



International Amateur Radio Union

Region 1



Monitoring System

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The monthly newsletter for Region 1

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Acknowledgements

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Part 1: News and infos

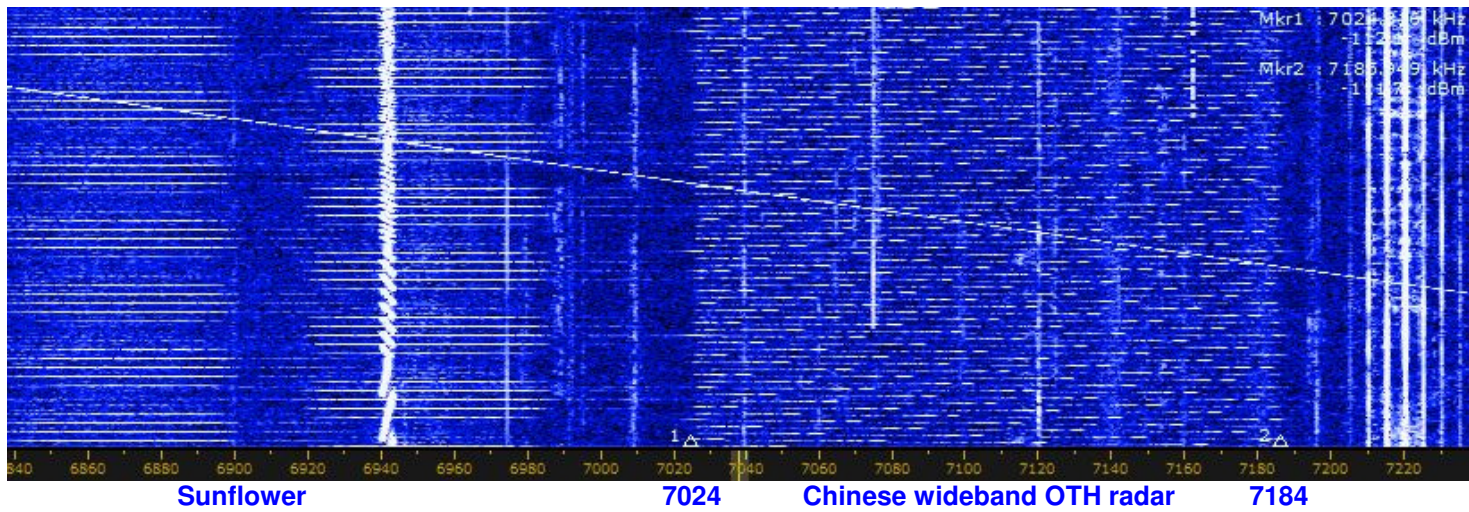
Part 2: Detailed reports of the national co-ordinators

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Part 1: News and Infos

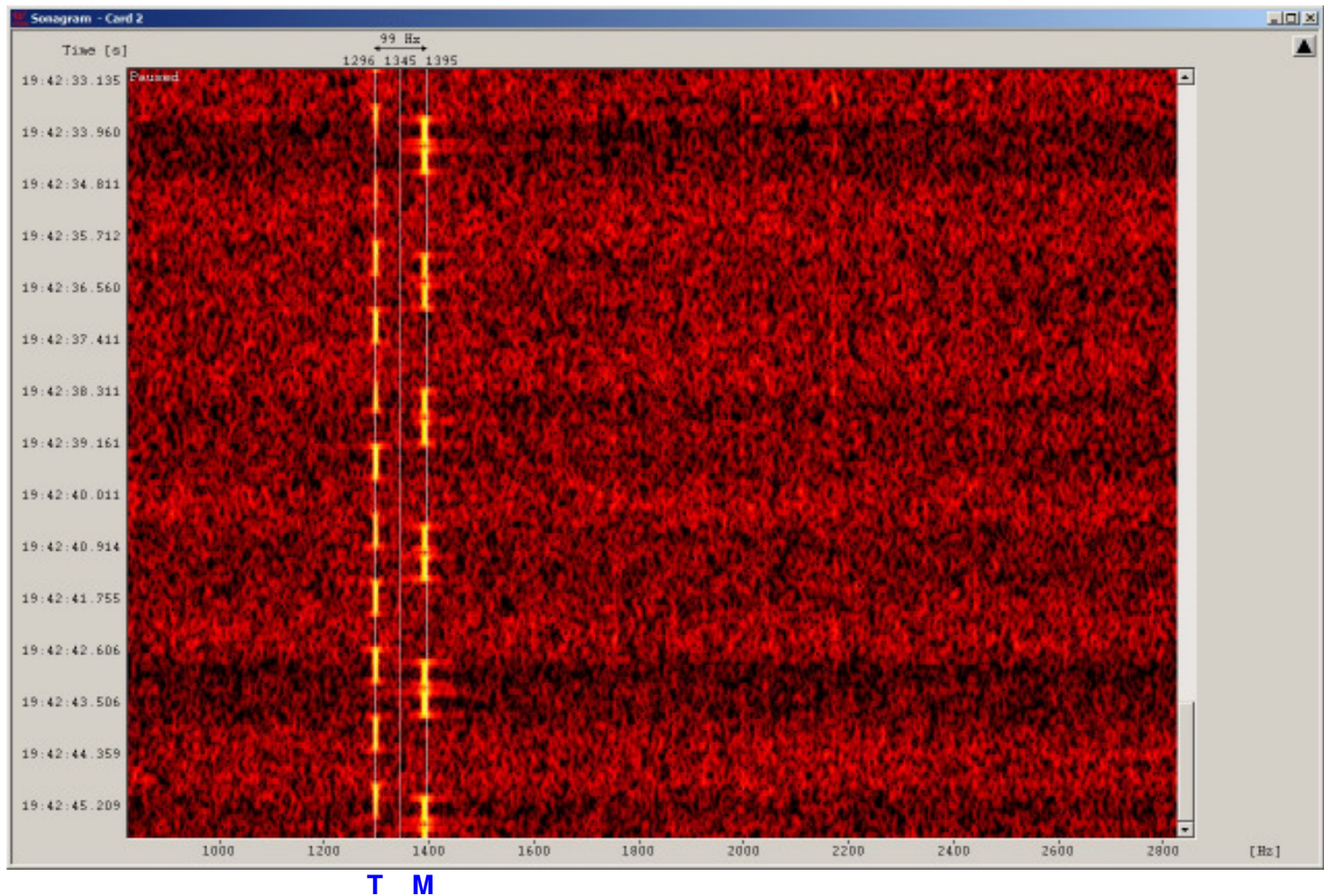
1. Chinese wideband OTH radar on 40 m-band

Date: Feb. 15th Time: 1538 utc – parameters: FMOP – 10 sweeps/sec – covering 160 kHz
Below 7000 kHz (left): Far East coastal radar “Sunflower”



2. Single letter beacon on 7039.3 kHz – “K” or “T”?

The SLB (= single letter beacon) “K” appeared sometimes as beacon “T”. Location: Petropavlovsk Kamchatskiy Russian Pacific fleet – Screenshot with Wavcom W-Code

