730	daily	08	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18100,0	vt	dly	08	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	08	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18106,2	vt	dly	08	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	18107,0	vd	vt	08	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18117,5	vt	vd	08	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	08	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	18150,0	---	--	08	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	vt	vd	08	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21000,0	---	--	08	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,0	1918	09	08	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9
DK2OM	21002,2	---	--	08	SDN	!0000 !9999 !8888	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21096,0	vt	dly	08	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21096,0	vt	vd	08	G		FSK8	125	1750	ALE, “M1DFO” – just for info!
DK2OM	21145,0	vt	dly	08	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	08	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21400,0	---	--	08	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow
DK2OM	21431,0	0856	30	08	CHN		FMOP		10k	OTH radar – 66 sps – 3.8 sec bursts
DK2OM	21433,0	0819	25	08	CHN		FMOP		10k	OTH radar – 66 sps – 7.6 sec bursts - foghorn
DK2OM	21438,0	vt	vd	08	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21446,0	ady	dly	08	THA	HSOZEA	A1A			HSOZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	---	--	08	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	1925	05	08	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	ady	dly	08	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28000,0	1918	09	08	D		QRM			intentionally disturbed by a neighbouring LED lamp with S9
DK2OM	28000,0	vt	vd	08			unid			mysterious and unstable oscillations – QTE 220 °
DK2OM	28000,0	1342	03	08	I		USB			Italian pirates
DK2OM	28000,0	0836	24	08	F		USB			French CBers – roger beep
DK2OM	28000,0	0742	25	08	RUS		F3E			RUS taxi
DK2OM	28000,0	1352	27	08	CIS		F3E			pirates in Russian voice – roger beep
DK2OM	28005,0	1653	19	08	RUS		F3E			RUS taxi - Kaluga
DK2OM	28025,0	---	--	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28030,0	1351	03	08	I		USB			Italian pirates – roger beep
DK2OM	28075,0	---	--	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28085,1	---	--	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28100,0	1358	03	08	I		USB			Italian pirates – roger beep
DK2OM	28146,0	vt	vd	08	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28195,0	1720	19	08	RUS		F3E			RUS taxi
DK2OM	28235,0	1728	19	08	RUS		F3E			RUS taxi - daily
DK2OM	28275,0	---	--	08	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28435,0	----	--	08	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28459,8	---	--	08	GAB		A3E		1060	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon - daily
DK2OM	28499,8	---	--	08	MEa		F1B	81.9	140	Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf
DK2OM	28746,5	---	--	08	GAB		A3E			carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28751,6	---	--	08	GAB		A3E		1080	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28960,0	1235	03	08	IRN		FMOP		50k	Iranian radar bursts – 150 and 313 sps – long lasting - daily
DK2OM	29114,0	---	--	08	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	---	--	08	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.880 kHz – Spain Fuerteventura - daily, all day
DK2OM	29375,0	---	--	08	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	08	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW coast, close to Pakistan - daily,

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										all day
DK2OM	29400,0	---	--	08	USA		F1B	81.9	140	Datawell-buoy "Waverider" – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	---	--	08	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	08	G		F1B	81.9	140	Datawell-buoy "Waverider" – 29499.974 kHz- area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	08	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	08	USA		F1B	81.9	140	Datawell-buoy "Waverider" – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29685,0	1350	03	08	I		VFT		2300	Italian MIL – Brescia - daily
DK2OM	29699,5	1350	03	08	I		VFT		1600	Italian MIL – Brescia - daily
DK2OM	50100,0	1918	09	08	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	10123 - 10147	1347	03	08			FMCW	Strong radar destroying any reception.
IRTS	1812	0307	11	08	RUS		USB/LS B	RUS navy, Kaliningrad. Heard often late at night.
IRTS	1844	0355 to 0420 and again from 0445 to 0530	27	08	E or MM		USB	2 Spanish fishermen having a long chat.
IRTS	1896.5	0257	06	08	D		PSK8	German navy. Daily all night with a huge signal Frequency not usable.
IRTS	3535	0744-0755	01	08	UK		USB	2 English fishermen. Both having an Essex accent. Talking about moving gear around.
IRTS	3535	0931-0935	02	08	IRL or MM		USB	2 Irish fishermen. Ulster accent. Female VHF traffic in the background of one of them. One of the men is called Martin. "See you later!"
IRTS	3550	0531	04	08	F		AM	French Hams still violating the band plan. Heard nearly every day.
IRTS	3552	0605	09	08	E or MM		USB	2 Spanish fishermen chatting
IRTS	3552	0820	21	08	E or MM		USB	2 Spanish fishermen chatting.
IRTS	3560	0618	15	08	E or MM		USB	2 Spanish fishermen. Huge signals. Loud motor noise from one of the ships.
IRTS	3570	0905	08	08	IRL		USB	2 Irish fishermen. Galway accent. Names are Mick and Jack. Loud motor noise from both of them. "Get the grub and I'll talk to you later or this evening!" They end the conversation at 0918.
IRTS	3615	1427	06	08	POR or MM		USB	2 Portuguese fishermen. Loud motor noise from both ships. Great signals.
IRTS	3657	0603	24	08	E or MM		USB	2 Spanish fishermen. Exchange of positions and a lot of chat.
IRTS	3670	0912-0940	01	08	HOL or MM		USB	2 Dutch fishermen. One of them has very loud motor noise in the background. They talk about stuff on e-bay.
IRTS	3678	0849-0907	01	08	F or MM		USB	2 French fishermen. One of them has bad audio. The other has a clear and loud signal with motor

