



International Amateur Radio Union

Region 1



Monitoring System

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The monthly newsletter for Region 1

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Acknowledgements

ARAT: 3V8CB – Ahmed ++ ARI: DH7SA – Salvatore ++ ARSK: 5Z4NU - Ted ++ ASTRA: DL1BDF – Mustapha ++ DARC: DK2OM – Wolf ++ EARS: A61DJ – 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: M0VRR - Vaughan ++ 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) ++ YO9RIJ – Petrica ++ PTTs: BAKOM (Swiss), BNetzA Konstanz (Germany) ++ OFCOM (UK) ++ Dutch AT

Part 1: News and infos

Part 2: Detailed reports of the national co-ordinators

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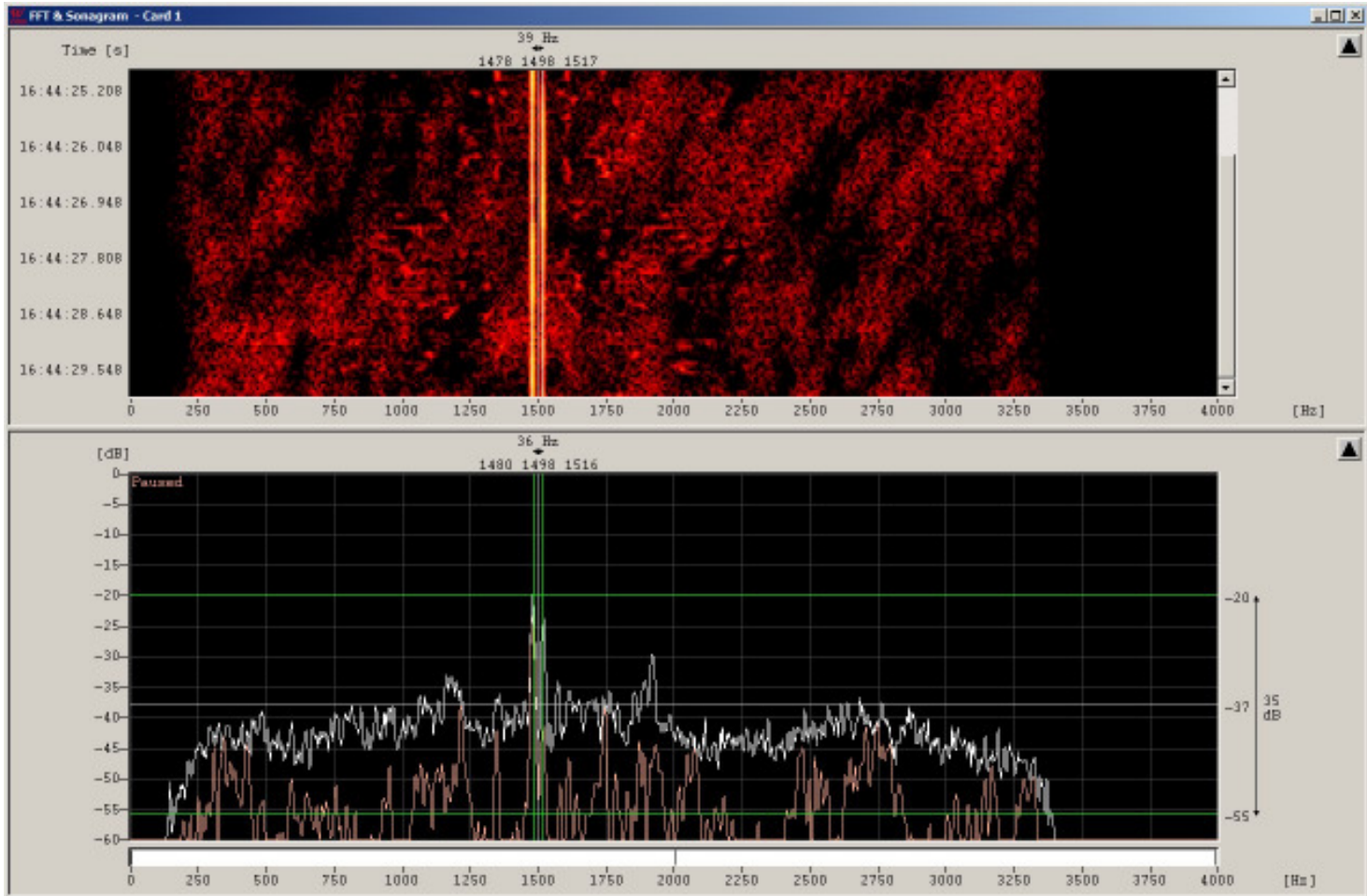
Part 1: News and Infos

1. Radio Eritrea again on 7 MHz

We observed again Radio Eritrea on 7175.989 kHz and also on 7146.557 kHz with different programs (both disturbed by Radio Ethiopia with white noise). The German, Austrian and Swiss PTTs were informed for official complaints.

Below:

You can see the carriers from Eritrea and Ethiopia on 7175 kHz, BC modulation on both sidebands and the white noise from Ethiopia. Screenshot: DK2OM with Wavcom W-Code on Sept. 22nd at 1644 UTC



2. Beacon "V" on 7091.5 kHz:

The CW-beacon "V" loop was daily audible on 7091.543 kHz. Location: Almaty, Kazakhstan.

3. Russian Radar Contayner on 7 and 14 MHz

The Russian radar Contayner was again active with long lasting transmissions on 7 and 14 MHz, often with many spurious emissions.

4. REA4 – again on 7117 kHz

The Russian airforce Moscow was again active on 7117 kHz on F1B – 100 Bd – 1000 Hz shift – mostly idling. The ident "REA4" was sent on CW at 1640 UTC on the mark-QRG. Observed by DK2OM on Sept. 7th at 1418 UTC.

5. Russian Navy Sevastopol on 14180 kHz

The Russian Navy (ident "RDL") was transmitting on 14180 kHz on F1B with 50 Bd and 200 Hz shift for several days. Location: Sevastopol – Crimea
The German PTT filed an official complaint.

6. Russian MIL on 7016 kHz

A Russian MIL transmission on F1B (75 Bd – 250 shift) disturbed the CW-part on 7016 kHz for several days. Location: Moscow

7. Radar Iran on 28960 kHz

The Iranian radar was daily transmitting 28960 kHz on FMOP with 150 and 313 sps covering about 50 kHz with many spurious emissions. Due to bad conditions on 10 m the signals could not be found during the last September days.

8. Chinese broadband OTH radars on 14 MHz

I got some complaints about the “Woodpecker” on 14 MHz from different HAMs. But this was not the Russian “Woodpecker”. A Chinese broadband caused strong QRM on 14205 – 14365 kHz with 10 sps and blocks of 100 sec. Observed on Sept. 25th at 0846 UTC by DK2OM

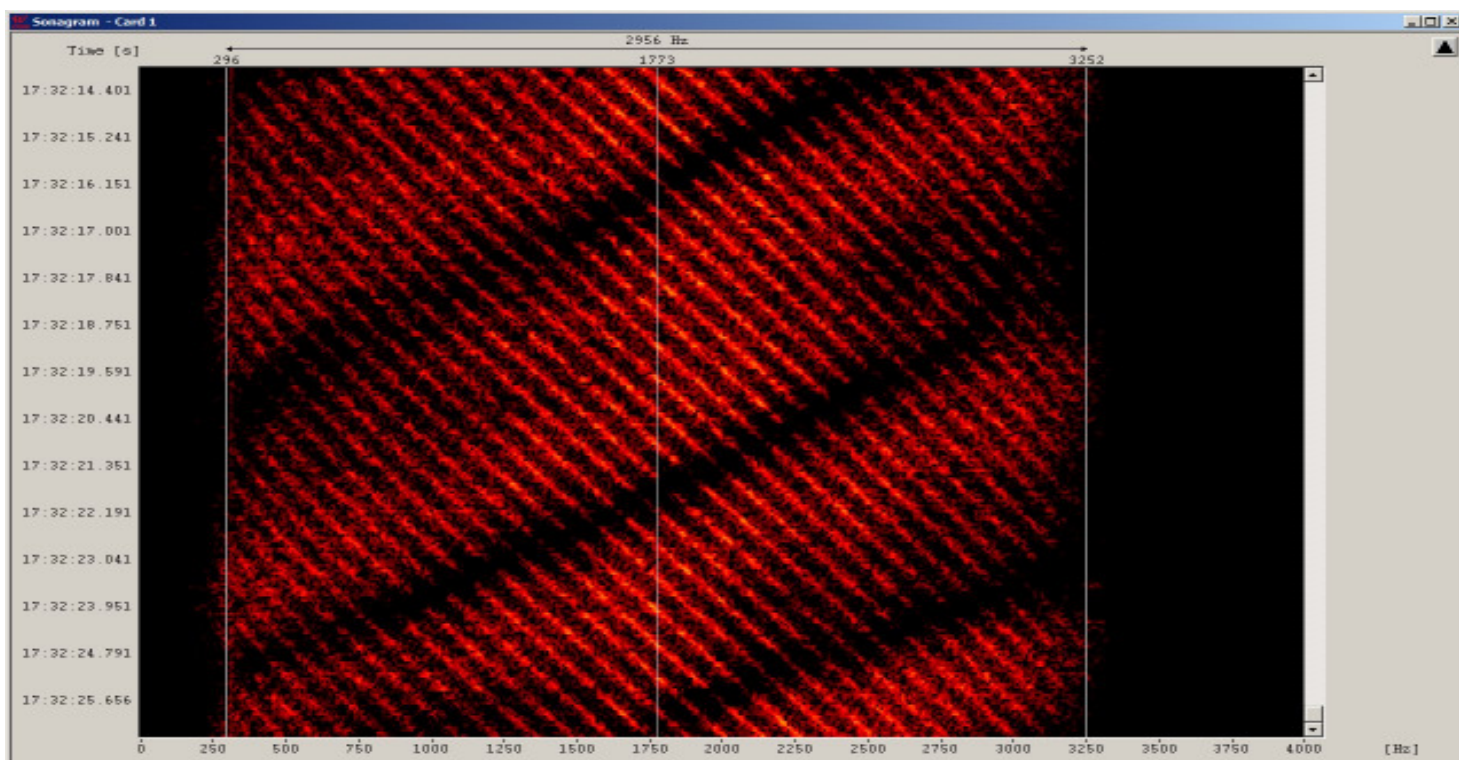
Another broadband OTH radar from China was detected on 14075 – 14235 kHz (10 sps) on Sept. 16th at 0900 UTC:

9. The situation on the 10 MHz-band (shared band)

HAMs observed many intruders on 10100 – 10150 kHz. All intruders are legal, except the fishermen. You can find many MIL-traffic from Africa, Europe and also from Far-East. Even the Australian OTH radar “JORN” appears there in burst-mode from time to time during the evening hours. Please observe the entries in my table!

10. Unknown signal on 3712 kHz

An unknown and strange signal was found on 3712 kHz on Sept. 21st at 1732 UTC. Perhaps a defective military system, location: Marseille – South France. Screenshot: DK2OM with Wavecom W-Code.