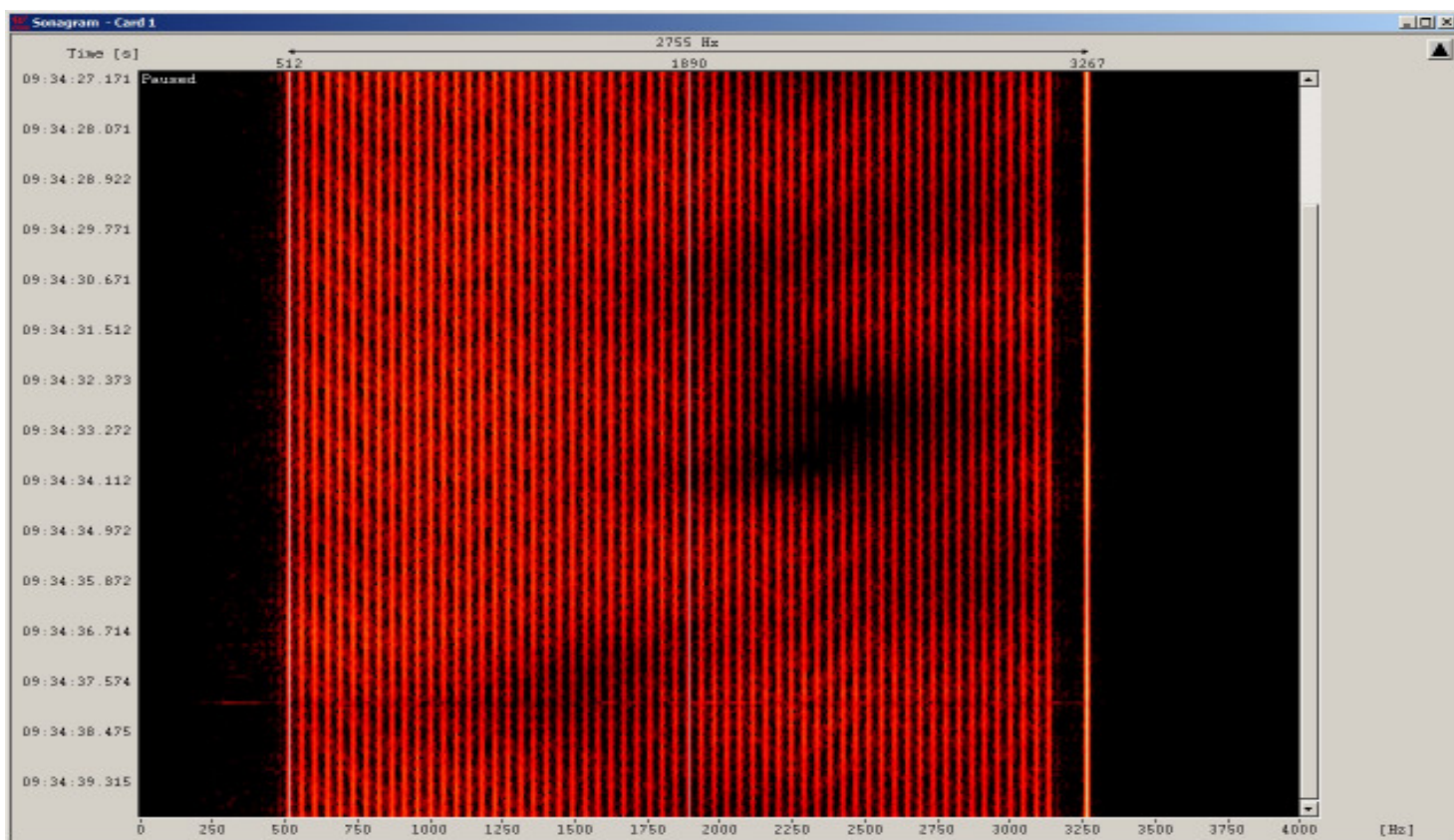


3. Russian F1B (teleprinter) on 7193 kHz

We found a Russian F1B on 7193 kHz for several days. Parameters: 50 Bd and 200 Hz shift - encrypted.
Ident: RDL = RUS Navy - Location: Kaliningrad
The German BNetzA Konstanz and the Swiss BAKOM filed official complaints.

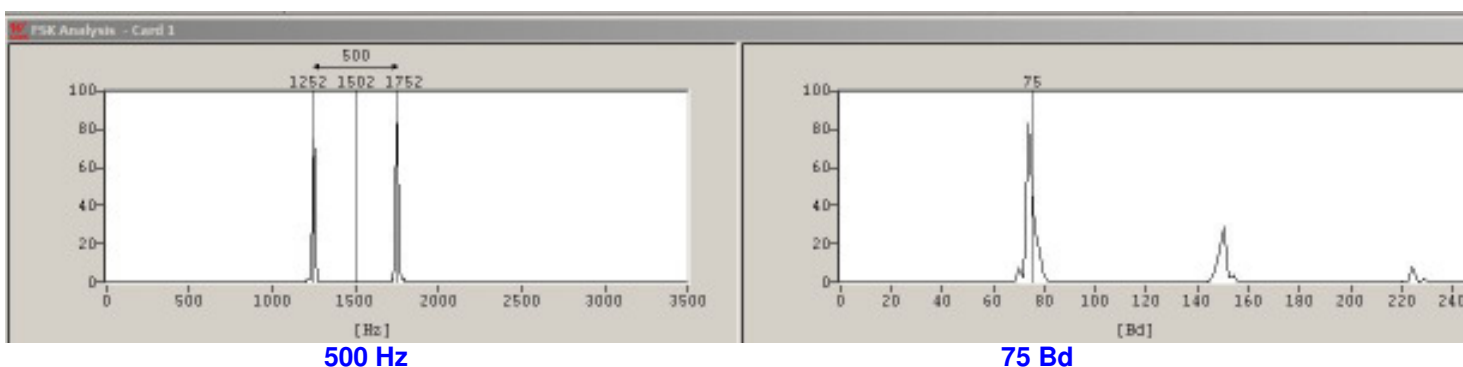
4. Russian OFDM 60 on 20 m-band

QRG: 14235.0 kHz RF – Parameters: OFDM 60 – PSK4B – 29.6 Bd – covering 2760 Hz with the pilot tone
dark layers: selective fading – Date: Feb. 13th – Time: 0942 utc – Location: Moscow
Three Russian OFDM 60 were active on 20 m at the same time on Feb. 13th. Please observe my table!
Sonagram with Wavecom W-Code - **OFDM** = othogonal frequency division multiplex



5. Russian F1B on 20 m-band

We observed a Russian F1B on 14308.0 kHz. Parameters: 50 Bd and 500 Hz shift – Location: Moscow
Date: Feb. 2nd Time: 1015 utc
Measuring the parameters with W-Code: **left shift – right baudrate**



6. CIS pirates on our narrow 5 MHz band

CIS pirates in Russian voice abused 5352 kHz on A3E (AM) with very unstable carriers on Feb. 18th at 2100 utc.

7. Miscellaneous or bad news:

3560.0 kHz – USB – Spanish fishermen daily at 1600 utc or later (also: 3500, 3535, 3550, 3590 kHz)
5350.0 kHz – USB – Spanish fishery – splattering up to 5353.0 kHz
7120.0 kHz – Radio Hargeis 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

8. 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

RSK – Kenya – 5Z4BV (Kamweti)

Soc	kHz	UTC	dd	mm	ITU	Identity	MODE	Shift	Details
RSK	6.999,00	a.m.	occasional	2	Tanzania/ E.Africa	?	J3E-u		Mil Kiwahili message net
RSK	7.008,00	0650	19	2	E. Africa / S. Sudan?	?	J3E-u		Mil/Eng/vernacular msg net
RSK	7.075,00	1025	22	2	Kenya	?	J3E-l		Kiswahili net
RSK	7.089,00	vt	nr dly	2	Central Africa?	?	J3E-u		Mil French Vernacular Msg net
RSK	7.100,00	p.m.	nr dly	2	Kenya	?	PSK J3E-u	2750	STANAG 4285
RSK	7.120,00	vt	dly	2	Somaliland	Radio Hargeisa	A3E		Broadcast
RSK	7.140,00	vt	dly	2	Eritrea	Voice of the Broad Masses of Eritrea 1	A3E		Broadcast
RSK	7.140,00	a.m.- p.m.	near dly	2	Ethiopia?	?	A3E		Heavy jammer
RSK	7.180,00	vt	dly	2	Radio Eritrea	Voice of the Broad Masses of Eritrea 2	A3E		Broadcast, occasional QSY 7181.55kHz
RSK	7.180,00	p.m.	near dly	2	Ethiopia?	?	A3E		Heavy jammer

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

DG0JBJ (Mario) observed 1 OTH radar on 40 m, 0 OTH radars on 20 m, 25 OTH radars on 17m, 5 OTH radars on 15 m and 1 OTH radar on 10 m in February 2018.