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
								noise and seagulls in the background.
IRTS	3675.3	1709	16	08	UK		USB	2 UK fishermen. Big signal from one of them with loud motor noise, the other one is much weaker. "I'll see you in the morning" at 1721z.
IRTS	3686	0928	01	08				Encrypted voice communication in CRY2001.
IRTS	3700	0505	02	08	POR		LSB	A Portuguese Ham keeps playing sad Portuguese songs and runs endless monologues.
IRTS	3723.5	0627 to 0650	29	08	UK or MM		USB	2 English fishermen. Big signals from both ships. VHF traffic in the background at one ship. Plenty of foul language. "Fucking fish...fucking boat....fucking hell"
IRTS	3734.5	2334	26	08	E or MM		USB	2 Spanish fishermen. Huge signals from both ships. One station has loud motor noise in the background.
IRTS	3734.7	0935 to 0950	28	08	E or MM		USB	2 Spanish fishermen. One is called Carlos, the other one is called Jose. Monster signals from both ships. Loud motor noise from both of the ships. One ship has VHF traffic in the background.
IRTS	3750	1115 to 1150	26	08	UK		USB	2 Ulster fishermen with plenty of foul language.
IRTS	3750	1115 to 1128	26	08	IRL		USB	1 fisherman from Cork and one fisherman from Galway having a bit of a chat at the same time and on the same frequency as the Ulster crowd above.
IRTS	3751	1136	17	08	E or MM		USB	2 Spanish fishermen chatting happily.
IRTS	3751	1605	30	08	E or MM		USB	2 Spanish fishermen having a great time.
IRTS	3756	0255	17	08	RUS		LSB	The Pip. Monster signal. On for decades.
IRTS	3777.7	1203 to 1208	08	08	IRL or MM		USB	2 Irish fishermen. Huge signals. Motor noise clearly audible from one of them. The other ship is much weaker and the operator is a person with a Polish or Russian accent. They make an appointment for 7 o'clock for "exchange of information"- as one of them calls it.
IRTS	5320	1141	08	08	F or MM		USB	2 French fishermen. Strong signals
IRTS	5350	1233	09	08	POR or MM		USB	2 Portuguese fishermen chatting
IRTS	5360	2152	02	08	UK		USB	A ham on holidays on the Isle Of Man uses this frequency outside the UK allocation for contacts into the EU and creates a lot of friction. A UK ham trying to tell the visiting ham that he is outside the UK allocation is shouted down by another ham and branded an "idiot".
IRTS	5360	0001	10	08	MRC or MM		USB	2 Moroccan fishermen chatting
IRTS	5361.8	0830	21	08	DNK		PSK8A	Massive 59 plus signal spreading down to 5359.5 KHz and up to 5364.5 KHz. Audible day and night all day onwards from about 10 th of August. Seems to be the primary LEGAL user, the military. Unfortunately it makes half of the new 5 MHz ham band unusable now. The signal is gone as of the 29 th of August.
IRTS	5390.5	1629	07	08			FMCW	Short bursts of radar, on and off. Probably from the Far East.5390.5 to 5401 KHz affected.
IRTS	5400	1325	01	08	E or MM		USB	2 Spanish fishermen. This frequency is extremely popular among fishermen. Spanish fishermen were heard several times on this frequency during the month.
IRTS	5400	0558	09	08			USB	2 male Japanese voices chatting
IRTS	5400	1330	21	08	F or MM		USB	Huge signals from 2 French fishermen. Heard several times on this frequency during the month. Somebody suggested to me that they might be