11. No changes or bad news

3590.0 kHz – USB – Spanish fishery with voice scrambler “CRY 2001” every evening
6998.0 kHz - Russian buzzer – daily and all day
7120.0 kHz – Radio Hargaysa Somalia
7146.5 kHz – Radio Eritrea with Ethiopian QRM
7175.0 kHz – Radio Eritrea with Ethiopian QRM
7200.0 kHz – Radio Myanma
7205.0 kHz – RFI = Radio France International) splattering down to 7185 kHz every evening
14295.0 kHz - Radio Tajik (harmonic from 4765 kHz)

12. Homepage IARU Region 1

Homepage IARUMS Region 1

Homepage IARUMS Region 2

Homepage IARUMS Region 3

Intruderlogger Region 1

ITU-Monitoring Reports

<http://www.iaru-r1.org/>

<http://www.iarums-r1.org>

<http://www.iaru-r2.org/>

<http://iaru-r3.org/iaru-region-3-monitoring-system-newsletter/>

<http://peditio.net/intruder/bluechat.cgi>

<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 MONITORING OVERVIEW FOR SEPTEMBER 2016

Radio Hargeisha remained on 7,120 kHz with broadcasts. As usual there were some local or Central African intruders observed on 7,000, 7,074 and 7,075 kHz.

E.H.M. Alleyne, 5Z4NU - ARSK National IARUMS Co-ordinator

ARSK – Kenya – 5Z4NU (Ted)

H'd by	kHz	UTC	dd	mm	ITU	Identity	MODE.	Details
ARSK	7000.0	vt	dly	9	E. Africa	?	J3Eu	Unidentified, KiSwahili, East Africa. Possibly military.
ARSK	7074.0	vt	dly	9	E. Africa ?	?	J3E	Unidentified language,
ARSK	7075.0	vt	dly	9	E. Africa	?	J3Eu	Unidentified language
ARSK	7120.0	vt	dly	9	Rep.of Somalia	Hargeisha	A3E	Broadcast
ARSK	7145.0	AM/PM	25-30	9	Eritrea	VOBM?	A3E	Voice of the Broad Masses? Broadcast, Amharic, Arabic
ARSK	7164.0	vt	dly	9	E. Africa?	?	J3Eu	Military? Phonetics, messages.
ARSK	7175.0	AM/PM	25-30	9	Eritrea	VOBM?	A3E	Probable hopping to avoid jamming

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

DG0JBJ (Mario) observed **11** OTH radars on 40 m, **40** OTH radars on 20 m, **34** OTH radars on 17m, **13** OTH radar on 15 m and **2** OTH radar on 10 m in September 2016.

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	1812,0	2055	01	09	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	2055	01	09	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	2055	01	09	I	IQP	USB			San Benedetto Radio, weather reports
DK2OM	1876,0	2056	01	09	I	IQN	USB			Lampedusa Radio, weather reports
DK2OM	1888,0	2056	01	09	I	IPD	USB			Civitavecchia Radio, weather reports
DK2OM	1896,5	2057	01	09	D		PSK8	2400	2400	Stanag4285 – 600 bps long –

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										German Navy – daily, all day
DK2OM	1925,0	1831	17	09	I	IPL	USB			Livorno Radio, weather reports
DK2OM	3500,0	vt	dly	09	TUR		FSK8	125	1750	ALE, “2016” “4017” – Turkish Red Crescent – just for info!
DK2OM	3501,0	2017	26	09	E		LSB			Spanish fishery
DK2OM	3503,5	vt	dly	09	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3519,5	1628	12	09			PSK8A	2400	2400	Stanag-4285 – 600 bps long – idling – ship – Baltic Sea
DK2OM	3520,0	---	--	09	KAZ		USB			2 women in Russian voice – Kazakhstan - often evenings
DK2OM	3520,0	1916	01	09	E		USB			Spanish fishery
DK2OM	3525,0	1724	26	09	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3526,8	1923	15	09			PSK8A	2400	2400	Link11- SLEW – Baltic Sea
DK2OM	3527,0	1902	26	09	RUS		PSK2A	120	2600	AT3004D - Kaliningrad
DK2OM	3530,0	1745	08	09	RUS		PSK2A	120	2600	AT3004D - Crimea
DK2OM	3531,0	---	--	09	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	2018	27	09	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	1750	02	09	E		USB			Spanish fishery – daily
DK2OM	3539,0	1903	11	09	F		USB			French fishery
DK2OM	3541,2	1940	01	09	F		A3E			French amateurs not respecting bandplans
DK2OM	3542,0	2050	05	09	RUS		PSK2A	120	2600	AT3004D – Rostov na Donu
DK2OM	3546,0	1937	21	09	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic – Nizhny Novgorod
DK2OM	3548,5	1936	21	09	UKR		PSK2A	120	2600	AT3004D - Kyiv
DK2OM	3550,0	vt	dly	09	F		A3E			French amateurs not respecting bandplans - daily
DK2OM	3550,0	vt	vd	09	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,7	1956	05	09	ISR		PSK4 PSK8	2400 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation
DK2OM	3553,8	ady	dly	09	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long - TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3560,0	1935	17	09	E		USB			Spanish fishery
DK2OM	3560,0	1844	20	09	E		USB			Spanish fishery with voice scrambler CRY 2001
DK2OM	3570,0	2145	01	09	E		USB			Spanish fishery
DK2OM	3570,0	1822	21	09	RUS		PSK2A	120	2600	AT3004D – St. Peterburg
DK2OM	3576,6	ady	dly	09	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3582,0	2007	26	09	RUS		PSK2A	120	2600	AT3004D – St. Peterburg
DK2OM	3585,0	1935	08	09	TWN	HLL	FIC		800	WX-fax Taiwan - 120 rpm, IOC 576, - daily, all day - legal!
DK2OM	3586,0	1800	dly	09	G		PSK2A	40	40	encrypted – every evening Great Britain – purpose unknown
DK2OM	3586,0	2029	28	09	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Kaluga
DK2OM	3587,0	vt	vd	09	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	vt	dly	09	PAK	no ITU	FSK8	125	1750	ALE, “KW” “KHAIBAR” – Pakistan navy
DK2OM	3590,0	1730	02	09	E		USB			Spanish fishery – every evening
DK2OM	3590,0	2001	04	09	E		USB			Spanish fishery with voice scrambler CRY 2001
DK2OM	3591,0	2012	28	09			F1B	75	250	

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3593,7	---	--	09	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	---	--	09	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	09	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	09	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3595,0	---	--	09	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	vt	dly	09	D		FSK8	125	1750	ALE, “DK0ESD” – just for info!
DK2OM	3596,0	vt	dly	09	J		FSK8	125	1750	ALE, “JHIESB” – just for info!
DK2OM	3605,5	1551	09	09			PSK4A	50	1200	Free-DV – 16 x 50 Bd PSK4A – Ham-mode – just for info !
DK2OM	3617,0	vt	dly	09	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	1936	08	09	J	JMH	FIC		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3640,0	vt	dly	09	G		FSK8	125	1750	ALE, “XSS” - British MIL Tascomm – just for info!
DK2OM	3642,0	ady	dly	09	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3649,0	vt	vd	09	ALG	no ITU	FSK8	125	1750	ALE, “BI20” PA20”
DK2OM	3658,0	---	--	09	UZB		A1A			beacon “V” - Tashkent
DK2OM	3683,0	1704	18	09	CHN		PSK4A	60	2350	PRC 30 tone modem – LSB mode – pilot tone 450 Hz
DK2OM	3712,0	1730	21	09	F		unid			broken signal – Marseille
DK2OM	3718,0	vt	vd	09	FEa	7CJK	A1A			loop “7CJK”
DK2OM	3720,0	vt	dly	09	S		FSK8	125	1750	ALE, “YU” “YT” “YV” “DZ” – Swedish MIL
DK2OM	3751,5	vt	dly	09	POL	no ITU	FSK8	125	1750	ALE, “IZ3” “MI3”
DK2OM	3756,0	1900	dly	09	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	09	FEa	RIS9	A1A			“M8JF de RIS9” - loop
DK2OM	3761,5	vt	vd	09	POL	no ITU	FSK8	125	1750	ALE, “NI9” “PL7” “AB2” – Polish MIL
DK2OM	3772,0	ady	dly	09	FEa	A4JC	A1A			“A4JC” - loop
DK2OM	3777,0	1700	18	09	FEa		A1A			“M8JF de RIS9” – loop – dly
DK2OM	3791,0	vt	vd	09	D	DK0ESD	FSK8	125	1750	ALE, “DK0ESD” – daily just for info!
DK2OM	3797,0	ady	dly	09	FEa		A1A			“M8JF de RIS9” – loop
DK2OM	6998,5	vt	dly	09	POL		PSK8	2400	2400	MIL-188-110A – until 7001.500 kHz – Polish MIL
DK2OM	7000,0	1338	17	09	INS		USB LSB			Indonesian pirates – daily – all day - audible in Europe in the evenings
DK2OM	7000,0	ady	dly	09	RUS		H3E		3.4 k	buzzer – 1 sec bursts - 118 Hz AF rough sinus – carrier on 6998.0 + upper sideband - with splatters 10 kHz wide – daily, all day - Moscow
DK2OM	7000,0	1940	05	09	E		USB			Spanish fishery – also 29.09.2016 at 1645 utc
DK2OM	7001,5	0700	vd	09	POL		PSK8	2400	2400	RF QRG 6998.5 kHz – 7000.3 kHz center - MIL-188-110A – 600 / 300 bps short – Polish MIL
DK2OM	7005,0	0931	19	09	INS		USB LSB			Indonesian pirates
DK2OM	7008,0	1502	25	09	RUS		PSK2A	120	2600	AT3004D - Vladimir
DK2OM	7010,0	0930	19	09	INS		USB LSB			Indonesian and Philippine pirates