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	ady	dly	02	RUS		USB LSB			14 tones – hyperbolic radio navigation system – BRAS-3/RS-10 – Kaliningrad – no carrier - daily, all day
DK2OM	1852,0	1947	27	02	I	IPP	USB			Palermo Radio, weather reports
DK2OM	1855,0	1947	27	02	I	IQP	USB			San Benedetto Radio, weather reports - daily
DK2OM	1876,0	2056	11	02	I	IQN	USB			Lampedusa Radio, weather reports - daily

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	1888,0	2055	11	02	I	IPD	USB			Civitavecchia Radio, weather reports - daily
DK2OM	1896,5	ady	dly	02	D		PSK8	2400	2400	Stanag4285 – 600 bps long – German Navy – daily, all day
DK2OM	1925,0	2055	11	02	I	IPL	USB			Livorno Radio, weather reports - daily
DK2OM	3503,5	vt	dly	02	G	no ITU	FSK8	125	1750	ALE – “XSS” “XPU” “XJR” – British MIL Tascomm – vt, daily - legal!
DK2OM	3525,0	---	--	02	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Marseille – legal!
DK2OM	3527,0	2000	02	02	RUS		F1B	50	200	Severomorsk - daily
DK2OM	3531,0	---	--	02	RUS	REA4	N0N			unclean carrier - RUS airforce Moscow, ident: 1940 utc - daily
DK2OM	3532,0	2015	21	02	F		PSK4	75	5800	LINK11-CLEW on both sidebands (5800 Hz wide) – area of Brest – legal!
DK2OM	3535,0	2117	03	02	E		USB			Spanish fishery
DK2OM	3535,0	1345	08	02	G		USB			UK fishery – also 17.02. at 1830 utc
DK2OM	3550,0	0730	dly	02	F		A3E			French amateurs not respecting bandplans – every morning
DK2OM	3550,0	vt	vd	02	ALG	no ITU	FSK8	125	1750	ALE, “IU50” “IU52” “FN50”
DK2OM	3550,7	1829	27	02	ISR		PSK4 PSK8	75 2400	2400 2400	hybrid modem – ISR Navy – PSK4 parallel and PSK8 serial - legal operation!
DK2OM	3553,8	ady	dly	02	TUR		PSK8	2400	2400	Stanag4285 – 600 bps long -TUR MIL - Ankara – daily, all day - legal operation
DK2OM	3560,0	1700	16	02	E		USB			Spanish fishery – daily 1600 utc or later – like telephone
DK2OM	3576,6	ady	dly	02	I	IZ3DVW	A1A			3576.550 - uncoordinated beacon – disturbing JT65
DK2OM	3585,0	ady	dly	02	TWN	HLL	FIC		800	WX-fax Taiwan - 120 rpm, IOC 576 - daily, all day - legal!
DK2OM	3587,0	vt	vd	02	E	no ITU	FSK8	125	1750	ALE, “TVV” “TXX” - Spanish Guardia Civil
DK2OM	3590,0	1925	14	02	E		USB			Spanish fishery
DK2OM	3593,7	---	--	02	RUS	D	A1A			Cluster beacon – Sevastopol RUS Navy – “RCV”
DK2OM	3593,8	---	--	02	RUS	P	A1A			Cluster beacon – Kaliningrad RUS Navy – “RMP”
DK2OM	3593,9	---	--	02	RUS	S	A1A			Cluster beacon – Severomorsk RUS Navy – „RIT“
DK2OM	3594,0	---	--	02	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - “RIW”
DK2OM	3594,2	1845	13	02	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - “RJS”
DK2OM	3595,0	---	--	02	RUS	K	A1A			Cluster beacon - Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - “RCC”
DK2OM	3596,0	vt	dly	02	J		FSK8	125	1750	ALE, “JH1ESB” – just for info!
DK2OM	3617,0	vt	dly	02	HRV	9A5EX	FSK8	125	1750	ALE, “9A5EX” – HAM-ALE - just for info
DK2OM	3622,5	ady	dly	02	J	JMH	FIC		800	Tokyo Meteo – 120 rpm – IOC 576 – daily, all day - legal!!!
DK2OM	3642,0	ady	dly	02	CHN		A1A			loop – DKG6 de 3A7D Chinese military – daily, all day
DK2OM	3649,0	vt	vd	02	ALG	no ITU	FSK8	125	1750	ALE, “BI20” PA20”
DK2OM	3718,0	vt	vd	02	FEa	7CJK	A1A			loop “7CJK”
DK2OM	3756,0	2000	dly	02	RUS		A3E			RUS MIL – channel marker – Tuapse – East Black Sea – night QRG – daily – even audible in Japan
DK2OM	3757,0	ady	dly	02	FEa	RIS9	A1A			“M8JF de RIS9” - loop
DK2OM	3772,0	ady	dly	02	FEa	A4JC	A1A			“A4JC” - loop


DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	3777,0	vt	dly	02	FEa		A1A			"M8JF de RIS9" – loop
DK2OM	3797,0	ady	dly	02	FEa		A1A			"M8JF de RIS9" – loop
DK2OM	5320,0	1928	10	02	CHN		FMOP		50k	Chinese coastal radar "Sunflower" - 43 sps – 5320 – 5370 kHz
DK2OM	5350,0	2130	13	02	E		USB			Spanish fishery – splattering up to 5353.0 kHz – often - various times – like telephone
DK2OM	5350,0	2200	13	02	RUS		FMOP		30k	coastal radar "Sunflower" – 43 sps – 5350 – 5380 kHz – Makhachkala – Black Sea
DK2OM	5352,0	2100	18	02	CIS		A3E			unid persons in Russian voice – unstable carrier – 8 kHz drift - 5352 – 5360 kHz – also 22.02.2018 at 2110 utc
DK2OM	5354,0	2018	22	02	E		USB			Spanish fishery
DK2OM	5360,0	2053	19	02	E		USB			Spanish fishery
DK2OM	5361,8 RF	1710	09	02	DNK	OUA15	PSK8A	2400	2400	Stanag-4285 – 600 bps long – assigned to Danish Navy Aarhus - legal – primary user !
DK2OM	6990,0	1632	22	02	CHN		FMOP		160k	6990 – 7150 kHz - Chinese wideband OTH radar – 10 sps
DK2OM	6998,5	--	--	02	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	6999,0 RF	1618	19	02	RUS		OFDM	29.8	2780	7000.9 kHz center - OFDM 60 – PSK4B - Sevastopol
DK2OM	7000,0	1439	10	02	INS		USB LSB			Indonesian pirates - singing
DK2OM	7000,0	1500	10	02	I		LSB			Italian pirates
DK2OM	7001,5	--	---	02	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	1454	10	02	INS		LSB			Indonesian pirates - singing
DK2OM	7008,0	0936	24	02	RUS		F1B	75	250	NE of Smolensk
DK2OM	7010,0	vt	vd	02	ALB	no ITU	FSK8	125	1750	ALE, "RS0" - Tirana
DK2OM	7010,0	1845	22	02	INS		LSB			Indonesian pirates
DK2OM	7015,0	1455	10	02	INS		LSB			Indonesian pirates
DK2OM	7018,0	---	--	02	RUS	REA4	F1B	100	800	mostly idling – Russian airforce Moscow – ident at full hour + 41 min. on F1A
DK2OM	7020,0	vt	vd	02	ALB		FSK8	125	1750	ALE, "CS004A" "RS004D" "CS004" - daily
DK2OM	7020,0	1823	23	02	INS		USB LSB			Indonesian pirates
DK2OM	7024,0	1524	15	02	CHN		FMOP		160k	7024 – 7184 - Chinese wideband OTH radar – 10 sps
DK2OM	7025,0	1455	10	02	INS		LSB			Indonesian pirates
DK2OM	7027,5	---	--	02	UKR	„V“	A1A			beacon "V" – Kyiv
DK2OM	7030,0	1819	21	02	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7030 – 7062 kHz
DK2OM	7035,0	1848	24	02	INS		LSB			Indonesian pirates – playing music and talking about telephone
DK2OM	7039,0	---	--	02	RUS	C	A1A			Cluster beacon C - Moscow RUS Navy - "RIW"
DK2OM	7039,2	---	--	02	RUS	F	A1A			Cluster beacon F - Vladivostok RUS Navy - "RJS"
DK2OM	7039,3	1814	23	02	RUS	K	A1A			Cluster beacon "K" Petropavlovsk Kamchatskiy - RUS Navy - Pacific fleet - "RCC" - daily – sometimes only "letter T"
DK2OM	7039,4	1922	13	02	RUS	M	A1A			Cluster beacon M – Magadan RUS Navy – „RTS“