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
								from Belgium instead of France.
IRTS	5398.5	1025	04	08	UK		USB/LSB	An unknown intruder, most likely from the UK, keeps tuning and destroys deliberately any QSO. Heard a few times in the last 2 months. Another bit of "work" by this person is transmitting in LSB as soon as someone calls in USB. This person only stops when everyone is gone.
IRTS	5398.5	1540	13	08			FMCW	Radar, probably from the Far East, makes this frequency unusable at many days during the late afternoon.
IRTS	5405	1035 to 1103	31	08	POR or MM		USB	2 Portuguese fishermen just on an Irish HAM spot frequency.
IRTS	5399.8	2055	19	08	KOR or MM		USB	2 Korean fishermen. Same voices as often heard on 10 MHz . Still chatting 30 minutes later. Heard several times during the month at this time.
IRTS	7000	1648	05	08	I		LSB	A male voice having a monologue in Italian. Heard several times in the past already.
IRTS	7050	1151	04	08	UKR or RUS		LSB	Someone rebroadcasts a Russian radio station with a political discussion. This frequency is used daily for political propaganda.
IRTS	7055	1815	06	08	RUS or UKR		LSB	RUS/UKR radio war with agitprop PX. Very strong and daily audible during the day and early night. Nothing heard during the night.
IRTS	7055.3	1922-2030	21	08			Digital	59plus plus digital signal covering the spectrum from 7055.3 to 7064.2 KHz. Most likely RUS military.
IRTS	7070	0451	22	08	MRC or MM		USB	2 Maghreb fishermen chatting very happily.
IRTS	7150	1815	02	08	ERI		AM	Radio Eritrea. Big signal. A regular intruder heard on many days of the month.
IRTS	7180	0303	01	08	ERI		AM	Radio Eritrea. Strong signal. Audible every day. Sometimes with jamming from Ethiopia.
IRTS	7180	1804	02	08	SOM		AM	Radio Hargaysa. Strong signal. Can be heard daily.
IRTS	7180	1700	03	08	ERI		AM	Radio Eritrea plus white noise from Ethiopia. Heard very often during the month.
IRTS	7195.5	1930-2030	21	08			Digital	Another massive signal shutting down all HAM traffic from 7195.5 to 7205.5 KHz. Again most likely intruder is the RUS military.
IRTS	10111.2	0540	04	08	MRC or MM		USB	2 Moroccan fishermen chatting.
IRTS	10110.8	0633	12	08			USB	2 Arab voices chatting
IRTS	10144	1613	19	08			FMCW	Huge radar signals from 10144 to 10171 KHz.
IRTS	14050	1200	04	08	E or MM		USB	A male voice with a Spanish accent says several times the word "contact" and stops after 2 minutes.
IRTS	14100	1156	08	08	UKR or MM		LSB	2nd harmonic of 7050KHz used in the radio war between UKR and RUS with MX and propaganda talks.
IRTS	14110	1240	10	08	UKR or RUS		LSB	2. harmonic of 7055 KHz rebroadcasting of a Russian radio station.
IRTS	14192	1648	05	08	RUS		F1B	RUS navy, Kaliningrad. Daily during hours of sunlight.
IRTS	14221	0122	03	08	KGZ		F1B	Bishkek. Kyrgyzstan military. Heard very often during the nights.
IRTS	14295	1655	03	08	TJK		AM	3 rd harmonic of Radio Tajikistan. Heard daily.
IRTS	14332.5	1209	31	08			Digital	Big digital signal on and off. Probably a North Korean embassy in West Africa.
IRTS	14350	1145	07	08			CW	Rapid single dots in CW without interruption. Still on 1 hour later.
IRTS	14349.5	1228	23	08			USB	Somebody keeps repeating the rebroadcasting of the same Spanish radio comment. The

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
									rebroadcasting stops at 1257.
IRTS	18080	0636	03	08	TWN		AM		Voice of Hope, Taiwan. Heard several times during the month. Sometimes with jamming from the PRC.
IRTS	18156.5	1253	23	08			FMCW		Radar from 18156.5 to 18179.5 KHz. Very strong signal, all affected frequencies are unusable.
IRTS	21165	1245	10	08	UKR or RUS		LSB		3. harmonic of 7055 KHz. This station runs a particular "dirty" emission and has probably more harmonics all over the spectrum.
IRTS	24983	0815 to 0845	03	08	E		USB		Somebody rebroadcasts a Spanish radio programme with a male person talking.

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	3508,0	1900	28	8			LSB		russian, figures
MRASZ	3522,0	1858	28	8			PSK2		AT3004D
MRASZ	3528,0	1813	12	8			PSK2		AT3004D
MRASZ	3531,0	1921	9	8	RUS	REA4	N0N		hrd: 10, 15, 21, 28,
MRASZ	3537,0	1847	7	8			F1B	250	
MRASZ	3550,0	1743	12	8			PSK2		AT3004D, hrd: 14, 30
MRASZ	3559,0	2024	7	8			PSK2		AT3004D
MRASZ	3564,0	1841	28	8			F1A		"QSA QRJ K"
MRASZ	3564,0	1842	28	8			F1B	250	
MRASZ	3566,0	1922	9	8			A1A		"23546 98678 8T967" 5 figs
MRASZ	3568,0	1828	14	8			F1B	200	
MRASZ	3570,0	1823	23	8			PSK2		AT3004D
MRASZ	3570,5	1904	29	8			F1B	250	
MRASZ	3571,0	1919	21	8			F1B	200	
MRASZ	3582,0	1905	28	8			PSK2		AT3004D
MRASZ	3618,0	1817	28	8			A1A	250	"RROVB VCSKA DOCAO" 5 letters
MRASZ	3624,0	1918	10	8			PSK2		AT3004D
MRASZ	3624,0	1829	14	8			PSK2		AT3004D
MRASZ	3657,0	1959	15	8			F1B	500	
MRASZ	3675,0	1959	15	8			LSB		music
MRASZ	3709,0	1842	7	8			A1A		"UUAON CKUIQ LYNChK" 5 letters
MRASZ	3737,0	1833	30	8			A1A		"IWJOU XÖMTA FIOZJ"
MRASZ	3738,0	1906	29	8			LSB		eastern music
MRASZ	3758,0	1907	28	8			PSK2		
MRASZ	3762,0	1908	28	8			PAK2		
MRASZ	3772,0	1844	7	8			F1B	200	
MRASZ	7006,0	1908	29	8			F1B	200	
MRASZ	7010,0	1526	10	8			PSK2		AT3004D
MRASZ	7020,0	1613	11	8			F1B	250	
MRASZ	7033,5	1049	23	8			PSK2		AT3004D
MRASZ	7036,0	1739	12	8			N0N		
MRASZ	7050,0	1835	7	8			LSB		russian-ukrainian chaos, music, hrd: almost every day
MRASZ	7055,0	1836	7	8			LSB		chaos, music, propaganda hrd almost every day
MRASZ	7080,8	1616	11	8			A1A		deliberate disturbance
MRASZ	7088,0	1836	7	8			F1B	200	
MRASZ	7088,0	1332	8	8			F1B	200	
MRASZ	7120,0	1837	7	8	SOM		A3E		R. Hargaysa, hrd: 10, 11, 12, 13, 14, 15, 21, 23,30
MRASZ	7140,0	1800	10	8	ERI		A3E		Ui. BC, hrd: 11, 12, 13, 14, 23, 30
MRASZ	7140,0	1758	30	8			N0N		
MRASZ	7162,0	1827	28	8			F1B	250	
MRASZ	7170,0	1828	23	8			PSK2		AT3004D
MRASZ	7181,5	1804	10	8	ERI		A3E		Ui. BC, hrd: 11, 12, 13, 14, 23, 28, 30
MRASZ	7198,0	1909	21	8			PSK2		AT3004D