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7015,0	vt	dly	08	INS		USB LSB			Indonesian pirates
DK2OM	7016,0	1724	21	09	RUS		F1B	75	250	Moscow
DK2OM	7018,0	---	--	09	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7019,0	1520	28	09	CHN		PSK4A	60	2350	PRC 30 tone modem - LSB mode - pilot tone 450 Hz
DK2OM	7020,0	1254	13	09	INS		USB LSB			Indonesian pirates
DK2OM	7020,0	---	--	09	ALB		FSK8	125	1750	ALE, “CS004A” “RS008D” “RS0” – Albanian coast - daily
DK2OM	7022,0	0917	20	09	RUS		PSK2A	120	2600	AT3004D – Moscow
DK2OM	7025,0	vt	dly	09	INS		USB LSB			Indonesian pirates
DK2OM	7026,0	1618	08	09	RUS		PSK2A	120	2600	AT3004D – area of Moscow
DK2OM	7027,5	---	--	09	UKR	„V“	A1A			beacon “V” – Kyiv
DK2OM	7030,0	1256	13	09	INS		LSB			Indonesian pirates
DK2OM	7030,0	1622	01	09	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7030 – 7062 kHz
DK2OM	7035,0	vt	dly	09	INS		USB LSB			Indonesian pirates
DK2OM	7035,0	0803	31	09	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps - Gorodezh
DK2OM	7037,0	0704	20	09	RUS		PSK2	120	2600	AT3004D – submode idle – Rostov na Donu
DK2OM	7039,0	---	--	09	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	7039,1	---	--	09		A	A1A			beacon “A” - loop
DK2OM	7039,2	1609	01	09	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	7039,3	---	--	09	RUS	K	A1A			Cluster beacon K Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC” - daily
DK2OM	7039,4	1609	01	09	RUS	M	A1A			Cluster beacon M – Magadan RUS Navy – „RTS“ – distorted with spurious emissions
DK2OM	7040,0	vt	dly	09	INS		USB LSB			Indonesian pirates
DK2OM	7040,0	vt	dly	09	F	F6BAZ	FSK8	125	1750	ALE, “F6BAZ” – just for info
DK2OM	7040,0	ady	dly	09	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,5	vt	dly	09	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7047,37	vt	vd	09	D		FSK8	125	1750	ALE, “DL0NOT” – just for info!
DK2OM	7049,5	vt	vd	09	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	vt	dly	09	RUS UKR		LSB			music transmissions – private war ?
DK2OM	7050,0	0340	13	09	UKR		A1A			“2B9W” de “TUJU” - Kyiv
DK2OM	7055,0	1952	21	09	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Moscow
DK2OM	7055,5	vt	vd	09	MEa	no ITU	FSK8	125	1750	ALE, “111” “132” “133” - Caucasus
DK2OM	7070,0	vt	vd	09	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7070,0	0847	19	09	I		LSB			Italian music
DK2OM	7076,0	1245	20	09	RUS		PSK2A	120	2600	AT3004D - Vladimir
DK2OM	7086,0	1943	08	09	CHN ?		FMOP		83k	OTH radar – 7086 – 7169 kHz – 86 sps
DK2OM	7088,8	1709	05	09	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7089,8	---	--	09	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus
DK2OM	7090,5	2305	12	09	RUS		PSK2A	120	2600	AT3004D – Severomorsk – also 14.09.2016 at 0809 utc
DK2OM	7091,5	1632	05	09	KAZ	„V“	A1A			7091.543 kHz - loop with spurious – ident “V” – Almaty - Kazakhstan
DK2OM	7099,5	vt	dly	09	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info!
DK2OM	7102,0	vt	dly	09	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	7102,0	1630	22	09	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, “9A0MIL” “9A2KS” “HB9MHB” “9A0ZG” “9A4OS” “DK0ESD” – just for info!
DK2OM	7110,0	vt	dly	09	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7110,0	1711	05	09	F		A1A			loop “369” – south of Paris
DK2OM	7110,0	2020	09	09	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	7111,8	0910	10	09	CHN		FSK8	150	2250	PRC4+4 idling – 8 x FSK 150 Bd
DK2OM	7112,0	1525	28	09	CHN		PSK4A	60	2350	PRC 30 tone modem - LSB mode - pilot tone 450 Hz
DK2OM	7117,0	1418	07	09	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	7117,0	1913	07	09	RUS		F1B	75	200	Moscow
DK2OM	7120,0	vt	dly	09	SOM		A3E		9k	Radio Hargaysa – Somalia – daily – even audible in Australia and Japan
DK2OM	7122,0	1252	13	09	RUS		PSK2A	120	2600	AT3004D – Far East-Russia
DK2OM	7126,7	0743	26	09	ISR		PSK4 PSK8	2400 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation
DK2OM	7137,0	vt	dly	09	TWN		FSK8 LSB	125	1750	ALE, “CBIUN” “CBWPC” “CQYTX” “CAPLJ” “CTFOJ” “CEGTO” “CSNYI” “CEIPN” “CRXWT” - Taiwanese navy – daily
DK2OM	7142,3	2234	14	09	CHN		OFDM	44.6	2400	PRC 39 – PSK4B – East China
DK2OM	7146,5	1830	29	09	ERI		A3E/BC		9k	carrier on 7146.557 kHz - Radio Eritrea
DK2OM	7150,0	1938	08	09	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7150 – 7182 kHz
DK2OM	7151,0	0727	03	09	RUS		PSK2A	120	2600	AT3004D – submode idle and traffic - Sevastopol
DK2OM	7156,0	1605	01	09	FEa		FMCW		32k	Codar like ocean surface radar 2.6 sps – 7156 – 7188 kHz
DK2OM	7163,0	---	--	09	UKR		A3E			encrypted MSGs - SZRU in Rivne
DK2OM	7174,0	1900	28	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	7175,0	0430	14	09	ERI ETH		A3E		9k	carrier on 7174.989 kHz Radio Eritrea disturbed by Radio Ethiopia with white noise emissions
DK2OM	7175,0	1630	22	09	ERI ETH		A3E		9k	carrier on 7174.989 kHz Radio Eritrea disturbed by Radio Ethiopia with white noise emissions
DK2OM	7176,0	1909	21	09	RUS		F1B	75	250	Moscow
DK2OM	7183,0	vt	dly	09	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7184,0	1939	25	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	7185,5	0740	24	09	D HRV		FSK8	125	1750	ALE, “9A5EX” “DK0ESD” just for info - daily
DK2OM	7197,0	vt	dly	09	TUR	no ITU	FSK8	125	1750	ALE, “206102” “318013” “328013” “355013” “365013”

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										“329018” “308013” “331730” “355013” “337013” “381013” “311013” Turkish organisations and Turkish Civil Defense - source: DL8AAM – daily, various times
DK2OM	7198,8	0759	25	09	D		PSK8A	2400	2400	Stanag-4285 – area of Nuernberg
DK2OM	7205,0	---	--	09	IRN		A3E		20k	Voice of Iran with splatters down to 7195 kHz and up to 7215 kHz – 1920 – 1950 utc daily
DK2OM	7205,0	---	--	09	F	RFI	A3E		40k	Radio France International splattering down to 7185 kHz
DK2OM	10100,8	ady	dly	09	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	09	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10112,0	0812	09	09	I		PSK8A	2400	2400	Stanag-4285 – 600 bps long - Rome
DK2OM	10113,0	vt	vd	09	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0717	30	09	RUS		F1B	100	1000	CIS14 – Moscow - daily
DK2OM	10115,0	vt	dly	09	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “201” “XXZ” – Western Sahara
DK2OM	10115,0	0813	13	09	RUS		F1B	100	500	Moscow
DK2OM	10116,0	1910	26	09	RUS		F1B	50	250	Moscow
DK2OM	10116,5	---	--	09	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10121,0	1438	06	09	RUS		F1B	75	250	Moscow
DK2OM	10122,0	0909	10	09	CHN		FMOP		50k	OTH radar – 43 sps - 10095 – 10145 kHz
DK2OM	10123,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” ”CM2” “ESA” – Algerian Airforce
DK2OM	10123,0	1632	26	09	FEa		USB			Far East male persons
DK2OM	10123,0	1456	06	09	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	10124,3	1556	27	09	CHN		PSK4A	75	2250	10124.275 kHz center - PRC4+4 – traffic and idle – daily – various times
DK2OM	10129,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10131,0	1530	05	09	RUS		F1B	75	250	Jekaterinburg
DK2OM	10132,0	vt	vd	09	F		USB			French amateurs not respecting bandplans
DK2OM	10133,0	0925	20	09	RUS		PSK2A	120	2600	AT3004D - Sevastopol
DK2OM	10134,0	1849	02	09	MRC		USB			Moroccan fishery
DK2OM	10136,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10144,0	ady	dly	09	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,5	vt	dly	09	SUI	HB9MHB	FSK8	125	1750	ALE, “HBMHB” - just for info - daily
DK2OM	10145,5	0908	19	09	TWN AUS	BV4AS	FSK8	125	1750	ALE, “BV4AS” “VK4SAA” – just for info!
DK2OM	10148,0	1255	02	09	AUS		FMOP		10k	Australian OTH radar JORN – 20 and 23 sps – intro tones - 10148 – 10158 kHz
DK2OM	13995,0	0812	11	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh – up to 14001.5 kHz
DK2OM	14000,0	1627	08	09	FEa		USB			pirates from Java Sea - daily
DK2OM	14000,0	1850	25	09	MRC		USB			Moroccan fishery
DK2OM	14001,8	1253	21	09	S		PSK8A	2400	2400	Stanag-4285 - Gotland
DK2OM	14008,0	0750	14	09	RUS		F1B	50	500	Moscow – also 26.09.2016 at

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										1041 utc
DK2OM	14026,0	0830	17	09	RUS		PSK2A	120	2600	AT3004D – traffic and submode idle - Moscow
DK2OM	14030,0	vt	vd	09	CHN		FSK8	125	1750	ALE, “Y” “473” “853”
DK2OM	14052,0	0738	17	09	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	14075,0	0900	16	09	CHN		FMCW		160k	Chinese broadband OTH radar – 14075 – 14235 kHz – 10 sps
DK2OM	14098,5	1252	20	09	CHN		OFDM PSK4B	44.45	2300	PRC 39 modem – NW China
DK2OM	14100,0	vt	dly	09	ALG	no ITU	FSK8	125	1750	ALE, “6206” “6204” “6212” “6202” “6203” “6207” “6217” “MTL” “IJ” – Mauritanian border – daily, all day
DK2OM	14100,0	---	--	09	F		FMCW		20k	French OTH burst radar, 6 sps, similar Codar sounding, South France
DK2OM	14104,0	0803	09	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14105,0	1253	05	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh
DK2OM	14108,0	---	--	09	RUS		A1A			“BXCS de 9KHQ” - RUS MIL area of Moscow – many spurious emissions
DK2OM	14109,0	1131	28	09	TWN	HAM	FSK8	125	1750	ALE, “BV4AS” – daily - just for info!
DK2OM	14109,0	vt	vd	09	INS	HAM	FSK8	120	1750	ALE, “YD00XH3” – just for info!
DK2OM	14109,0	vt	dly	09	S HRV D		FSK8	125	1750	ALE, “SM3FXL” “9A4OS” “9A3BRV” “DK0ESD” - just for info!
DK2OM	14111,0	1300	03	09	CHN		FSK8	125	1750	ALE, “201”
DK2OM	14111,0	0836	17	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14113,0	1232	02	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh – also 16.09.2016 at 0825 utc
DK2OM	14114,0	1345	08	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14132,0	0728	06	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh – splatters covering the whole band
DK2OM	14133,0	0904	02	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh – also 18.09.2016 at 0740 utc
DK2OM	14135,0	0734	04	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14135,0	1322	07	09	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps – Gorodezh – also 13.09.2016 at 1156 utc
DK2OM	14136,5	1123	26	09	CHN		OFDM PSK4B	44.45	2300	PRC 39 modem and voice traffic on USB – West-China
DK2OM	14160,0	vt	dly	09	MRC		FSK8	125	1750	ALE, “9204” “9228” “9236”
DK2OM	14160,0	0829	16	09	RUS		F1B	75	250	Moscow
DK2OM	14180,0	0913	01	09	RUS	RDL	F1B	50	200	RUS Navy - Sevastopol - daily
DK2OM	14192,0	vt	dly	09	RUS		F1B	50 75 50 100 100	500 500 200 500 200	RUS navy Kaliningrad - daily
DK2OM	14201,8	1013	02	09	CHN		PSK2	75	2200	PRC 16 tone modem – USB mode – pilot tone 450 Hz - RF 14200.0 kHz - China – Shanghai - daily
DK2OM	14205,0	vt	dly	09	CHN	no ITU	FSK8	125	1750	ALE, “505” “822”
DK2OM	14205,0	0846	25	09	CHN		FMCW		160k	Chinese broadband OTH radar – 10 sps – 100 sec blocks - 14205 – 14365 kHz