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	7040,0	ady	dly	02	I		A1A			IZ3DVW – uncoordinated and unwanted beacon
DK2OM	7040,0	1849	24	02	INS		USB LSB			Indonesian pirates
DK2OM	7040,5	vt	dly	02	HRV		FSK8	125	1750	ALE, “9A5EX” “9A0ALE” – just for info
DK2OM	7042,0	1750	07	02	RUS		PSK2A	120	2600	AT3004D – submode idle - Moscow
DK2OM	7049,5	vt	dly	02	HRV G F	9A0ALE M1DFO F6BAZ	FSK8	125	1750	Amateur ALE, just for info! daily – various times
DK2OM	7050,0	vt	dly	02	KGZ		FSK8	125	1750	ALE, “X” “810” “820615” “810698” – Kyrgyzstan MIL
DK2OM	7054,0	2153	27	02	CHN		FMOP		10k	Chinese OTH radar (foghorn) – 66.66 sps – 3.8 sec bursts
DK2OM	7070,0	vt	vd	02	GEO	no ITU	FSK8	125	1750	ALE, “MV” “244” “686” “334” “204” “571” – daily active
DK2OM	7088,8	vt	vd	02	S	SL0FRO	A1A			7088.830 kHz - cw-trainee, Sweden - SL0FRO - just for info!
DK2OM	7089,8	---	--	02	TUR CYP		PSK8	2400	2400	Link11 - SLEW – aircraft – west of Cyprus
DK2OM	7091,5	---	--	02	KAZ	„V“	A1A			7091.543 kHz - loop with spurious – ident “V” – Almaty - Kazakhstan
DK2OM	7099,5	vt	dly	02	HRV	9A0ZG	FSK8	125	1750	ALE, “9A0ZG” “9A5EX1P” “9A0OS” – daily - just for info!
DK2OM	7102,0	vt	dly	02	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	7102,0	vt	vd	02	HRV SUI D	9A0MIL	FSK8	125	1750	ALE, “9A3MIL” “9A2KS” “HB9MHB” “9A0ZG” “9A4OS” “DK0ESD” – just for info!
DK2OM	7102,0	vt	dly	02	J		FSK8	125	1750	ALE, “JH1ESB” – just for info!
DK2OM	7110,0	vt	dly	02	HRV	9A0ALE	FSK8	125	1750	ALE, “9A0ALE” – just for info
DK2OM	7112,0 LSB	2225	26	02	CHN		PSK4A	60	2350	burst system “PRC-30” – 30 tones – 450 Hz pilot tone
DK2OM	7117,0	---	--	02	RUS	REA4	F1B	100	1000	mostly idling – Russian airforce Moscow – ident on CW at 1640 utc on the mark-QRG
DK2OM	7118,0	0920	16	02	RUS		PSK2A	120	2600	AT3004D
DK2OM	7120,0	1500	25	02	SOM		A3E		9k	Radio Hargeisa – Somalia – daily – even audible in Australia and Japan
DK2OM	7120,0	2124	01	02			FSK8	125	1750	Thales 3000 -
DK2OM	7120,0	2127	01	02	CHN		FSK8	125	1750	ALE, “A98” “E55” – CHN navy
DK2OM	7123,0	1920	14	02	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7125,0	1030	28	02	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7125 – 7157 kHz
DK2OM	7137,0	vt	dly	02	TWN		FSK8 LSB	125	1750	ALE, “EDKLT” “EVSNG” “ECCLT” “EFNGX” “EVNNM” “EVWRK” “EGFXA” “ECQUY” “EFYMO” “EWPEN” “ECXKF” “EWRAJ” Taiwanese navy
DK2OM	7137,0	2100	09	02	RUS		PSK2A	120	2600	AT3004D
DK2OM	7140,0	1700	25	02	ERI ETH		A3E		9k	7140.024 kHz - Radio Eritrea disturbed by Radio Ethiopia by white noise emissions - daily
DK2OM	7144,0	vt	24	02	FEa		FMOP		32k	Codar like ocean surface radar 2.6 sps – 7144 – 7176 kHz
DK2OM	7180,0	0805	28	02	RUS		PSK2A	120	2600	AT3004D - Severomorsk
DK2OM	7181,6	1700	25	02	ERI ETH		A3E		9k	7181,555 kHz - Radio Eritrea disturbed by Radio Ethiopia by white noise emissions - daily
DK2OM	7183,0	vt	dly	02	SUI		FSK8	125	1750	ALE, “HB9MHB” – just for info!
DK2OM	7185,5	vt	dly	02	J		FSK8	125	1750	ALE, “BV4AS” “JH1ESB” – just