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	10102,6	1620	11	8			N0N		
MRASZ	10107,9	0805	31	8			N0N		
MRASZ	10108,0	0822	31	8	RUS		F1A	200	"RDL (3), "18820 10957 (3X) K
MRASZ	10108,0	0832	31	8	RUS		F1B	200	
MRASZ	10114,0	0745	23	8			F1B	1000	hrd: 31
MRASZ	10118,0	1833	7	8			F1B	250	hrd: 8, 9, 10, 11
MRASZ	10118,5	1915	9	8			A1A		dotter, deliberate disturbance
MRASZ	10125,0	1531	8	8			OTHR		
MRASZ	18080,0	0754	23	8	TWN		A3E		Sound of Hope Taiwan
MRASZ	14108,0	0812	31	8	RUS		A1A		"ZCAYN AEADI MChAKW"+ "QSY QSY QSY"
MRASZ	14292,0	1410	8	8			A1A		"54225 23462 54649"
MRASZ	14292,0	1416	8	8			A1A		"7M6L 7M6L 7M6L QTC +"
MRASZ	14295,0	1830	7	8	TJK		A3E		Radio Tajik, 3rd. harm. hrd: 7,9,11,12,13,14,21,30

OEVSV – Austria – OE3GSA (Gerd)

PZK – Poland – SP9BRP (Jan)

REF – France – F5MIU (Francis) - F5JBR (Andre)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Baud	Sh /Bw	DETAILS
R.E.F.	7150	1656	28	09			AM		18kHz	Jamming white noise S8 jamming cease at16h59 but AM remain
R.E.F.	7175	1656	28	09			AM		15kHz	Jamming white noise S9+ jamming cease at17h01 but AM remain
R.E.F.	14117	1747	19	09			fm		6kHz	2x Russian speaking in FM S9 !
R.E.F.	21070	0710	18	09			fmcw		20kHz	OTH radar S4 s-rate 40mS

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3510	07.59	10	08	F		J3E-U			French fishery
REP	3560	08.10	02	08	E		J3E-U			Spanish fishery
REP	3580	17.01	11	08	E		J3E-U			Spanish fishery
REP	7000	21.31	17	08	B		J3E-U			Brazilian fishery, everyday
REP	7075	17.01	17	08	RUS		PSK4	120	3k	AT3004D modem, Russia
REP	7120	17.44	04	08	SOM		8k00 A3EGN			Radio Hargaysa
REP	7140	All	Dly				A3E			Radio Eritreia jammed by R. Ethiopia
REP	7150	16.00	07	08	ETH		A3E			Radio Eritreia jammed
REP	7180	All	Dly				A3E			Radio Eritreia jammed by R. Ethiopia
REP	7185	18.21	14	08	RUS		PSK4	120	3k	AT3004D
REP	10120	19.01	22	08	MRC		J3E-U			Fishermen
REP	10130	17.08	20	08	E		J3E-U			Spanish fishery
REP	10134	09.15	30	08			J3E-U			Unid male ops msgs in phonetics
REP	14000	11.00	19	08			F1B	300	425	RY, RY, RY ...
REP	14008	07.59	13	08			F1B	50	250	
REP	14030	07.12	11	08	RUS		PSK2			AT3004D
REP	14135	17.30	15	08	RUS		FMCW			OTH radar, Russia
REP	14200	12.29	15	08	RUS		F1B	50	200	CIS36 modem
REP	14221	21.00	04	08	R		F1B	50	200	CIS-50 modem, Russian mil, evrdy
REP	14280	17.00	14	08	RUS		FMCW	50	17k	OTH radar
REP	28125	16.15	18	08	RUS		F3E			Taxi YL dispatcher
REP	28285	18.05	26	08			J3E-U			North african fishery
REP	28950	07.25	09	08	IRN		FMOP	150		Iran radar
REP	29135	10.02	13	08	RUS		F3E			Taxi dispatcher
REP	29165	11.01	10	08	RUS		F3E			Taxi dispatcher
REP	29250	16.59	11	08			F1B	82	180	Datawell GPS buoy
REP	28.xx	All	Dly	08	B		A3E J3E			Brazilian CB 'rs, daily, all day, all modes