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14211,0	0925	08	09	UKR		F1B	50	250	
DK2OM	14219,0	0805	09	09	RUS		FMCW		10k	OTH burst radar Contayner - 10 sps - Gorodezh
DK2OM	14221,0	2026	24	09	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily
DK2OM	14240,0	0855	16	09	RUS		F1B	75	250	Irkutsk
DK2OM	14240,0	0825	23	09	RUS		F1B	50	250	Moscow
DK2OM	14240,7	0856	10	09	CHN		PSK4A	60	2350	PRC 30 tone modem - LSB mode - pilot tone 450 Hz
DK2OM	14242,0	0932	12	09	RUS		PSK2A	120	2600	AT3004D – Novosibirsk
DK2OM	14260,0	vt	dly	09	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14261,0	1248	05	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh
DK2OM	14272,0	---	--	09	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14278,0	0745	14	09	RUS		F1B	75	250	Moscow
DK2OM	14288,0	1220	06	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps Gorodezh – long lasting
DK2OM	14295,0	vt	dly	09	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14295,0	1508	01	09	TJK		A3E		9k	3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14300,0	0840	05	09	CHN ?		PSK2A	24.75	24.75	2 x PSK2A – 14300.0 +/- 250 Hz – 60 deg from DL
DK2OM	14301,8	---	--	09	CHN		PSK2	75	2200	PRC 16 tone modem – USB mode – pilot tone 450 Hz - RF 14300.0 kHz - China – Shanghai – daily – all day
DK2OM	14302,0	1609	19	09	RUS		FMCW		13k	OTH radar Contayner - 50 sps – Gorodezh
DK2OM	14330,0	vt	dly	09	TWN		FSK8	125	1750	ALE, “BV4”
DK2OM	14334,0	vt	vd	09	CHN	no ITU	FSK8	125	1750	ALE, “249” “255” “763”
DK2OM	14340,0	---	--	09	RUS		PSK2A	120	2600	AT3004D – Vladivostok with spurious emissions +/- 35 kHz and +/- 70 kHz - daily
DK2OM	14340,0	vt	vd	09	CHN		FSK8	125	1750	ALE, “106” “591”
DK2OM	14346,0	vt	dly	09	THA	HSOZEA	A1A			HSOZEA beacon – 14345.950 kHz - every 5 minutes – daily - just for info!
DK2OM	14346,0	vt	dly	09	POR		FSK8	125	1750	ALE, “CT2IXQ” just for info – various times, daily
DK2OM	14347,0	---	--	09	UKR		A3E			female voice with encrypted msgsg – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne
DK2OM	14351,7	---	--	09	E		OFDM PSK4A	30	2700	OFDM 73 + intro tone – HFD+VL - experimental transmissions – Las Palmas – just for info!
DK2OM	18080,0	0600	dly	09	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18100,0	vt	dly	09	MRC	no ITU	FSK8	125	1750	ALE, “A2” “A4” “A5” “A7” “S6” – “C3” “G401” “CD” “09” “G2” “LG6” “G301” “ELJADIDNET4” - daily, various times
DK2OM	18106,0	vt	vd	09	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18107,0	1259	18	09	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – Russian navy – shared band!
DK2OM	18117,5	vt	vd	09	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	09	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	18150,0	---	--	09	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	vt	vd	09	INS		USB			Indonesian pirates - daily
DK2OM	21000,0	---	--	09	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	21000,0	---	--	09	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21000,0	---	--	09	F		FMCW			French OTH burst radar – every 15 minutes – South France
DK2OM	21000,0	0646	20	09	MLD		USB			male net – Maldiv Islands
DK2OM	21002,2	---	--	09	SDN	!0000 !9999 !8888	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21096,0	0802	17	09	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21096,0	vt	vd	09	G		FSK8	125	1750	ALE, “M1DFO” – just for info!
DK2OM	21131,0	vt	vd	09	CHN	no ITU	FSK8	125	1750	ALE, “A92” “L02” – Chinese diplo
DK2OM	21145,0	vt	dly	09	MRC	no ITU	FSK8	125	1750	ALE, “B301”, “C3”, “IR4” “T4” “E4” “A2” “CD” “K3” “KB2” “J5” “GS4” “R3” – various times, daily
DK2OM	21145,8	ady	dly	09	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21160,0	---	--	09	RUS		F1B	100	2000	4th from 5290 kHz (500 Hz shift) – St. Peterburg
DK2OM	21190,0	---	--	09	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow - daily
DK2OM	21226,0	0949	06	09	AUS		FMCW		10k	OTH radar JORN in burstmode – 7 sps – 18 sec bursts - introtone
DK2OM	21226,8	0916	08	09	CHN		PSK8A	2400	2400	MIL-188-110A – bursts – 300 bps - China
DK2OM	21244,0	0929	22	09	AUS		FMCW		10k	OTH radar JORN in burstmode – 10 sps - introtone
DK2OM	21271,0	0931	15	09	AUS		FMOP		10k	OTH radar JORN in burstmode – 50 sps – 1.3 sec bursts - introtone
DK2OM	21315,0	0904	13	09	CYP		FMCW		20k	OTH radar Cyprus – 25 sps
DK2OM	21365,0	0851	14	09	CHN		FMCW		10k	OTH burst radar – 48 sps – 5.3 sec bursts – every 45 sec
DK2OM	21396,0	0932	08	09	RUS		F1B	75	500	also 14.09.2016 – 0955 utc – from 10698 kHz - Omsk
DK2OM	21400,0	---	--	09	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow - daily
DK2OM	21409,5	---	--	09	RUS		F1B	100	2000	F1B 100 / 2000 - CIS14 – harmonic from 10704.75 - Jekaterinburg, RUS - daily
DK2OM	21436,0	---	--	09	RUS		PSK2A	120	5200	AT3004D – harmonic from 10718.0 kHz - Sevastopol
DK2OM	21438,0	vt	dly	09	RUS	RCV	A1A			RIP90, RCV, RGX94 - RUS Navy Sevastopol - daily
DK2OM	21440,0	1024	06	09	CHN		A3E		15k	splattering down to 21440 kHz – Radio Free Asia and CNR1 (Chinese jammer)
DK2OM	21446,0	ady	dly	09	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	ady	dly	09	FIN		A3E			time signal Helsinki – daily, all day – just for info!
DK2OM	28000,0	vt	vd	09	B		A3E			Brazilian CBers – 28000 – 28325
DK2OM	28000,0	vt	dly	09	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28000,0	2100	07	09	G		F3E			UK CBers with roger beep
DK2OM	28010,1	---	--	09	POR		F1B	51	300	F1B bursts – west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28025,0	---	--	09	POR		F1B	51	300	F1B bursts – 28025.050 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28030,0	---	--	09	POR		F1B	51	340	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28045,0	---	--	09	POR		F1B	51	280	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28050,0	---	--	09	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28051,5	---	--	09	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28060,0	---	--	09	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,1	---	--	09	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28065,8	---	--	09	GAB		A3E		980	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon – daily and all day
DK2OM	28075,0	---	--	09	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28085,0	---	--	09	POR		F1B	51	300	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28090,1	---	--	09	POR		F1B	51	320	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28100,2	---	--	09	POR		F1B	51	300	F1B bursts - 28100.780 kHz - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28102,1	---	--	09	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28125,0	---	--	09	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28146,0	vt	vd	09	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28200,0	---	--	09	POR		F1B	51	330	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28224,4	---	--	09	GAB		A3E			carrier and dots +/- 770 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28249,6	---	--	09	GAB		A3E		1380	carrier and dots +/- 745 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28250,5	---	--	09	GAB		A3E		1000	carrier and dots +/- 500 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28275,1	---	--	09	AF		F1B	51	320	F1B bursts -Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28312,5	vt	vd	09	POR	CT2IXQ	FSK8	125	1750	ALE. “CT2IXQ” – just for info
DK2OM	28315,0	---	--	09	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoys - daily
DK2OM	28335,0	vt	vd	09	E		F3E			Spanish CBers with roger beeps talking about echo-microphones
DK2OM	28345,1	---	--	09	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	28435,0	----	--	09	E		F1B	81.9	140	Datawell-buoy "Waverider" – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28459,8	----	--	09	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28459,9	---	--	09	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28499,8	---	--	09	MEa		F1B	81.9	140	Datawell-buoy "Waverider" – 28499.875 kHz – Persian Gulf
DK2OM	28701,1	---	--	09	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28745,3	---	--	09	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28751,2	---	--	09	GAB		A3E		1080	carrier and dots +/- 540 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28751,3	---	--	09	GBN		A3E		1040	carrier and dots +/- 520 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28801,5	---	--	09	GBN		A3E		1090	carrier and dots +/- 545 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28845,5	---	--	09	GAB		A3E		1060	carrier and dots +/- 530 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28901,1	---	--	09	GAB		A3E		1056	carrier and dots +/- 528 Hz - bursts every 60 sec – Gabon – daily and all day
DK2OM	28960,0	0800	11	09	IRN		FMOP		55k	radar Iran – burst mode – 150 and 313 sps
DK2OM	29114,0	---	--	09	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	---	--	09	E		F1B	81.9	140	Datawell-buoy "Waverider" – 29249.880 kHz – Spain Fuerteventura - daily, all day
DK2OM	29375,0	---	--	09	I		F1B	81.9	140	Datawell-buoy "Waverider" – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	09	IND		F1B	81.9	140	Datawell-buoy "Waverider" – 29387.460 kHz – Indian NW coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	09	USA		F1B	81.9	140	Datawell-buoy "Waverider" – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	---	--	09	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29449.895 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	09	G		F1B	81.9	140	Datawell-buoy "Waverider" – area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	09	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	09	USA		F1B	81.9	140	Datawell-buoy "Waverider" – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29685,0	---	--	09	I		VFT		2300	Italian MIL - Brescia
DK2OM	29699,5	---	--	09	I		VFT		1600	Italian MIL - Brescia