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
					TWN					for info - daily
DK2OM	7191,0	0807	28	02	RUS		PSK2A	120	2600	AT3004D - Moscow
DK2OM	7193,0	1015	08	02	RUS	RDL	F1B	50	200	Kaliningrad – disturbed by a German amateur on the mark QRG with dashes
DK2OM	7193,0	1943	10	02			QRM			very unstable transmission with 50 Hz spectral lines – 7193 -7198 kHz
DK2OM	7200,0	---	--	02	MMR		A3E		9k	Myanmar Radio
DK2OM	10100,8	ady	dly	02	D		F1B	50	450	Baudot - German Weatherservice – legal!
DK2OM	10110,0	vt	dly	02	SNG	no ITU	FSK8	125	1750	ALE, “CN6” “68” – Singapore Navy - Changi Naval Base
DK2OM	10113,0	vt	vd	02	TUN	no ITU	FSK8	125	1750	ALE, “TUD” “STAT5” “STAT154”
DK2OM	10114,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “BSF” “ZEN” “CM2OR2”
DK2OM	10114,8	0640	dly	02	RUS		F1B	100	1000	CIS14 – Moscow
DK2OM	10115,0	vt	dly	02	MRC	no ITU	FSK8	125	1750	ALE, “100” “114” “203” “XXZ” – Western Sahara
DK2OM	10116,5	---	--	02	AFS		F7D	54.3	2120	MHF50 – 33 tones - South African navy
DK2OM	10120,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM6” “01012016”
DK2OM	10123,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “COF” “BSF” “CM2” “ESA” – Algerian Airforce
DK2OM	10124,0	vt	dly	02	ALG		FSK8	125	1750	ALE, “OEB” - ALG airforce
DK2OM	10129,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM1” “CTF” “772”
DK2OM	10136,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “CM3” “BLD” “CNC” “TF2”
DK2OM	10144,0	ady	dly	02	D	DK0WCY	A1A			10144.000 kHz - DK0WCY – German aurora beacon – just for info!
DK2OM	10145,0	2020	21	02	MRC		USB			Moroccan fishery
DK2OM	10145,5	vt	dly	02		JH1ESB	FSK8	125	1750	ALE, “JH1ESB” - just for info - daily
DK2OM	10145,5	vt	dly	02	TWN AUS	BV4AS	FSK8	125	1750	ALE, “BV4AS” “VK4SAA” – just for info!
DK2OM	14030,0 RF	---	--	02	EGY		UI modem		2400	Egypt navy – ui parallel modem
DK2OM	14100,0	vt	dly	02	ALG	no ITU	FSK8	125	1750	ALE, “6206” “6204” “6212” “6202” “6203” “6207” “6217” “MTL” “IJP” – Mauritanian border – daily, all day
DK2OM	14109,0	vt	dly	02	TWN	HAM	FSK8	125	1750	ALE, “BV4AS” – daily - just for info!
DK2OM	14109,0	vt	dly	02	INS	HAM	FSK8	120	1750	ALE, “YD00XH” – just for info!
DK2OM	14109,0	vt	dly	02	S HRV D		FSK8	125	1750	ALE, “SM3FXL” “9A4OS” “9A3BRV” “DK0ESD” - just for info!
DK2OM	14109,0	vt	vd	02	J		FSK8	125	1750	ALE, “JH1ESB” – just for info
DK2OM	14109,0	0934	23	02	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14160,0	vt	dly	02	MRC		FSK8	125	1750	ALE, “9204” “9228” “9236”
DK2OM	14192,0	vt	vd	02	RUS		F1B	50 75 50 100 200		RUS navy Kaliningrad - daily
DK2OM	14221,0	2020	dly	02	KGZ		F1B	50	200	CIS-50-50 - Bishkek – daily – – mostly idling
DK2OM	14236,9	0942	13	02	RUS		OFDM	29.6	2750	OFDM 60 – PSK4B – Moscow
DK2OM	14260,0	vt	dly	02	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14260,0	---	--	02	UKR		A3E			female voice with encrypted msgs – figures – “SZRU” = Foreign Intelligence Service of Ukraine in Rivne

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
DK2OM	14260,9	0944	13	02	RUS		OFDM	29.6	2750	OFDM 60 – PSK4B – Moscow
DK2OM	14272,0	---	--	02	RUS	RCV	A1A			RUS Navy Sevastopol
DK2OM	14284,9	0954	13	02	RUS		OFDM	29.6	2750	OFDM 60 – PSK4B – Moscow
DK2OM	14292,0	0933	23	02	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 2.5 sec bursts
DK2OM	14295,0	vt	dly	02	SRB	YU1BI	FSK8	125	1750	ALE, “YU1BI” – just for info!
DK2OM	14295,0	0910	24	02	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14295,2	ady	dly	02	TJK		A3E		9k	3rd from Radio Tajik on 4765 kHz – daily, all day
DK2OM	14303,0	0900	16	02	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts
DK2OM	14306,0	0940	18	02	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14308,0	1015	02	02	RUS		F1B	75	500	Moscow
DK2OM	14308,0	0950	16	02	RUS		F1B		500	broken F1B – Moscow - vy strong
DK2OM	14311,0	1002	13	02	CHN		FMOP		10k	Chinese OTH radar – 42 sps and 66.66 sps – 6 sec bursts
DK2OM	14317,0	0933	17	02	CHN		FMOP		10k	Chinese OTH radar – 50 sps – 5 sec bursts
DK2OM	14338,4	0819	06	02	RUS		F1B	600	600	DPRK-FSK 600 – North Korean emba Moscow
DK2OM	14340,0	---	--	02	RUS		PSK2A	120	2600	AT3004D – Vladivostok with spurious emissions +/- 35 kHz and +/- 70 kHz - daily
DK2OM	14346,0	vt	dly	02	POR		FSK8	125	1750	ALE, “CT2IXQ” just for info – various times, daily
DK2OM	14346,0	0913	24	02	CHN		FMOP		10k	Chinese OTH radar – 66.66 sps – 3.8 sec bursts
DK2OM	14348,0	vt	dly	02	THA	HSOZEA	A1A			HSOZEA beacon – 14347.950 kHz - every 5 minutes – daily - just for info!
DK2OM	14351,6	---	--	02	E		OFDM PSK4A	30	2700	OFDM 73 + intro tone – HFD+VL - experimental transmissions – Las Palmas – just for info!
DK2OM	18080,0	---	--	02	TWN		A3E/BC			Sound of Hope – Taiwan and Chinese BC jammer – daily at 06 utc and later
DK2OM	18100,0	vt	dly	02	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	02	POR	CT2GOY	FSK8	125	1750	ALE, “CT2GOY” – just for info!
DK2OM	18106,2	vt	dly	02	TWN		FSK8	125	1750	ALE, “BV4AS” – just for info!
DK2OM	18107,0	vd	vt	02	RUS	RDL	F1B	50	200	CIS-50-200 - Moscow – idle and traffic – daily - Russian navy – shared band!
DK2OM	18117,5	vt	vd	02	POR	CT2IXQ	FSK8	125	1750	ALE, “CT2IXQ” – just for info
DK2OM	18140,0	vt	dly	02	SRB	YU1BI	FSK8	125	2600	ALE, “YU1BI” – just for info!
DK2OM	18150,0	---	--	02	RUS		F1B	100	1000	harmonic from 9075 (100 Bd, 500 Hz) - Kaliningrad
DK2OM	21000,0	---	--	02	B		USB			Brazilian pirates – Rio de Janeiro with North Brazil – very often
DK2OM	21000,0	---	--	02	SDN		USB			MFA Sudan – Khartoum with emba Yemen – voice traffic
DK2OM	21002,2	---	--	02	SDN	!0000 !9999 !8888	F1B	100	170	21002.15 kHz - Pactor 1 encrypted – MFA Sudan – Khartoum with emba Yemen
DK2OM	21096,0	vt	dly	02	INS	YD00XH	FSK8	125	1750	ALE, “YD00XH3” – daily, various times - just for info!
DK2OM	21096,0	vt	vd	02	G		FSK8	125	1750	ALE, “M1DFO” – just for info!
DK2OM	21145,0	vt	dly	02	MRC	no ITU	FSK8	125	1750	ALE, “A” “B301” “C3”, “IR4” “H4” “IR6” “T4” “E4” “A2”