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

Society	kHZ	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7001,0	1000-1240	16.	8		UiMUX	PSK2	120	2600	
SRAL	7006,5	1215	21.	8		UiPTR	F1B		200	
SRAL	7008,0	0740-0915/	*	8		UiPTR	F1B/ NON		250	Days: 4. 16. 18. 27. 28. 29.
SRAL	7008,5	1120-1145	4.	8		UiMUX	PSK2	120	2600	
SRAL	7016,0	0750-1410	*	8		UiPTR	F1B		250	Days: 16. 17. 18. 28.
SRAL	7018,62	0745-1200	12.	8		UiCarr	N0N			
SRAL	7018,75	1625-2110/	29.	8		UiPTR	F1B/A		250	
SRAL	7020,0	0745-1615	*	8	RUS	UiPTR	F1B		250	Days: 3. 11. 27. 31.
SRAL	7022,0	0745-1245	16. 31.	8		UiMUX	PSK2	120	2600	
SRAL	7025,0	0540-0900	30. 31.	8		UiPTR	F1B		200	
SRAL	7043,0	0745-0900	16.	8		UiMUX	PSK2	120	2600	
SRAL	7048,6	1120	12.	8		UiPTR	F1B/ NON			S9+ 20dB
SRAL	7058,0	11105-1230	16.	8		UiPTR	F1B		250	
SRAL	7063,5	1440	23.	8		UiPTR	F1B		200	
SRAL	7067,0	0745-0800	12.	8		UiPTR	F1B			
SRAL	7076,0	0935-0950	22.	8		UiPTR	F1B		250	
SRAL	7081,0	1230-1250	22.	8		UiCarr	N0N			
SRAL	7087,0	1045-1100	6.	8		UiMUX	PSK2	120	2600	
SRAL	7088,0	0400-2000	7. 8.	8		UiPTR	F1B		200	
SRAL	7090,5	1630	1.	8		UiMUX	PSK2	120	2600	Carrier on 7088,5 kHz
SRAL	7102,0	1315	11.	8		UiCW	A1A			5BL
SRAL	7111,0	0500-1100	4. 6.	8		UiPTR	F1B		250	
SRAL	7112,0	1300-1330	7.	8		UiMUX	PSK2	120	2600	
SRAL	7115,0	0400-0530	17.	8		UiMUX	PSK2	120	2600	
SRAL	7120,0	/0330-0530/	dly	8	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/1500-2000/	dly	8	SOM	R.Hargeis a	A3E			
SRAL	7122,0	1245-1400	15.	8		UiMUX	PSK2	120	2600	
SRAL	7122,0	1810	28.	8		UiPTR	F1B		250	
SRAL	7124,0	0530-0600	28.	8		UiMUX	PSK2	120	2600	
SRAL	7127,0	1030-1045	25.	8		UiMUX	PSK2	120	2600	
SRAL	7140,0	0300-0530	11. – 31.	8	ERI	VoBME	A3E			Jammed by ETH
SRAL	7140,0	1430-1835/	10. – 31.	8	ERI	VoBME	A3E			Jammed by ETH
SRAL	7150,0	0300-0530	1. – 10.	8	ERI	VoBME	A3E			Jammed by ETH