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1847	1615	26	09	POR or MM		USB	2 male Portuguese fishermen, very strong signals.
IRTS	1860	1715	28	09	E or MM		USB	2 male Spanish fishermen. Bad audio.
IRTS	3504	1830	06	09	HOL or MM		USB	2 male Dutch fishermen.
IRTS	3504	1800	07	09	HOL or MM		USB	2 Dutch fishermen. Motor noise. Strong signals.
IRTS	3525,6	1140	09	09	UK or MM		USB	UK fishermen, 2 males. Names Mick and Joe. Ulster accent. They keep complaining about WX.
IRTS	3535	1806 to 1837	01	09	POR or MM		USB	2 male Portuguese fishermen. Huge signals. Will meet again tomorrow.
IRTS	3535	1615	25	09	UK or MM		USB	UK fishermen. 2 male persons. Scottish accent.
IRTS	3535.5	0753	22	09	F or MM		USB	2 male French fishermen.
IRTS	3536.5	1440	22	09	E or MM		USB	2 male Spanish fishermen. Very bad audio, but extremely strong signals.
IRTS	3550	1745 to 1810	01	09	F or MM		USB	2 French fishermen. Very strong signals.
IRTS	3550	1145	11	09	F or MM		USB	2 male French fishermen.
IRTS	3550	0530	22	09	F or MM		USB	2 male French fishermen.
IRTS	3596	1750 to 1805	01	09	UK or MM		USB	UK fishermen. Ulster accent. One is called Jim. Loud motor noise in the background.
IRTS	3610	1730	06	09	HOL or MM		USB	2 male Dutch fishermen. Typical motor noise in background.
IRTS	3613	1200	04	09	E or MM		USB	2 male Spanish fishermen.
IRTS	3654	0630	08	09	POR or MM		USB	2 male Portuguese fishermen. Strong signals. Very bad audio on both sides.
IRTS	3654	1555	18	09	POR or MM		USB	2 Portuguese male fishermen. Huge signals.
IRTS	3685	1100	01	09	E		Cry2001	Spanish fishermen
IRTS	3739	0825	10	09	POR or MM		USB	2 male Portuguese fishermen.
IRTS	3747	1800	30	09	POR or MM		USB	2 male Portuguese fishermen.
IRTS	3776,5	1727 to 1755	28	09	IRL or MM		USB	2 Irish fishermen. Cork accent. One of them is called Colum, the other John. Mentioned: Castletown. John says: " Talking to Brendan Ryan about fish price today. " "I'll give you a shout later around 9 ! "
IRTS	3776.5	1115 to 1128	22	09	IRL or MM		USB	2 male Irish fishermen. Names: Colum and Padraic. Waterford and Cork accent. Usual quota of "fuck" and "shyte". Plenty of complains about everything. Fed up with the need for a licence for everything." I'll give you a shout around half past four !"
IRTS	3777.5	1600	11	09	F or MM		USB	2 male French fishermen.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	5316	1650	18	09	E or MM		USB	2 male Spanish fishermen.UK allocation.
IRTS	5330	1230	16	09	F or MM		USB	2 French male fishermen. On EI spot frequency.
IRTS	5330	1345	17	09	F or MM		USB	2 male French fishermen. EI spot frequency.
IRTS	5332	0255	09	09	E or MM		USB	2 Spanish fishermen. Very low signals. EI allocation.
IRTS	5347	2100	09	09	POR or MM		USB	2 male Portuguese fishermen. Strong signals. Inside new HAM allocation on 5 MHz.
IRTS	5354	0930	24	09	E or MM		USB	2 Spanish fishermen, very strong signals. HAM 5 MHz allocation.
IRTS	5354	1550 to 1700	28	09	E or MM		USB	A group of at least 4 male Spanish fishermen. One of them is around the Balearic Islands, another one between Sardinia and the Italian mainland. One was called Avelino. All very clear audio. Motor noise on all ships in the background. Signals of all ships 59 plus plus. Inside 5 MHz HAM allocation.
IRTS	5355	1600	09	09	F or MM		USB	2 male French fishermen. Loud motor noise. Lots of signing and laughter. Inside new HAM allocation.
IRTS	5360	1945-2000	04	09	POR or MM		USB	2 Portuguese fishermen. Loud motor noise in the background. Huge signals. Inside new HAM allocation.
IRTS	5370	1704 to 1815	28	09	POR or MM		USB	2 male Portuguese fishermen. UK allocation.
IRTS	5385	1706 to 1715	28	09	E or MM		USB	2 male Spanish fishermen.UK allocation.
IRTS	5386	1825	03	09				Radar from 5386 to 5417 KHz. Very strong. Inside UK 5 MHz allocation.
IRTS	5400	0710	26	09	E or MM		USB	2 male Spanish fishermen. EI spot frequency.
IRTS	5398.5	1755	30	09				Radar from 5390 to 5400 KHz. EI spot frequency on 5 MHz.
IRTS	7000	2000	17	09	RUS		AM	Buzzer. Every day, all day.
IRTS	7050	1700	18	09	RUS or UKR		LSB	Ukrainian- Russian radio war. Every day.
IRTS	7055	1705	18	09	UKR or RUS		LSB	Ukrainian- Russian radio war. Daily show.
IRTS	7160	1930	28	09				Radar from 7160 to 7191 kHz. Massive signal.
IRTS	7175	1530	28	09	ETH			Jamming signal from Ethiopia directed at Eritrea.
IRTS	10121	0830	11	09			USB	2 male voices chatting in Arabic. Maghreb accent. Probably MRC fishermen.
IRTS	10144	1710	28	09				Radar from 10144 to 10175 KHz outside the HAM allocation.
IRTS	14094	1205	29	09				Radar from 14094 to 14128 KHz. Very strong.
IRTS	14110	1045	06	09				Radar from 14110 to 14148 KHz. Persistent and very strong.
IRTS	14113	1245	17	09				Radar from 14113 to 14151 KHz. Big signal.
IRTS	14116	0915	02	09				Radar from 14116 to 14150 KHz.
IRTS	14249	1200	07	09				Radar from 14249 to 14291 KHz. Strong and persistent.
IRTS	14256	1822	29	09				Radar from 14256 to 14271 KHz, on and off.
IRTS	14270	1230	06	09				Radar from 14270 to 14308 KHz. Persistent and strong.
IRTS	18079	1100	22	09				Radar from 18079 to 18106 KHz. Very strong signal.
IRTS	18159	1100	11	09				Radar from 18159 all the way to 18195 KHz outside the HAM allocation. Huge signal.
IRTS	21196	1250	27	09				Radar from 21196 to 21220 KHz.

KARS – Kuwait – 9K2RR (Faisal)**MRASZ – Hungary - HA7PL (Laci)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
MRASZ	3509,0	1825	1	9			PSK2			AT3004D
MRASZ	3531,0	1759	12	9			PSK2			AT3004D
MRASZ	3534,9	1800	12	9			N0N			
MRASZ	3548,0	1830	21	9			PSK2			AT3004D
MRASZ	3583,5	1836	20	9			PSK2			AT3004D
MRASZ	3642,0	1817	21	9			PSK2			AT3004D
MRASZ	3658,0	1741	12	9			A1A			"AYOCÄ ZPSÛT ZYMFB"
MRASZ	3696,9	1826	1	9			N0N			
MRASZ	3698,0	1828	21	9			A1A			"ZKGZP ÄXChWÄ WÄPEY"
MRASZ	3699,5	1841	20	9			F1B		200	
MRASZ	3748,0	1820	21	9			F1B	50	500	
MRASZ	3748,0	1826	21	9			A1A			"V V NIL SK"
MRASZ	3750,0	1807	5	9			A1A			"RGR98 de RMW46 ZA3 R K"
MRASZ	3756,0	1806	19	9			USB			
MRASZ	3773,5	1853	20	9			A1A			"8M7F QTC 383 492T2 1.T 383=ZBM 349="
MRASZ	7000,0	1812	5	9			LSB			italian male
MRASZ	7000,0	1711	7	9			N0N			
MRASZ	7000,0	vt	dly	9	RUS		H3E		3,4 k	buzzer
MRASZ	7016,0	1432	21	9			F1B		250	
MRASZ	7016,0	1217	23	9			F1B		250	
MRASZ	7020,0	1756	19	9			F1B		250	
MRASZ	7031,0	1757	19	9			N0N			
MRASZ	7050,0	vt	dly	9			LSB			russian/ukrainian, chaos, music, curse
MRASZ	7055,0	1810	21	9			PSK2			AT3004D
MRASZ	7055,0	vt	dly	9			LSB			russian/ukrainian, chaos, music, etc
MRASZ	7080,0	1803	12	9			F1B		200	
MRASZ	7080,0	1800	19	9			F1B		200	
MRASZ	7090,5	1801	12	9			PSK2			AT3004D
MRASZ	7114,0	1800	19	9			F1B		200	
MRASZ	7116,5	1954	7	9			N0N			
MRASZ	7117,0	1817	7	9			F1B		200	
MRASZ	7117,0	1838	7	9			A1A			"V" string
MRASZ	7117,0	1844	7	9			A1A			"5AXP de G0EBS K" "BK BK RPT AA"
MRASZ	7120,0	1819	dly	9	SOM		A3E			Radio Hargaysa
MRASZ	7170,0	1922	28	9			OTHR			7150-7190 kHz
MRASZ	7175,0	1802	19	9	ERI		A3E			Radio Eritrea, hrd: 20, 21
MRASZ	7175,0	1428	20	9			F1B		250	
MRASZ	7176,0	1811	21	9			F1B		250	
MRASZ	10145,0	1819	1	9			OTHR			10145-10150 kHz
MRASZ	14180,0	1821	1	9			F1B		200	
MRASZ	14192,0	1935	1	9			F1B		500	hrd: 28
MRASZ	14240,0	1213	23	9			F1B		250	
MRASZ	14274,1	1212	23	9			F1B		400	
MRASZ	14295,0	vt	dly	9	TJK		A3E			Radio Tajik, 3rd. harmonic
MRASZ	18107,0	1616	12	9			F1B		200	

OEVSV – Austria – OE3GSA (Gerd)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
oevsv	14015.0	0526	15	09	BY	unid	J3E			chinese male voice
oevsv	14015.0	0607	19	09	unid	unid	J3E			mixed with dig. transmissions
oevsv	14050.0	0513	23	09	unid	unid	F3E			RTTY fast
oevsv	14050.0	0700	01	09	unid	unid	FMCW			OTHR
oevsv	18080.0	0735	01	09	BY		A3A			old friends - chinese BC
oevsv	18080.0	0526	15	09	BY		A3A			as almost every day

PZK – Poland – SP9BRP (Jan)**REF 1 – France – F5MIU (Francis) - F5JBR (Andre)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	1888.0	0201	07	09	ITA	Civitavecchia (IPD)	USB			Maritime Weather Transmissions
REF	3500.5	1719	09	09	RUS	RJD99	CW			RJD99 Wkg RMU (RMU de RJD99 QTC SML) in Bcast
REF	3500.5	1735	10	09	RUS	RJD56	CW			RJD56 Wkg REE5 (comms checks and QTCs) in Dx
REF	3500.5	1501	24	09	RUS	RJD99	CW			RJD99 Wkg RAS82 RAY85 RBC89 RBE99 (comms checks and QtcS SML) in Duplex – For information the Qsx is on 4619.5 kHz
REF	3500.5	0511	27	09	RUS	RJD99	CW			RJD99 Wkg RMB81 RAS82 RAY85 RBC89 RBE99 (comms checks and QtcS SML) in Duplex – For information the Qsx is on 4619.5 kHz AND send weather messages for RMU (collective callsign) in Bcast
REF	3513.0	1642	11	09	RUS	KARTA-60	LSB			CARTA-60 calling VOLTA-68 ; BORDER-74 ; PALMIR-98 (calling and comms checks) in Dx
REF	3513.0	1641	11	09	RUS	KARTA-60	LSB			CARTA-60 calling VOLTA-68 ; BORDER-74 ; PALMIR-98 (calling and comms checks) in Dx
REF	3513.0	1645	22	09	RUS	Plaz-66	LSB			CARTA-60 calling PILOT-81 ABOROK-42 (calling and comms checks) in Dx
REF	3523.0	1557	13	09	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	3525.0	0448	14	09	RUS	TUVU	CW			TUJU Wkg 7 outstations (calling and exchanges QSA) in Dx – For information : Qsx on 3350 kHz
REF	3525.0	1810	17	09	RUS	TUVU	CW			TUJU Wkg 7 outstations (calling and exchanges QSA and QTCs – Validity callsigns : 10 days : change the 1, 11 and 21 of each month) in Dx – For information : Qsx on 3350 kHz
REF	3525.0	1800	22	09	RUS	BLNO	CW			BLNO Wkg 7 outstations (calling and exchanges QSA and QTCs – Validity callsigns : 10 days : change the 1, 11 and 21 of each month) in Dx – For information : Qsx on 3350 kHz