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										“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	02	I	IZ3DVW	A1A			IZ3DVW beacon – 21145,790 kHz – daily, all day - not coordinated with IARU
DK2OM	21190,0	---	--	02	RUS		F1B	100	1000	harmonic from 10595 kHz - Moscow
DK2OM	21400,0	---	--	02	RUS		F1B	50	2000	harmonic from 5350 kHz – area of Moscow
DK2OM	21438,0	---	--	02	RUS	RCV	A1A			RIP90 de RCV - RUS Navy Sevastopol - daily
DK2OM	21446,0	ady	dly	02	THA	HS0ZEA	A1A			HS0ZEA beacon – every 5 minutes - just for info!
DK2OM	25000,0	---	--	02	FIN		A3E			time signal Helsinki – just for info – carrier on 25000 – dots on 25001 and 24999 – daily, all day – just for info!
DK2OM	28000,0	vt	vd	02	B		A3E			Brazilian CBers – 28000 – 28325 – daily, all day - no change
DK2OM	28000,0	---	--	02	CIS		F3E			28000 – 29700 numerous CIS taxi nets – no change
DK2OM	28025,0	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28051,5	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28075,0	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28085,1	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28146,0	---	--	02	ARG B		FSK8	125	1750	ALE, “LU8EX” “PY2TI” “DL1” – just for info!
DK2OM	28212,0	---	--	02	POR		F1B	51	320	F1B bursts - west of Lisbon – Atlantic Ocean - Enagal GPS buoy
DK2OM	28435,0	----	--	02	E		F1B	81.9	140	Datawell-buoy “Waverider” – 28435.040 kHz – Costa del Sol – Malaga
DK2OM	28459,8	---	--	02	GAB		A3E		1060	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon - daily
DK2OM	28499,8	---	--	02	MEa		F1B	81.9	140	Datawell-buoy “Waverider” – 28499.875 kHz – Persian Gulf
DK2OM	28746,5	---	--	02	GAB		A3E			carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28751,6	---	--	02	GAB		A3E		1080	carrier and dots in USB and LSB, bursts every 60 sec – carrier – Gabon
DK2OM	28960,0	vt	vd	02	IRN		FMOP		50k	Iranian radar bursts – 150 and 313 sps – long lasting - daily
DK2OM	29114,0	---	--	02	RUS		F1B	100	2000	harmonic from 14557.0 kHz - Moscow
DK2OM	29249,9	---	--	02	E		F1B	81.9	140	Datawell-buoy “Waverider” – 29249.880 kHz – Spain Fuerteventura - daily, all day
DK2OM	29375,0	---	--	02	I		F1B	81.9	140	Datawell-buoy “Waverider” – 29374.898 kHz – Gallipoli, South Italy - daily, all day
DK2OM	29387,5	---	--	02	IND		F1B	81.9	140	Datawell-buoy “Waverider” – 29387.460 kHz – Indian NW

DK2OM	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH/SP	DETAILS
										coast, close to Pakistan - daily, all day
DK2OM	29400,0	---	--	02	USA		F1B	81.9	140	Datawell-buoy "Waverider" – 29400.070 kHz - USA north-east coast – NY daily, all day
DK2OM	29450,0	---	--	02	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29449.863 kHz - area of El Aaiun – Morocco - daily, all day
DK2OM	29500,0	---	--	02	G		F1B	81.9	140	Datawell-buoy "Waverider" – 29499.974 kHz- area of Gibraltar – daily, all day
DK2OM	29525,0	---	--	02	MRC		F1B	81.9	140	Datawell-buoy "Waverider" – 29524.990 kHz - Agadir - Morocco – daily, all day
DK2OM	29625,0	---	--	02	USA		F1B	81.9	140	Datawell-buoy "Waverider" – 29625.024 kHz - USA north-east coast – daily, all day
DK2OM	29685,0	---	--	02	I		VFT		2300	Italian MIL – Brescia - daily
DK2OM	29699,5	---	--	02	I		VFT		1600	Italian MIL – Brescia - daily
DK2OM	50100,0	vt	dly	02	D		QRM			1.8 - 50 MHz strong QRM by a neighbouring LED lamp - since 2 years - "many thanks" to German "PTT" Eschborn 

IRTS – Ireland – EI3GYB (Michael)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS
IRTS	1896.5	1510	03	02	D		PSK8	German navy. Daily. Strong at night, getting weak now during the day. Frequency unusable.
IRTS	3550	0724	05	02	F		AM	French HAMS still violating the band plan.
IRTS	3756	2115	11	02	RUS		USB	The Pip. 59plus. Daily for decades.
IRTS	5350	0115	22	02	MRC or MM		USB	2 Moroccan fishermen. On and off for about 2 hours. Bad audio, unstable carriers. A lot of drift.
IRTS	5360	0130	02	02	MRC		USB	2 Moroccan fishermen chatting
IRTS	5360	0215	14	02	RUS		AM/USB	Russian voices. Bad audio. On and off traffic. Sounds like CBers. Heard a few times randomly at night.
IRTS	5360	0100	15	02	MRC or MM		USB	2 Moroccan fishermen. Heard on and off until 0430z.
IRTS	5360	1855	24	02	MM		USB	2 male Japanese male voices chatting for hours. Heard from today until the end of the month on every evening. Sometimes until 2230z. Might be research ships in the North Atlantic.
IRTS	5400	1120 to 1127	12	02	F or MM		USB	2 French fishermen right on the UK/EI CW spot frequency. Huge signals from both ships. Loud motor noise. Heard also on other days of the month at various times. This frequency is one of the most liked by the international fishing community.
IRTS	5398.5	1130	06	02			USB	Somebody keeps deliberately tuning until all HAMS present leave the frequency. No QSO possible. UK/EI SSB spot frequency.
IRTS	5405	2045 to 2235	04	02	POR or MM		USB	2 Portuguese fishermen having a big chat. Huge signals from both sides.
IRTS	5405	2330-2345	25	02	E or MM		USB	2 Spanish fishermen chatting
IRTS	5938.5	1300	20	02			USB	Somebody tries to disrupt all HAM traffic on this EI/UK SSB spot frequency by endless tuning and transmitting sounds samples like MX or random radio talk. Happens quite frequently during the month. Origin somewhere in the UK or EI.

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	DETAILS	
IRTS	7042	1650	07	02	RUS		Digital	RUS military with system AT3004D. Persistent and still on at 0100z on the 8 th of February.	
IRTS	7100	0029	06	02	E or MM		USB	2 Spanish fishermen. Monster signals. Motor noise in the background of both ships.	
IRTS	7100	1330	08	02	MM		USB	2 male Japanese voices chatting happily.	
IRTS	7120	1650	11	02	SOM		AM	Radio Hargaysa. Daily during the early morning and late afternoon.	
IRTS	7140	1812	11	02	ERI		AM	Radio Eritrea. Strong. Daily late afternoon and early evening.	
IRTS	7150	0450	18	02	ERI/ETH		AM	Radio Eritrea plus white noise from Ethiopia.	
IRTS	7160	0225	13	02			Digital	Big digital signal from 7158 to 7164 KHz. Probably RUS military. Still on at 0308z	
IRTS	7180	1654	10	02	ERI/ETH		AM	Radio Eritrea plus white noise from Ethiopia. Very strong every day in the late afternoon.	
IRTS	10123.5	1235	03	02			FMCW	Radar, 10123.5 to 10144.5 KHz.	
IRTS	10123.5	1655	11	02	MRC		USB	2 Moroccan fishermen	
IRTS	10133	1607	24	02			FMCW	Strong radar from 10133 to 10160 KHz.	
IRTS	10131.4	1700	10	02			USB	2 Moroccan fishermen	
IRTS	10141	1030	02	02			FMCW	Radar, 10141 to 10166 KHz . Very strong.	
IRTS	14192	1015	13	02	RUS		F1B	RUS navy Kaliningrad. Daily for all daylight hours.	
IRTS	14200	1000	02	02			Digital	Strong digital signal. Still on at 1205z. Starts fading out and is gone completely by 1300z.	
IRTS	14295	1311	22	02	TJK		AM	3 rd harmonic of Radio Tajikistan	

KARS – Kuwait – 9K2RR (Faisal)