Society	kHZ	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7150,0	1430-1835/	1. – 9.	8	ERI	VoBME	A3E			Jammed by ETH
SRAL	7160,0	0830-1000	16.	8	RUS	RMW32	A1A			
SRAL	7162,0	1800-1850/	28.	8		UiPTR	F1B		250	
SRAL	7169,0	1330-1650	14. 16.	8		UiCW	A1A			5F
SRAL	7169,0	0800-1045	*	8		UiPTR	F1B		200/250	Days: 2. 5. 26.
SRAL	7170,0	1800	23.	8		UiMUX	PSK2	120	2600	
SRAL	7172,0	1250	28.	8		UiCW	A1A			5BL
SRAL	7176,6	0300-0530	1. – 10.	8	ERI	VoBME	A3E			Jammed by ETH
SRAL	7176,6	1430-1835/	1. – 9.	8	ERI	VoBME	A3E			Jammed by ETH
SRAL	7179,0	1400-1435/	1.	8		UiMUX	PSK2	120	2600	
SRAL	7180,0	0300-0530	20. – 24.	8	ERI	VoBME	A3E			Jammed by ETH
SRAL	7180,0	1430-1835/	20. – 24.	8	ERI	VoBME	A3E			Jammed by ETH
SRAL	7181,6	0300-0530	*	8	ERI	VoBME	A3E			Jammed by ETH, days: 11. – 19. 25. – 31.
SRAL	7181,6	1430-1835/	*	8	ERI	VoBME	A3E			Jammed by ETH, days: 10. – 19. 25. – 31.
SRAL	7186,0	1100-1430	10. 12.	8		UiMUX	PSK2	120	2600	
SRAL	7187,5	1200-1330	11. 15.	8		UiPTR	F1B		250	
SRAL	7198,0	1015-1030	16.	8		UiMUX	PSK2	120	2600	
SRAL	7199,0	1330-1400	22.	8		UiPTR	F1B		250	
SRAL	7 MHz			8	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 0d)
SRAL	7 MHz			8	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle. QRT ☺
SRAL	10 MHz	0330-0410	3.	8	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 12d)
SRAL	14008,0	0740-1420/	*	8		UiPTR	F1B		250	Days: 6. 10. 13. 16. 17. 20.
SRAL	14108,0	0615-1030	*	8	RUS	VWLS etc.	A1A			Days: 1. 7. 11. 13. 20. 30.
SRAL	14116,0	0525-0810	11. 21.	8		UiPTR	F1B		250	
SRAL	14120,0	0420-0550	12. 26.	8		2RQ9	A1A			
SRAL	14141,0	0820-0920	6. 20.	8		UiPTR	F1B		500	
SRAL	14144,0	0915	2.	8		UiMUX	PSK2	120	2600	
SRAL	14160,0	0805-1030	20. 21.	8		UiPTR	F1B		250	
SRAL	14192,0	0530-1300	*	8	RUS	UiPTR	F1B		200	Days: 1. 2. 5. 6. 8. 12. 13. 20. 26. 27. 31.
SRAL	14221,0	0300-0600/	dly	8	KGZ	UiPTR	F1B		200	
SRAL	14240,0	0700-1030	20. 30.	8		UiPTR	F1B		250	
SRAL	14292,0	0820	20. 22.	8		NTQQ	A1A			
SRAL	14295,0	0330-1930	dly	8	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX
SRAL	14 MHz			8	RUS	29B6	FMCW			50Hz / 15 kHz, (WebSDR 0d)
SRAL	14 MHz			8	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec, with 16 min cycle. QRT ☺

Society	kHZ	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	18080,0	0615-0745	*	8	TWN	VoAsia	A3E			Days: 7. 27. 31.
SRAL	18 MHz	0745-1200	*	8	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 12d) Days: 6. 7. 20. 22.
SRAL	21 MHz	0915-1030	27.	8	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 8d)
SRAL	21438,0	/0830-1100	3. 6. 27.	8	RUS	RCV	A1A			
SRAL	24 MHz			8		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28600,0			8	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz – 300 kHz
SRAL	28960,0	0530-1800	*	8	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz , days: 2. 3. 6. 7. 14. 16. 26. 27. 30.
SRAL	28 MHz			8		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 0d)
SRAL	28 MHz	0530-1800	*	8	RUS	Taxi disp.	F3E			64 reports, days: 1. – 5. 11. 13. 19. - 22. 26. 31.

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80m band informational only! - Primary but shared with other also primary allocated services										
USKA	3527.0	2127	28	08			F1B	50	200	daily
USKA	3532.0	2241	21	08			DQPSK	14x75	5k9	LINK 11 CLEW: ISP or DSP Mode
USKA	3550.0	2257	04	08			J7D	12x120	2k7	BPSK; CIS12
USKA	3732.0	2238	21	08			J7D	12x120	2k7	BPSK; CIS12
USKA	3738.0	2241	31	08			F1B	75	250	
USKA	3741.5	2245	31	08			A1A	23 wpm		letters and figures in groups of 5
USKA	3757.8	2131	28	08			J7D	12x120	2k7	BPSK; CIS12
USKA	3761.8	2134	28	08			J7D	12x120	2k7	BPSK; CIS12
USKA	7000.0	1905	07	08			N0N			long lasting carrier
USKA	7000.0	2238	17				J3E-U			unident language, maybe Asian village radio ?
USKA	7050.0	1638	07	08			J3E-L		~3k	Patriotic slogans and music often
USKA	7058.0	2209	22	08			F1B	75	250	
USKA	7060.0	0844	09	08			J7D	12x120	2k7	BPSK; CIS12
USKA	7063.5	2213	21	08			F1B	75	200	
USKA	7064.0	1652	09	08			J7D	12x120	2k7	BPSK; CIS12
USKA	7088.0	1641	07	08			F1B	75	200	
USKA	7094.0	1647	09	08			FMOP	10 sps	30k	
USKA	7103.0 VFO USB	2246	09	08		var	F1B	100	170	CODAN Selcall; ID's: 5633; 10001; 6605; 4865; 1961
USKA	7106.0 VFO USB	2309	09	08		var	F1B	100	170	CODAN Selcall; ID's: 3952; 7001; 11191; 7987;
USKA	7111.0 VFO LSB	2250	04	08			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz. Preamble 4x PSK 60Bd, spacing 600Hz; Pilotone at 450Hz
USKA	7111.0	0938	06	08			F1B	75	250	
USKA	7112.0 VFO USB	2248	04	08		var	F1B	100	170	CODAN Selcall ID: 5825
USKA	7112.0 VFO LSB	1329	10	08			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz Preamble 4x PSK 60Bd, spacing 600Hz; Pilotone at 450Hz
USKA	7114.0	2230	31	08			F1B	50	200	
USKA	7119.9	1719	06	08	SOM		A3E			BC; Radio Hargaysa almost daily
USKA	7122.0	0818	15	08			J7D	12x120	2k7	QPSK; CIS12 (AT3104D)
USKA	7137.0	1437	04	08			J7D	12x120	2k7	BPSK; CIS12
USKA	7139.0 VFO USB	2227	09	08		var	F1B	100	170	CODAN Selcall ID's: 7030; 10001; 11896; 4553