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	3525.0	1802	26	09	RUS	BLNO	CW			BLNO Wkg 7 outstations (calling and exchanges QSA and QTCs : groups 5 figures – Validity callsigns : 10 days : change the 1, 11 and 21 of each month) in Dx – For information : Qsx on 3350 kHz
REF	3546.0	1656	21	09	RUS	Russian Military	CIS-12/AT3 004D/ USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3548.0	0315	07	09	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	3543.5	1703	11	09	RUS	HV5N	CW			HV5N (probably Collective callsign) comms checks in Broadcast (Send : HV5N QLW QRK ? QSA ? QXS = (REPEAT 2 TIMES) and AR) : For information Same transmission on 2471 kHz
REF	3548.0	1711	11	09	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	3543.5	1706	12	09	RUS	HV5N	CW			HV5N (probably Collective callsign) comms checks in Broadcast (Send : HV5N QLW QRK ? QSA ? QXS = (REPEAT 2 TIMES) and AR) : For information Same transmission on 2471 kHz
REF	3552.0	0342	09	09	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	3552.0	1630	11	09	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	3568.0	1714	26	09	RUS	Russian Military	CIS-12/AT3 004D/ USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3580.0	1417	24	09	RUS	Russian Military	CIS-12/AT3 004D/ USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3580.0	1713	26	09	RUS	Russian Military	CIS-12/AT3 004D/ USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3584.0	1500	15	09	RUS	YFJA	CW			YFJA send QTCs for YWD7 (probably fixed callsign) in Broadcast
REF	3590.0	1730	16	09	RUS	Russian Military	CIS-12/AT3 004D/ USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3592.0	1139	17	09	RUS	Russian Military	CIS-12/AT3 004D/ USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3594.5	1731	16	09	RUS	RJD99	CW			RJD99 send weather messages (for RMU : collective callsign) and Wkg Ships (comms checks and QTCs : with Ship Locations) in Duplex – For information the Qsx is on 4537.5 kHz

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	3642.0	1635	13	09	CHN	3A7D	CW			3A7D calling DKG6 (Only : DKG6 de 3A7D V)
REF	3670.0	1431	27	09	RUS	YAVERKA	USB			YAVERKA (RHC86) Calling VESTNIK (RMP) for comms checks in USB Mode (QSU1) in Dx – For information : The Qsx is on 4559
REF	3673.5	1633	08	09	RUS	LUMR	CW			LUMR working 2 outstations (comms checks and QTCs) in Simplex
REF	3673.5	1231	13	09	RUS	LRG1	CW			LRG1 Wkg 2 Outstations (comms checks and QTCs : 5 letters and 5 figures – preamble : 91 49 13 1000 91 = 72727 22512 68573 .../...) in Sx) in Simplex
REF	3673.5	1431	14	09	RUS	LRG1	CW			LRG1 Wkg 2 Outstations (comms checks and QTCs : 5 letters and 5 figures – preamble : 91 49 13 1000 91 = 72727 22512 68573 .../...) in Sx) in Simplex
REF	3684.0	1617	17	09	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3693.0	0613	08	09	RUS		CW			VVV = ÛFQZD BchÔKC ÂREIJ PÛFQP ... / ... AR et VVV = ChÔQLE LVHJW ÛFQGX ... / ... AR et VVV = XBOTN CÂLVS JPWUQ ZXDTM ... / ... AR (For information : same transmission on 3693, 5207.5 and 6880 kHz)
REF	3720.0	1421	24	09	RUS	MFWU	CW			MFWU Wkg 3 outstations (MSW5 TG5R SMPR and 5QVV (collective callsign) (comms checks and QTCs) in Sx – For information : Network heard with the same callsigns in March and April 2016: So probably fixed callsigns
REF	3736.0	1444	23	09	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3738.0	1755	16	09	RUS	Russian Military	CIS-12/AT3 004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3736.5	1716	22	09	RUS	FTLM	CW			FTLM Wkg 4 outstations (comms checks : calling and exchanges QSA) in Simplex
REF	3741.5	1715	22	09	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	3741.5	1414	24	09	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	3750.0	1800	05	09	RUS	RMW46	CW			RMW46 working 14 outstations RGR88 ; RGR89 ; RGR90 ; RGR91 ; RFH46 ; RGR92 ; RGR93 ; RGR94 ; RGR95 ; RGR96 ; RGR97 ; RDQ81 ; RGR98 RGR99 (Use ZSA for Checks) in Simplex : The frequency is the Night Frequency

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	3750.0	1800	06	09	RUS	RMW46	CW			RMW46 working 14 outstations RGR88 ; RGR89 ; RGR90 ; RGR91 ; RFH46 ; RGR92 ; RGR93 ; RGR94 ; RGR95 ; RGR96 ; RGR97 ; RDQ81 ; RGR98 RGR99 (Use ZSA for Checks) in Simplex : The frequency is the Night Frequency
REF	3750.0	1800	15	09	RUS	RMW46	CW			RMW46 working 14 outstations RGR88 ; RGR89 ; RGR90 ; RGR91 ; RFH46 ; RGR92 ; RGR93 ; RGR94 ; RGR95 ; RGR96 ; RGR97 ; RDQ81 ; RGR98 RGR99 (Use ZSA for Checks) in Simplex : The frequency is the Night Frequency
REF	3750.0	1800	16	09	RUS	RMW46	CW			RMW46 working 14 outstations RGR88 ; RGR89 ; RGR90 ; RGR91 ; RFH46 ; RGR92 ; RGR93 ; RGR94 ; RGR95 ; RGR96 ; RGR97 ; RDQ81 ; RGR98 RGR99 (Use ZSA for Checks and Qtcs : 5 figures) in Simplex : The frequency is the Night Frequency
REF	3750.0	1800	24	09	RUS	RMW46	CW			RMW46 working 14 outstations RGR88 ; RGR89 ; RGR90 ; RGR91 ; RFH46 ; RGR92 ; RGR93 ; RGR94 ; RGR95 ; RGR96 ; RGR97 ; RDQ81 ; RGR98 RGR99 (Use ZSA for Checks and Qtcs : 5 figures) in Simplex : The frequency is the Night Frequency
REF	3755	1644	21	09	RUS	Russian Military	CW			Responses 6 outstations (comms checks and QTCs : AAAAA) - For information : The Net Station 2ZVA is on 3348 kHz and the network use daily callsigns
REF	3766.0	0236	07	09	RUS	2MMZ	CW			2MMZ working 4 outstations (comms checks and QTCs) in Duplex
REF	3766.0	1700	13	09	RUS	HVN6	CW			HVN6 Wkg 4 Outstations (comms checks and QTCs : 11111) in Dx (For information : Qsx on 3311 kHz)
REF	3775.0	0234	07	09	RUS	Russian Military	CW			Responses 6 outstations (comms checks) - For information : The Net Station G7P9 is on 3348 kHz
REF	3775.0	1648	13	09	RUS	Russian Military	CW			Responses 6 outstations (comms checks) - For information : The Net Station 8GN5 is on 3348 kHz
REF	3775.0	1743	16	09	RUS		CW			Responses 6 outstations (comms checks and QTCs : AAAAA) - For information : The Net Station 9SYA is on 3348 kHz
REF	3775.0	1651	19	09	RUS	Russian Military	CW			Responses 6 outstations (comms checks and QTCs : AAAAA) - For information : The Net Station NY1H is on 3348 kHz and the network use daily callsigns
REF	3775.0	1718	22	09	RUS	Russian Military	CW			Responses 6 outstations (comms checks and QTCs : AAAAA) - For information : The Net Station GMEZ is on 3348 kHz and the network use daily callsigns

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REF	3777.0	1647	13	09	CHN	RIS9	CW			RIS9 wkd M8JF (Only : M8JF de RIS9 V)
REF	3773.5	1752	10	09	RUS	9PV2	CW			9PV2 Wkg 4 outstations (comms checks) in Sx
REF	3778.0	0813	24	09	RUS	Russian Military	CIS-12/AT3 004D/ USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	3789.0	1516	15	09	RUS	Russian Air Defense	LSB			Tracking in Russian Voice
REF	3789.0	1411	23	09	RUS	Russian Air Defense	LSB			Tracking in Russian Voice
REF	3789.0	1203	26	09	RUS	Russian Air Defense	LSB			Tracking in Russian Voice
REF	3797.0	0319	07	09	RUS	RCV	CW			RCV send messages (for RIC87) in Broadcast
REF	3797.0	1832	10	09	RUS	RCV	CW			RCV send messages (for RIC87) in Broadcast
REF	3797.0	1831	12	09	RUS	RCV	CW			RCV send messages (for RIC87) in Broadcast
REF	3797.0	1536	15	09	RUS	RCV	CW			RCV send messages (for RIC87) in Broadcast
REF	3797.0	1647	21	09	RUS	RCV	CW			RCV send messages (for RIC87) in Broadcast
REF	3797.0	1413	23	09	RUS	RCV	CW			RCV send messages (for RIC87) in Broadcast
REF	3797.0	0421	27	09	RUS	RCV	CW			RCV send messages (for RIC87) in Broadcast
REF	3799.0	1734	11	09	RUS	WASSAM-26	USB			WASSAM-26 calling PARKIR-51 ASTRA-79 in Simplex
REF	7016.0	1439	22	09	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	7016.0	0841	23	09	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	7016.0	0843	24	09	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	7016.0	0653	25	09	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	7020.0	0844	24	09	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	7020.0	0653	25	09	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
R.E.F.	7050	1740	20	9			LSB		5kHz	BCL + music+QRM+russian
R.E.F.	7055	1740	20	9			LSB		5kHz	Music in LSB S9+20
REF	7080.0	0355	09	09	RUS	Russian Military	CIS-12/AT3 004D/ USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	7088.5	1602	12	09	RUS	Russian Military	CIS-12/AT3 004D/ USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	7088.5	0537	13	09	RUS	Russian Military	CIS-12/AT3 004D/	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
							USB	el		
REF	7088.5	1333	14	09	RUS	Russian Military	CIS-12/AT3004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	7108.0	0332	07	09	RUS	Russian Military	CIS-12/AT3004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode
REF	7134.0	1634	12	09	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces
REF	7160.0	0628	20	09	RUS	RMW32	CW			RMW32 Wkg outstations RFH39 ; RFH40 ; RFH41 ; RFH42 ; RFH44 ; RFH45 ; RFH47 ; RFH48 ; RFH49 ; RFH65 ; RFH66 (comms checks : use ZSA for QSO) in Simplex
R.E.F.	7160	1509	29	9			fmcw		20kHz	OTH radar S9 +10
R.E.F.	7175	1633	19	9		Unident.	AM		20kHz	AM broadcasting (spurious?) S9+10
R.E.F.	7175	1710	26	9		Unident.	AM		20kHz	AM broadcasting Arabic music S9+20
R.E.F.	7175	1710	26	9		Unident.	AM		20kHz	AM broadcasting Arabic music S9+10
REF	7176.0	0704	21	09	RUS	Russian Military	F1B	75	250	Encrypted messages – Frequency enabled for traffic in QYT9 Mode
REF	7200.0	1205	20	09	RUS	Russian Military	CIS-12/AT3004D/USB	120 per channel	2700	Encrypted messages – Traffic in QYT4 Mode :Calling in USB mode (no callsign, only comms checks and Traffic in numeric mode QYT4
R.E.F.	10145	1736	20	9			fmcw		20kHz	OTH radar S9+10
R.E.F.	14000	0754	22	9			USB		2.5kHz	Data S8
R.E.F.	14100	1720	5	9			LSB			Voice (music) QRM S7
R.E.F.	14110	0750	16	9			fmcw		30kHz	OTH radar S9
R.E.F.	14130	0751	6	9			fmcw		30kHz	OTH radar S9+ 20 pps, till present at 10h05
R.E.F.	14130	0751	7	9			fmcw		30kHz	OTH radar S9+ 20 pps, still there !
REF	14180.0	1330	16	09	RUS	Russian Navy	F1B	50	200	Encrypted messages – traffic to nuclear forces (Heard : „XXX“ in telegraphy mode and trafic in FSK mode : Probably RDL)
REF	14180.0	1206	20	09	RUS	RDL	F1B	50	200	Encrypted messages – traffic to nuclear forces (Heard : „RDL and Groups 5 Figures“ in telegraphy mode and trafic in FSK mode.
R.E.F.	28960	1519	25	9			fmcw		40kHz	OTHR S8, 2alternate sweeping rate 120 & 180Hz
R.E.F.	29000	1519	25	9			fmcw		40kHz	OTHR S8, 2alternate sweeping rate 40 & 240Hz