MRASZ – Hungary - HA7PL (Laci)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SH	DETAILS
MRASZ	1854,0	1545	23	2			A1A		"NKJDF NBTJF VOFQK"
MRASZ	3508,0	1915	18	2			USB		russian man
MRASZ	3559,0	1656	8	2			PSK2		AT3004D
MRASZ	3563,0	1527	23	2			PSK2		AT3004D
MRASZ	3568,0	1524	23	2			F1B	250	
MRASZ	3578,0	1536	23	2			F1B	200	
MRASZ	3593,0	1835	18	2			LSB		russian "ogyin dva tri"
MRASZ	3610,0	1833	18	2			A3E		russian, "prijom" + chaos
MRASZ	3616,5	1528	23	2			PSK2		AT3004D
MRASZ	3624,0	1658	8	2			PSK2		AT3004D
MRASZ	3642,0	1729	3	2	CHN		A1A		"V DKG6 de 3A7D"
MRASZ	3642,0	1847	18	2	CHN		A1A		"V DKG6 de 3A7D"
MRASZ	3658,0	1725	3	2	UZB	V	A1A		"V" beacon
MRASZ	3658,0	1849	18	2	UZB	V	A1A		"V" beacon
MRASZ	3676,0	1830	18	2			F1B	250	
MRASZ	3756,0	1700	8	2			N0N		
MRASZ	3757,0	1842	18	2			F1B	200	
MRASZ	3774,0	1721	8	2			F1B	250	
MRASZ	3799,0	1531	23	2			PSK2		AT3004D
MRASZ	3801,0	1702	8	2			PSK2		AT3004D
MRASZ	7055,0	1753	3	2			LSB		music + song
MRASZ	7120,0	1509	dly	2	SOM		A3E		R. Hargaysa,
MRASZ	7127,0	0910	11	2			OTHR		
MRASZ	7141,0	1525	dly	2	ERI		A3E		R. Eritrea
MRASZ	7181,5	1524	dly	2	ERI		A3E		R. Eritrea
MRASZ	7184,0	1022	8	2			USB		probable Dutchmann
MRASZ	7193,0	1021	8	2			F1B	200	+ dashes as disturbance
MRASZ	7200,0	1755	3	2			A3E		splattered 5 kHz down
MRASZ	10125,0	1011	2	2			PSK2		AT3004D

OEVSV – Austria – OE3GSA (Gerd)**PZK – Poland – SP9BRP (Jan)****REF – France – F5MIU (Francis)**

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	Sh /Bw	DETAILS
R.E.F.									February 2018
	3500	0904	12				USB	3kHz	Russian pro ?
	18063	0855	5				fmcw	20kHz	OTH radar S7 pulsed 40ms
	18080	0839	2	2			fmcw	40kHz	OTH radar S9 pulsed 80ms
	21150	0900	15				fmcw	20kHz	OTH radar S5 pulsed 20ms On NCDXF frequency

REP – Portugal – CT4AN (Jose Francisco)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	BD	SH	DETAILS
REP	3520	00.11	07	02	RUS		F1B	75.75	250	CIS 36-50
REP	3530	18.00	12	02	E		J3E U			Spanish fishery
REP	3540	22.47	14	02			J3E U			Unid language ops
REP	3549	18.58	20	02			J3E L			Speech inversion comms, then arabic in the clear
REP	3550	21.32	20	02	ISR		PSK4/8	2400		Israel PSK4/8 Hybrid modem, every 5 minutes
REP	3588	10.30	06	02	E		J3E U			Spanish fishery
REP	3640	00.12	06	02	RUS		FSK	75	250	Russian mil T-600 modem CIS50
REP	3664	22.53	18	02	E		J3E U			Spanish fishery
REP	3673	21.50	16	02	HOL	PBK	J3E U			Dutch Coast Guard wx bulletin, legal, FYI
REP	5352	10.02	05	02	E		FSK8			ALE Spanish Guardia Civil TMY clg TMYR2
REP	5354	10.48	07	02			J3E U			Unid french/arabic male ops
REP	7000	19.54	10	02	B		J3E U			Brazilian fishery, daily
REP	7000	23.16	13	02			J3E U			Unid language chat, yl and om
REP	7005	15.41	09	02			J3E-L			Intruders
REP	7041	19.41	23	02			BPSK	2400		Panther/Racal-H ss modem handshake
REP	7045	18.00	16	02			FMCW	50	15k	OTH radar
REP	7045	19.20	15	02			FSK8			Unid ALE net 2001 clg 2011
REP	7045	18.42	23	02			FSK8			Unid ALE net "1016", "2014" sounding
REP	7045	19.30	23	02			FSK8			Unid 92xxx net, "920006" sounding
REP	7055	19.22	23	02			BPSK	2400		Panther/Racal-H ss modem handshake
REP	7058	19.11	23	02			BPSK	2400		Panther/Racal-H ss modem handshake
REP	7070	19.34	15	02			FSK8			Unid ALE net 10003 sounding
REP	7070	19.37	23	02			FSK8	2400		Unid ALE net 2201 sounding
REP	7104	20.11	15	02			FMOP	10sps		Very wide OTH radar 10sps/160khz wide
REP	7118	19.16	15	02	RUS		PSK2	120		AT3004D 12x120 bpx pilot tone 3k
REP	7118	17.29	01	02	RUS		PSK2	120		AT3004D 12x120 bpx pilot tone 3k
REP	7120	17.40	10	02	SOM		8k00 A3EGN			Radio Hargaysa broadcast
REP	7120	18.34	08	02	SOM		A3E8KBC			Radio Hargaysa, Somaliland daily
REP	7135	20.11	10	02	RUS		PSK2	120		AT3004D 12x120 bpx pilot tone 3k
REP	7140	18.32	08	02	ETH		A3E8KBC			Radio of the Broad Masses, Eritreia daily
REP	7175	20.99	04	02	RUS		F1B	75	240	CIS50-50, Russia encrypted comms
REP	7185	18.31	08	02	ETH		A3E8KBC			Radio of the Broad Masses, Eritreia daily
REP	7197	20.02	23	02			FSK8	2400		Turkish Red Crescent ALE net 306013 sounding
REP	7205	21.09	26	02	F		A3E8KBC			Radio France Int splattering 7195 kHz
REP	10110	11.34	02	02	MRC		J3E-U			Fishery
REP	10125	19.18	14	02			J3E/PSK			STANAG 4285
REP	10135	18.00	14	02			FMCW			OTH radar
REP	14180	14.20	11	02	RUS		F1B	50	250	CIS36-50, Russia
REP	14255	15.00	11	02			F1B	75	250	Encrypted rtty
REP	14265	14.50	11	02	RUS		F1B	50	250	CIS 50
REP	18075	17.20	11	02			FMCW	50	20k	OTH radar
REP	28120	11.22	27	02	E		F1B	50	200	Enagal buoy
REP	28165	15.00	27	02	RUS		F3E			Russian taxi dispatcher
REP	28310	11.14	17	02			FMCW			OTH radar 50sps/20kHz
REP	29135	11.28	17	02	RUS		F3E			Taxi dispatcher
REP	29175	11.55	17	02	RUS		F3E			Taxi dispatch
REP	29180	11.01	17	02	RUS		F3E			Taxi dispatcher
REP	29250	12.06	04	02			F1B	82	120	Datawell buoy