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7140.0	1721	16	08			A3E			BC
USKA	7142.0 VFO USB	2223	09	08		var	F1B	100	170	CODAN Selcall
USKA	7150.0	1640	07	08	ERI		A3E			BC, massively jammed
USKA	7150.0	1641	07	08					~ 20k	Jammer, white noise
USKA	7154.0 VFO LSB	2106	13	08			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz Preamble 4x PSK 60Bd, spacing 600Hz; Pilottone at 450Hz
USKA	7169.0	0813	09	08			F1B	75	250	
USKA	7175.0	1643	07	08	ERI		A3E		~8k	BC, massively jammed
USKA	7175.0	1644	07	08					20k	Jammer, white noise
USKA	7180.0	1519	29	08					≥ 10k	Jammer, white noise, heavy
USKA	7181.5	1519	29	08	ERI?		A3E		~8k	BC, massively jammed
USKA	7197.0	2217	21	08		381018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2219	21	08		340018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2222	21	08		347018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2223	21	08		123456	MFSK8	125	1750	ALE, MIL 188-141A often
USKA	7197.0	2225	21	08		317018	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2228	21	08		306013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	7197.0	2232	21	08		319013	MFSK8	125	1750	ALE, MIL 188-141A
USKA	14008.0	1348	07	08			F1B	50	250	almost daily
USKA	14026.0	1253	08	08			J7D	12x120	2k7	BPSK; CIS12 system
USKA	14116.0	0823	21	08			F1B	50	250	
USKA	14141.0	0915	06	08			F1B	75	500	
USKA	14160.0	0657	30	08			F1A		250	some short cw with q-codes
USKA	14160.0	0701	30	08			F1B	75	250	
USKA	14169.0	0806	14	08			F1B	50	200	
USKA	14177.0	0924	06	08			F1B	75	500	
USKA	14190.0	0834	09	08			FMCW	41 sps	~10k	OTHR, Burst system BD appx 6s, appx BRI 43s
USKA	14192.0	1458	01	08			F1B	50	200	almost daily
USKA	14221.0	2034	15	08			F1B	50	200	almost daily
USKA	14240.0	0706	30	08			F1B	75	250	
USKA	14258.0	1155	05	08			F1B	50	500	
USKA	14314.0	0858	31	08			J7D	12x120	2k7	BPSK; CIS12
USKA	14348.5	1314	10	08			F1B	600	600	ARQ
USKA	18065.0	0837	21	08			FMCW	50 sps	20k	OTHR, partially in 17m band
USKA	18150.0	0812	14	08			F1B	100	1k	Harmonic of 9075kHz often
USKA	21310.0	1634	07	08			FMCW	50	20k	OTHR; strong fading

Veron – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3527.0	20.04	1	8		UiPTR	F1B		Revs (also 25/8 20.15 UTC)
VERON	3531.0	20.12	25	8		UiPTR	F1B		Dotter
VERON	3592.0	20.17	25	8	CIS	UiCW	A1A		5BL
VERON	3616.0	20.06	1	8	CIS	UiCW	A1A		Strings of Cyrillic Morse
VERON	3789.0	17.55	2	8	CIS	UiCW	A1A		5BL
VERON	7020.0	15.40	11	8	RUS	UiPtr	F1B	250 Hz	Ptr
VERON	7049,8	17.04	5	8	RUS/UKR	UiBC	A3E		Russian speech; S9+; wide splatters
VERON	7050.0	19.31	11	8	RUS	UiBC	A3E		speech Russian language
VERON	7055.0	19.21	5	8	RUS/UKR		J3E-1		Russian speech; no calls
VERON	7055.0	19.21	5	8	RUS/UKR		J3E-1		Patriotic music
VERON	7055.0	14.53	19	8	RUS/UKR		J3E-1		Russian speech; no calls
VERON	7070.0	21.21	19	8	GEO?	UiMux	FSK8	1k8	
VERON	7150.0	15.10	5	8	ETH		NON	10k	White noise jammer; S5
VERON	7169.0	06.28	18	8	CIS	VBLE	A1A		proc
VERON	7169.0	13.50	18	8	CIS	7A4Z	A1A		2EL8 DE 7A4Z R 284 IMI K
VERON	7169.0	13.57	18	8	CIS	7A4Z	A1A		PMV5 DE 7A4Z R 284 IMI K
VERON	7169.0	13.00	21	8	CIS	KNJJ	A1A		DSLS DE KNJJ proc