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3590	19.16	02	09	E		J3E-U			Spanish fishery w/ CRY2000 vocoder
REP	3600	20.00	03	09	E		J3E-U			Fishery
REP	3640	20.32	01	09	G	XSS	MFSK			Mil Tascom
REP	7004	19.47	19	09			J3E-L			Ola, ola, amateur op, tuning QRO
REP	7015	17.22	08	09			J3E-L			Intruders
REP	7016	18.21	22	09	RUS		F1B	75	250	CIS modem, Russia
REP	7032	18.15	04	09			FMCW	50	17k	OTH Radar
REP	7038	22.20	23	09	RUS	P	A1A			MURMANSK
REP	7056	17.50	21	09			BPSK			AT3004D w/ dit jammer on 3k pilot tone
REP	7120	17.41	16	09	SOM		8k00 A3EGN			Radio Hargaysa
REP	7175	18.33	22	09	ETH		A3E			Radio Eritreia jammed by Radio Ethiopia
REP	7184	19.31	25	09	RUS		FMCW	50	200	OTH radar, Russia
REP	10107	12.11	02	09	MRC		J3E-U			Fishery
REP	10116	22.14	20	09			A3E			Letters Station - 5 letters groups
REP	10134	19.20	02	09	MRC		J3E-U			Moroccan fishery
REP	10135	19.30	06	09			FMCW			OTH radar
REP	10141	18.59	06	09	E		J3E-U			Spanish fishery
REP	14000	19.38	12	09	B		J3E-U			Brazilian intruders
REP	14000	09.56	20	09			J3E-U			Unid language intruders
REP	14000	19.32	24	09	B		J3E-U			Brazilian intruders
REP	14005	10.50	11	09			F1B	300	425	RY RY RY
REP	14029	10.31	27	09			BPSK	120	x 12	AT3004D modem, 12x120bpsk 3k pilot
REP	14113	13.33	05	09			FMCW	50	17k	OTH radar
REP	14115	12.06	29	09			FMCW	50	18k	OTH radar
REP	14133	07.28	07	09			FMCW			OTH radar
REP	14137	09.50	20	09			FMCW			Burst mode OTH radar
REP	14141	21.03	19	09	RUS		F1B	75	400	Navy
REP	14180	09.15	09	09	RUS		F1B	50	200	CIS 36 modem, Russia mil - daily
REP	14185	14.11	26	09	RUS		F1B	50	250	CIS36-50, Russia
REP	14222	07.40	07	09			PSK2	120	x12	AT3004D modem, unid
REP	14270	15.12	02	09			FMCW			Burst mode OTH radar
REP	14282	10.59	17	09	RUS		FMCW	50	18k	Russian OTH radar
REP	14285	10.45	01	09			FMCW			Burst mode OTH radar
REP	18075	13.50	20	09			FMCW	50	20k	OTH radar
REP	21144	13.23	24	09	B		J3E-U			Brazilian intruders, coordinates
REP	28069	17.04	21	09	NZ		A1A			Drifnet buoy
REP	28102	Dly	Dly	09	CPV		F1B	51	300	Enagal GPS buoy, off coast of Cape Verde
REP	28115	20.43	19	09	B		J3E-U			Brazilian truckers, daily
REP	28117	20.38	19	09	B		J3E-U			Brazilian truckers, daily
REP	28120	11.00	07	09	E		F1B	50	200	Enagal buoy
REP	28145	20.37	19	09	B		A3E			Brazilian truckers, daily
REP	28165	12.10	22	09	RUS		F3E			Taxi YL dispatcher
REP	28165	20.36	19	09	B		A3E			Brazilian truckers, daily
REP	28311	17.02	21	09	NZ		A1A			Drifnet buoy
REP	28385	17.02	21	09	NZ		A1A			Drifnet buoy
REP	29135	11.21	22	09	RUS		F3E			Taxi dispatcher
REP	29150	13.03	22	09			F1B	82	160	Datawell buoy
REP	29180	11.54	26	09	RUS		F3E			Taxi dispatcher
REP	29250	12.05	17	09			F1B	82	120	Datawell buoy

RSGB - Great Britain – M0VRR (Vaughan)

SRAL – Finland – OH2BLU (Pekka)

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	6998,0	h24	dly	9	RUS	UiTone	R3E			125 Hz tones
SRAL	7000,0	0730-1817/	*	9		UiCarr	N0N			Days: 7. 17. 18.
SRAL	7006,0	1150	24.	9		UiPTR	F1B			
SRAL	7008,0	1355-1505/	25.	9		UiMUX	PSK2	120	2600	
SRAL	7016,0	h24	*	9		UiPTR	F1B		250	Days: 13. 15. 21. – 26. 30.
SRAL	7018,75	1230-1300	13.	9		UiPTR	F1A		250	5BL
SRAL	7019,88	1010-	2.	9		UiCarr	N0N			

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
		1103/								
SRAL	7020,0	0420-1930	*	9		UiPTR	F1B		250	Days: 23. - 25. 30.
SRAL	7022,0	1425-1430/	22.	9		UiMUX	PSK2	120	2600	
SRAL	7025,0	1120-1200	8.	9		UiMUX	PSK2	120	2600	
SRAL	7027,5				UZB	V	A1A			QSY to 6928,0 kHz
SRAL	7035,0	1545-1615	25.	9		UiPTR	F1B			
SRAL	7037,0	0535-0830	21.	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7039,0	0745-1345	3. 11.	9	RUS	C	A1A			Moscow
SRAL	7039,2	1340	11.	9	RUS	F	A1A			Vladivostok
SRAL	7039,5	1240-1649	11. 12.	9		UiCW	A1A			Hand keying "T T"
SRAL	7055,0	1715	21.	9		UiMUX	PSK2	120	2600	
SRAL	7059,0	1115-1200	15.	9		UiPTR	F1B		250	
SRAL	7066,0	0425-1615	23. - 25.	9		UiPTR	F1B			
SRAL	7072,0	1145-1400	2.	9		UiPTR	F1B		200	
SRAL	7076,0	0915-1800	14.	9		UiPTR	F1B		250	
SRAL	7081,0	0830	17.	9		UiCarr	N0N			
SRAL	7090,5	0430-1930	12. - 14.	9	RUS	UiMUX	PSK2	120	2600	Carr. On 7088,5 kHz
SRAL	7090,5	1135-1155/	13.	9		UiCarr	N0N			
SRAL	7091,5	0810-1930	dly	9	UZB	V	A1A			
SRAL	7099,0	1030-1050	19.	9		UiPTR	F1B		200	
SRAL	7103,0	1300-1320/	21.	9		UiMUX	PSK2	120	2600	
SRAL	7110,0	1745-0600	7. - 9.	9	RUS	UiMUX	PSK2	120	2600	
SRAL	7110,0	1710-1715/	5.	9	F	369	A1A			
SRAL	7114,0	1040-1110	3.	9		UiPTR	F1B			
SRAL	7116,6	1530-1845	19.	9		UiCarr	N0N			
SRAL	7117,0	0545-1045/	*	9	RUS	REA4	F1B/ N0N		1000	Days: 7. 9. 11. - 13. 15. 18. 19. 21. 25.
SRAL	7120,0	0320-0430/	dly	9	SOM	R.Hargeis a	A3E			
SRAL	7120,0	1500-1900/	dly	9	SOM	R.Hargeis a	A3E			
SRAL	7146,6	0300-0500/	30.	9	ERI	VoBME1	A3E			
SRAL	7146,6	1420-1840	29. 30.	9	ERI	VoBME1	A3E			On 30. Carrier 1840 - 2400
SRAL	7150,7	1305-1855	23. 24.	9		UiCW	A3E			Fast MR "QSY"
SRAL	7151,0	0745-1930	2. 3.	9	UKR	UiMUX	PSK2	120	2600	
SRAL	7160,0	0630-1000	20. 21.	9	RUS	RMW32	A1A			5F, 5BL
SRAL	7162,0	1320-1347/	1.	9		UiPTR	F1B		250	
SRAL	7170,0	1250-1400	23.	9		UiPTR	F1B		200	
SRAL	7175,0	0300-0500	*	9	ERI	VoBME2	A3E			Days: 14. 17. - 30.

Society	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	REMARKS
SRAL	7175,0	1430-1850/	*	9	ERI	VoBME2	A3E			Days: 14. 17. – 30. Anthem at 1833 then NON until s/off
SRAL	7176,0	0900-1900	21.	9		UiPTR	F1B		250	
SRAL	7187,0	1845-1930	9.	9		UiMUX	PSK2	120	2600	
SRAL	7190,5	1600-1630	1.	9		UiCarr	N0N			
SRAL	7198,0	1100-1300	9.	9		UiMUX	PSK2	120	2600	
SRAL	7200,0	0930-1300/	dly	9	CHN	CNR1	A3E			Used as jammer on TWN
SRAL	7200,0	1300-1500/	dly	9	MMR	R Myanmar	A3E			
SRAL	7200,0	2245-2400/	dly	9	MMR	R Myanmar	A3E			
SRAL	7 MHz	0430-0445	21.	9	RUS	29B6	FMCW			50Hz / 15 kHz, (WebSDR 7 days)
SRAL	10 MHz			9	RUS	29B6	FMCW			50Hz / 15 kHz (WebSDR 8 days)
SRAL	14008,0	1015	11.	9	RUS	UiPTR	F1B		250	
SRAL	14026,0	0640-1040	3. 26.	9		UiMUX	PSK2	120	2600	
SRAL	14160,0	0740-1200	16. 22.	9	RUS	UiPTR	F1B		250	
SRAL	14180,0	0415-1530	dly	9	RUS	RDL	F1B		200	
SRAL	14192,0	0900-1500	*	9	RUS	UiPTR	F1B		200	Days: 6. 11. – 13.
SRAL	14221,0	0315-0600/	dly	9	KGZ	UiPTR	F1B		200	
SRAL	14295,0	0400-1600	dly	9	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX
SRAL	14 MHz	0730-1415	*	9	RUS	29B6	FMCW			50Hz / 15 kHz, days: 1. 2. 4. 6. 7. 9. 11. 17. 18.
SRAL	14 MHz	0700-1800	dly	9	RUS	UiOTHR	FMCW			10Hz / 15 kHz, 30 sec transmit with 16 min cycle
SRAL	18080,0	0740-0800	*	9	TWN	SOH	A3E			Days: 3. 17. 18. + CHN jammer
SRAL	18 MHz	1345-1350	25.	9	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, days: 20. 26. 29. (WebSDR 12 days)
SRAL	21 MHz	0820-0837/	8.	9	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 10 days)
SRAL	21438,0	/0830-0910	*	9	RUS	RCV	A1A			Days: 3. 11. 14.
SRAL	24 MHz			9		UiOTHR	FMCW			No reports
SRAL	28960,0	0600-1100	*	9	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz , days: 3. 12. 13.
SRAL	28 MHz			9		UiOTHR	FMCW			25/50Hz / 20 kHz
SRAL	28 MHz	0540-1715	*	9	RUS	Taxi disp.	F3E			Days: 3. 9. - 15. 30. 78 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
80 m band informational only! Primary allocation but shared with other also primary allocated services !										
USKA	3525.0 (Center)	2111	27	09			DQPSK	14x75	5k9	LINK 11 CLEW; almost daily (STANAG 5511): ISB Mode
USKA	3530.0	2150	07	09			J7D	12x120	2k7	BPSK; CIS12
USKA	3532.0 VFO USB	2117	27	09			DQPSK	14x75	5k9	LINK 11 CLEW (STANAG 5511)
USKA	3548.0	2147	02	09			F1B	50	200	almost daily
USKA	3549.0	2218	05	09			PSK8	2400	~2k7	MIL188-110A (Hybrid),

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
	VFO USB									preamble 4 tones, 450Hz spacing
USKA	3553.8	2151	02	09			G1D	2400	~2k4	Stanag 4285; PSK8 almost daily
USKA	3570.5			09			F1B	40.5 + 81	250	sometimes also short F1A
USKA	3582.5			09			F1B	50	200	often
USKA	3586.0	2123	27	09			J7D	12x120	2k7	BPSK; CIS12
USKA	3658.0	2125	27	09		V	A1A			Beacon V
USKA	3662.5			09			F1B	75	250	
USKA	3699.0	2227	05	09			J7D	12x120	2k7	BPSK; CIS12
USKA	3712.0	2106	08	09			DQPSK	14x75	5k9	LINK 11 CLEW; DSB mode
USKA	6998.0	2149	03	09			H3E-U Bursts		~3k6	"Buzzer" up to ≥7001.5kHz daily
USKA	7026.0	2118	20	09			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	7027.0	2140	02	09			J7D	12x120	2k7	BPSK; CIS12
USKA	7030.0	2129	06	09			J7D	12x120	2k7	CIS12
USKA	7070.0	2149	29	09		811199	MFSK8	125	1750	MIL 188-141A
USKA	7080.0	2021	08	09			F1B	50	200	
USKA	7089.5	2056	12	09			J7D	12x120	2k7	BPSK; CIS12
USKA	7091.565	2202	03	09	KAZ	V	A1A			Beacon V; with spurious daily
USKA	7112.0 VFO LSB	2132 109	26 27	09			BPSK	30x60Bd	~2k5	Burst system; tone spacing 75 Hz. Preamble 4x PSK4 60Bd, spacing 600Hz; Pilotone at 450Hz
USKA	7117.0	1443	07	09		REA4	F1B	100	1000	ID in F1A (h+40)
USKA	7117.0	2146	07	09			F1B	75	200	
USKA	7120.0	1759	06	09	SOM		A3E		10k	Radio Hargaysa
USKA	7124.0	0639	06	09			J7D	12x120	2k7	BPSK; CIS12
USKA	7135.0	1916	15	09			F1B	50	200	
USKA	7137.0	2103	04	09			F1B	50	200	
USKA	7146.557	1615	30	09			A3E		10k	BC
USKA	7151.0	2144	02	09			J7D	12x120	2k7	BPSK; CIS12
USKA	7171.8	2043	08	09			PSK8	2400	~2k7	MIL 188-141B; waveform BW2
USKA	7174.989	1557	30	09	ERI		A3E		10k	BC; Voice of the broad masses (jammed)
USKA	7175.0	1557	30	09	ETH ?		Noise		≥15k	Jammer
USKA	7186.0	2215	05	09			J7D	12x120	2k7	BPSK; CIS12; with carrier
USKA	7197.0	2048	29	09	TUR	365013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2057	29	09	TUR	344018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2057	29	09	TUR	367013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2102	29	09	TUR	377018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2108	29	09	TUR	306023	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2118	29	09	TUR	318018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2124	29	09	TUR	314013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2124	29	09	TUR	381018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2125	29	09	TUR	361013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2126	29	09	TUR	305013	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2128	29	09	TUR	340018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2132	29	09	TUR	123456	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2133	29	09	TUR	347018	MFSK8	125	1750	MIL 188-141A
USKA	7197.0	2139	29	09	TUR	319018	MFSK8	125	1750	MIL 188-141A
USKA	7200.0	2208	07	09			F1B	50	200	
USKA	10120.0	2141	07	09			FMCW	50 sps	20k	OTHR
USKA	14000.0	1508	07	09			NON			long lasting carrier (strong fading)
USKA	14008.0	1006	28	09			F1B	50	250	often
USKA	14052.0	1128	02	09			J7D	12x120	2k7	BPSK; CIS12
USKA	14114.0	1142	29	09			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	14115.0	1410	16	09			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	14135.0	1257	17	09			OTHR	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	14171.0	1216	29	09			J7D	12x120	2k7	BPSK; CIS12
USKA	14180.0	1330	06	09		RDL	F1A		200	Letters and figures often
USKA	14180.0	1335	06	09			F1B	36+50	200	CIS 36-50 almost daily
USKA	14192.0	1337	12	09			F1B	50	200	
USKA	14201.8	1129	02	09			BPSK	16x75	2k2	Burst system; 16 tones, 2 Pilottones when idling short dots every 0.725s

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	14204.0	0944	09	09			OFDM60	35.55	~2k7	PSK-8B modulated, tone spacing 44.44Hz; pilottone at 3k3
USKA	14239.0	1031	09	09			FMOP	10 sps	~10k	OTHR; only short period
USKA	14241.5	1351	28	09			PSK-8	2000	~2k0	ev. RFSM2400 ?
USKA	14242.0	1117	02	09			J7D	12x120	2k7	BPSK; CIS12
USKA	14261.0	0742	08	09			OFDM60	35.55	~2k7	PSK-4B modulated, tone spacing 44.44Hz; pilottone at 3k3
USKA	14272.0	1019	07	09			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	14281.0	1056	22	09			FMCW	50 sps	~13k	OTHR; occup. BW appx 30k
USKA	14340.0	1006	28	09			J7D	12x120	2k7	BPSK; CIS12 often
USKA	18085.0	1103	22	09			FMCW	50 sps	20k	OTHR
USKA	18095.0	1512	07	09			FMCW		20k	OTHR
USKA	18107.0	0831 0835	08	09		RDL	F1B	36 50	200	CIS 36-50
USKA	18107.0	0836	08	09			F1A		200	letters and figures
USKA	18149.0	0936	21	09			FMOP ?	12.5sps	30k	OTHR
USKA	18150.0	0823	19	09			F1B	100	1000	2nd of 9075 kHz (100Bd 500Hz)
USKA	21353.5	1412	16	09			F1B	600	600	ARQ system
USKA	28306.0	1943	12	09			H3E-U			Unident; roger beeps (no ham)

Veron – Netherlands – PA2GRU (Dick)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	3646.0	19.30	5	9	CIS	UiCW	A1A			5F
VERON	3797.0	19.37	5	9	RUS	RCV	A1A			RIC87 de RCV Prip Noworossijsk 541
VERON	3797.0	19.44	5	9	RUS	RCV	A1A			RIC87 de RCV Prip Noworossijsk 540
VERON	7037.0	23.22	11	9		UiPtr	F1B		200	
VERON	7070.0	06.45	6	9	E	UiILL	J3E-u			Spanish, several male voices, fishery
VERON	7080.0	20.02	11	9		UiPtr	F1B		200	
VERON	7080.0	17.24	13	9	CIS	UiPTR	F1B			Revs/Ptr
VERON	7080.0	20.00	7	9	?	?	F1B		200	revs, ptr
VERON	7117.0	15.41	9	9	RUS	REA4	A1A			5F
VERON	7117.0	17.41	7	9	RUS	REA4	F1A			REA4 07160 99900 5F
VERON	7137.0	17.23	13	9	CIS	UiPTR	F1B			Revs/Ptr also at 17/9 17.25 UTC
VERON	7175.0	18.05	27	9	Eritrea	UiBC	A3E			speak, jammed by Ethiopic Govt
VERON	10102,5	11.19	6	9		UiPTR	F1B			Revs
VERON	14008,0	06.43	5	9		UiPtr	F1B		250	Ptr
VERON	14008,0	09.29	11	9	RUS	UiCAR	NON			carrier S-9
VERON	14008,0	08.43	11	9	CIS	UiPTR	F1B			Carrier/Revs/Ptr
VERON	14014,0	10,14	12	9	CIS	WEGI	A1A			XXX WEGI 63448 WATMAN 1686 7142
VERON	14014,0	10.16	12	9	CIS	THL8	A1A			5BL
VERON	14014,0	10.22	12	9	CIS	WEGI	A1A			XXX WEGI 46587 RV AWEJchIJ 8276 6515
VERON	14014,0	10.34	12	9	CIS	THL8	A1A			WXDN de THL8 ZNB ZEM ZEA ZQT ZHA
VERON	14110,0	14.32	16	9		OTHR	FMCW			radar
VERON	14132,0	07.43	6	9		OTHR	FMCW			radar
VERON	14133,0	09.27	2	9	RUS	OTHR	FMCW			radar
VERON	14135,0	09.44	2	9	RUS	UiMUX	PSK2			12 MPSK AT3004
VERON	14150,0	19.28	11	9	RUS	UiRadar	FMCW		10k	OTHR Contayner; 10sps
VERON	14160,0	08.18	16	9		UiPTR	F1B			Ptr
VERON	14180,0	08.02	13	9		UiPtr	F1B		200	Ptr
VERON	14180,0	11.02	10	9		UiPtr	F1B		200	
VERON	14180,0	13.57	11	9		UiPtr	F1B		200	
VERON	14180,0	11.21	6	9	CIS	UiPTR	F1B			Revs/Ptr
VERON	14180,0	11.33	6	9	RUS	RDL	F1A			RDL 89669 97315 K

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
VERON	14180,0	11.43	6	9	RUS	RDL	F1A			RDL 03882 64643 K
VERON	14180,0	11.44	6	9	RUS	RDL	F1A			RDL 30010 43128 K
VERON	14180,0	14.08	9	9	RUS	RDL	F1A			RDL 62130 30999 K
VERON	14180,0	10.27	12	9	CIS	WEGI	D1A			XXX WEGI 04974 46587 RVAWElchIJ
VERON	14180,0	08.44	15	9	RUS	RDL	F1A			RDL 66427 47053 K
VERON	14180,0	14.13	15	9	RUS	RDL	F1A			RDL 43483 95784 K
VERON	14180,0	17.29	22	9	CIS	WEGI	F1A			UUU XXX WEGI 289 71 02149 POKAZWA
VERON	14180,0	07.40	17	9	RUS	RDL	F1B	50	200	revs, ptr
VERON	14180,0	08.25	17	9	RUS	RDL	F1A		200	5F (6 groups)
VERON	14192,0	08.01	13	9		UiPtr	F1B			Ptr
VERON	14192,0	10.51	10	9	RUS	UiPtr	F1B		250	
VERON	14192,0	19.37	11	9	RUS	UiPtr	F1B		200	Idling
VERON	14192,0	08.38	11	9	CIS	UiPTR	F1B			Revs/Ptr also at 13/9 09.50 UTC
VERON	14240,0	14.24	23	9		UiPTR	F1B			Ptr
VERON	14278,0	08.01	14	9	RUS	UiPtr	F1B		250	Ptr
VERON	21369,0	10.32	10	9	CYP	UiRadar	FMCW		20k	OTHR; 50 sps

The monitoring team of IARU Region 1

credits:

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Many thanks for your interest!

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