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	7169,0	13.01	21	8	CIS	KNJJ	A1A		ZODS DE KNJJ proc
VERON	7175,0	15.08	5	8	ETH		NON	10k	White noise jammer; S6
VERON	7200,0	20.14	19	8	CHN/TWN	UiBC	A3E	8k	Chinese music; S6
VERON	14008,0	08.40	10	8	CIS	UiPTR	F1B		Carrier/Revs/Ptr (also 17/8)
VERON	14040,0	15.45	13	8	E	UiILL	J3E-u		male, Spanish
VERON	14108,0	11.59	24	8	CIS	DJQU	A1A		FCC6 de DJQU QTC 733 QEPDa 5BL
VERON	14108,0	12.01	5	8	RUS	VWLS	A1A		6VCM DE VWLS QTC ZGS K
VERON	14108,0	07.29	16	8	RUS	SJPT	A1A		QJIG DE SJPT proc
VERON	14108,0	07.30	16	8	RUS	SJPT	A1A		M1Z3 DE SJPT proc
VERON	14108,0	07.31	16	8	RUS	SJPT	A1A		NOW5 DE SJPT proc
VERON	14108,0	07.32	16	8	RUS	SJPT	A1A		WNQD DE SJPT proc
VERON	14108,0	07.33	16	8	RUS	SJPT	A1A		IRPR DE SJPT proc
VERON	14108,0	07.34	16	8	RUS	SJPT	A1A		ZTCM DE SJPT proc
VERON	14108,0	06.08	17	8	RUS	SJPT	A1A		IRPR DE SJPT 412 24 17 0906 412 BT
VERON	14108,0	06.08	17	8	RUS	SJPT	A1A		ZGB 127 BT M MMMM (etc 5BL)
VERON	14108,0	06.12	21	8	RUS	DIQU	A1A		SKVH DE DJQU QTC 475 38 21 0916 475
VERON	14108,0	06.12	21	8	RUS	DIQU	A1A		BT 997 BT M MMMM (etc 5BL). Ends: 792
VERON	14108,0	09.57	10	8	CIS	F2ET	A1A		XXX WL5N F2ET 96847 9951 1902 etc
VERON	14108,0	09.58	10	8	CIS	F2ET	A1A		XXX KH8N F2ET 96847 35174 1902 K
VERON	14108,0	09.59	10	8	CIS	F2ET	A1A		XXX WL5N 37332 RIS 3268 4500 K
VERON	14108,0	10.00	10	8	CIS	F2ET	A1A		XXX WL5N 37332 RIS 3268 K
VERON	14108,0	12.02	14	8	CIS	SJPT	A1A		QJIG DE SJPT R 648 ? K proc
VERON	14108,0	12.02	14	8	CIS	SJPT	A1A		NOW5 de SJPT R 648 ? K
VERON	14108,0	12.08	14	8	CIS	SJPT	A1A		XXX WEGI 33679 STSILXNYJ 8173
VERON	14108,0	12.13	14	8	CIS	SJPT	A1A		M1Z3 de SJPT 648 ? K
VERON	14108,0	12.15	14	8	CIS	SJPT	A1A		IRPR de SJPT 648 ? K
VERON	14108,0	09.16	8	8	CIS	VWLS	A1A		ASD7 de VWLS QRJ3 QJG QYT9 k
VERON	14108,0	09.31	8	8	CIS	VWLS	A1A		ASD7 de VWLS ZXL ZXH ZBB QYT9 k
VERON	14108,0	09.46	8	8	CIS	8CDC	A1A		8CDC ZGU ZBR ZPM QYT6 k
VERON	14108,0	09.47	8	8	CIS	7BAB	A1A		7BAB R k
VERON	14108,0	09.50	8	8	CIS	VWLS	A1A		ASD7 de VWLS QTA ZXL ZXXN QYT6 k
VERON	14108,0	09.55	8	8	CIS	ZLFU	A1A		6VCM de ZLFU QTC 515 MMMMM 5BL
VERON	14108,0	10.00	18	8	CIS	SJPT	A1A		Calls to: NOW5 WNQD IRPR ZTCM
VERON	14108,0	10.10	18	8	CIS	SJPT	A1A		M1Z3 de SJPT QTC 732 MMMMM 5BL
VERON	14108,0	12.19	24	8	CIS	DJQU	A1A		Calls to: HGAH 804D PUCM A2CX
VERON	14108,0	12.19	24	8	CIS	DJQU	A1A		Calls to: FCC6 HAZI
VERON	14116,0	08.18	11	8		UiPTR	F1B		Ptr
VERON	14160,0	08.15	11	8		UiPTR	F1B		Ptr
VERON	14192,0	08.50	3	8	CIS	UiPTR	F1B		Revs/Ptr
VERON	14215,0	18.46	31	8	UKR	D1DX	JRE-u		Pirate callsign From Donetsk clg CQ DX
VERON	14350,0	08.45	7	8		UiCAR	A1A		Ui carrier
VERON	21438,0	15.35	17	8	RUS	RCV	A1A		RGC94 DE RCV QTC 918 85 19 1301 918
VERON	21438,0	15.35	17	8	RUS	RCV	A1A		BT NAWIP (etc)

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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