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

Society	kHZ	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7000.0	0915-1915	20	2		UiCarr	N0N			
SRAL	7001.0	0940-1310	21	2	RUS	UiMUX	PSK2	120	2600	at 1315 usb on 6999, Russian
SRAL	7008,0	0630-1530	*	2	RUS	UiPTR	F1B		250	days: 9. 17. 22. 24.
SRAL	7010.0	1045	11	2		UiMUX	PSK2	120	2600	
SRAL	7011.8	0945-1310	21	2	RUS	UiCarr	N0N			at 1150 usb on 7011, Russian
SRAL	7012.0	0900-0930	1	2		UiPRT	F1B		250	
SRAL	7015.0	0955-1011/	2	2		UiCW	A1A			5F
SRAL	7015.0	0700-1540	24 - 28	2	RUS	RLO	F1B/A		200	
SRAL	7016.0	1100	10	2		UiMUX	PSK2	120	2600	
SRAL	7018,63	1230-1815	20 - 22	2		UiCarr	N0N			
SRAL	7022.0	0920-1440	8 18	2		UiMUX	PSK2	120	2600	
SRAL	7032.0	'0845	27	2		UiMUX	PSK2	120	2600	
SRAL	7033.0	0555-1355/	19 20	2		UiMUX	PSK2	120	2600	
SRAL	7034.0	0700-1240	18	2		UiMUX	PSK2	120	2600	
SRAL	7042.0	1400-1740/	7	2		UiMUX	PSK2	120	2600	
SRAL	7049.0	'0950	5	2		UiPTR	F1B		200	
SRAL	7051.0	0800-1510/	28	2		UiPTR	F1B		500	
SRAL	7089.0	0800-1510	*	2		UiMUX	PSK2	120	2600	days: 2. 15. 28.
SRAL	7098.0	1340-1415	3	2		UiPTR	F1B		250	
SRAL	7100.0	0700-0910	15	2		UiCarr	N0N			
SRAL	7102.0	1045-1135	19	2		UiMUX	PSK2	120	2600	
SRAL	7107.9	0630-1200/	6	2		UiCarr	N0N			
SRAL	7118.0	0845-0935/	1 7	2		UiMUX	PSK2	120	2600	
SRAL	7120,0	/0330-0545	dly	2	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/1300-1400/	dly	2	SOM	R.Hargeis a	A3E			
SRAL	7120,0	/1500-2000/	dly	2	SOM	R.Hargeis a	A3E			
SRAL	7126.55	0900-1045	11	2		UiCarr	N0N			100 Hz brumm
SRAL	7127.0	0945-1000	5	2		UiMUX	PSK2	120	2600	
SRAL	7127.0	0910-1055	21	2		UiPTR	F1B		250	
SRAL	7130.0	1325	6	2		UiPTR	F1B		1000	
SRAL	7140,0	0330-0700	dly	2	ERI	VoBME	A3E			Jammed by ETH
SRAL	7140,0	1300-1835/	dly	2	ERI	VoBME	A3E			Jammed by ETH

Society	kHZ	UTC	DD	MM	ITU	IDENT	MODE	BAUD	SHIFT	REMARKS
SRAL	7142.0	0800-0840/	7	2		UiPTR	F1B		250	
SRAL	7145.0	0945-1445/	22	2		UiMUX	PSK2	120	2600	
SRAL	7146.5	0900-1230	16	2	RUS	PVO '8'	A1A			time stamp
SRAL	7159.0	1000-1030	9	2		UiPTR	F1B		200	
SRAL	7160.0	0640-0910	20 21	2	RUS	RMW32	A1A			MR, 5BL
SRAL	7162.0	0700-1800	*	2		PVO '9'	A1A			time stamp, days: 1. - 21. 26.
SRAL	7164.0	0745-1020/	9 24	2		UiMUX	PSK2	120	2600	
SRAL	7169.0	0815-1000	*	2		UiPTR	F1B		250	days: 8. 10. 15. 17. 22.
SRAL	7171.0	/0650-0845	*	2		UiMUX	PSK2	120	2600	days: 5. 8. 17. 21. 24. 27.
SRAL	7176.0	0900-0915	11	2		UiPTR	F1B		500	
SRAL	7181,55	0230-0720	dly	2	ERI	VoBME	A3E			Jammed by ETH
SRAL	7181,55	/1300-1835/	dly	2	ERI	VoBME	A3E			Jammed by ETH
SRAL	7181.63	0645-1015/	3	2		UiCarr/ PTR	N0N/ F1B		250	
SRAL	7192.9	0750-1400/	4	2		UiCarr/ PTR	N0N/ F1B		200	
SRAL	7193.0	0800-1400/	*	2	RUS	UiPTR	F1A/B N0N		200	days: 6. - 13.
SRAL	7198,0	0850-1320/	9 16	2		UiMUX	PSK2	120	2600	
SRAL	7199.0	1215-1245	6	2		UiPTR	F1B		250	
SRAL	10 MHz			2	RUS	29B6	FMCW			25/50Hz ,15 kHz (WebSDR 19d)
SRAL	14138.0	'0830	2	2		Uidotter	A1B			20 Hz
SRAL	14192.0	1130-1200	1	2	RUS	UiPTR	F1B		200	Kaliningrad
SRAL	14221.0	0500-0600/	*	2	KAZ	UiPTR	F1B		200	days: 14. - 18. 22. 23.
SRAL	14295,0	0500-1230	dly	2	TJK	R Tojikiston	A3E			3f 4765,00 kHz, Yangiyul TX. Chirpy stand by TX
SRAL	18 MHz	/1120-1230/	25	2	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 13d)
SRAL	21 MHz			2	CYP / TUR	UiOTHR	FMCW			25/50Hz / 20 kHz, (WebSDR 6d)
SRAL	21438,0			2	RUS	RCV	A1A			
SRAL	24 MHz			2		UiOTHR	FMCW			(WebSDR 0d)
SRAL	28 MHz			2	IRN	UiOTHR	FMCW			307 & 870 Hz / 60 kHz – 300 kHz
SRAL	28960,0			2	IRN	UiOTHR	FMCW			150 & 313 Hz / 60 kHz
SRAL	28 MHz			2		UiOTHR	FMCW			25/50Hz / 20 kHz (WebSDR 0d)
SRAL	28 MHz			2	RUS	Taxi disp.	F3E			0 reports

USKA – Switzerland – HB9CET (Peter)

SOC	kHz	UTC	DD	M M	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	3524.0	1553	01	02			J7D	12x120	2k7	BPSK; CIS12 often
USKA	3527.0	2251	06	02			F1B	50	200	almost daily
USKA	3532.0 VFO USB	2242	26	02			DQPSK	14x75	~2k4	LINK 11 CLEW; SSB Mode
USKA	3534.0 VFO USB	2226	08	02			PSK8	2400	~2k7	MIL 188-110A frame format 1200 bps short
USKA	3542.0	1421	17	02			J7D	12x120	2k7	BPSK; CIS12
USKA	3548.0	1501	26	02			F1B	50	200	often
USKA	3549.0 VFO USB	2253	13	02			PSK8	2400	~2k7	MIL188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3552.0 VFO USB	2257	13	02			PSK8	2400	2k4	Stanag 4285, frame format 600bps/long daily
USKA	3578.0	1025	05	02			F1B	75	250	often
USKA	3580.0	2212	08	02			J7D	12x120	2k7	BPSK; CIS12
USKA	3582.5	1455	26	02			F1B	50	200	often
USKA	3591.0	1458	26	02			DQPSK	14x75	5k9	LINK 11 CLEW; DSB Mode
USKA	3608.0	2232	25	02			F1B	50	200	
USKA	3631.0 VFO USB	2301	13	02			PSK8	2400	~2k7	MIL188-110A mod (Hybrid) preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3640.0	2247	06	02			F1B	75	250	
USKA	3646.2	2256	06	02			PSK8	2400	~2k7	MIL 188-110A
USKA	3649.0	1554	01	02			F1B	50	200	
USKA	3653.0	1615	09	02			F1B	50	250	often
USKA	3658.0	1509	26	02		V	A1A			Letter beacon daily
USKA	3667.0	1557	01	02			F1B	75	250	
USKA	3676.0	1618	09	02			F1B	50	250	
USKA	3694.0	1039	03	02			J7D	12x120	2k7	BPSK; CIS12
USKA	3694.0	0946	04	02			F1B	75	200	
USKA	3694.0 VFO USB	2220	08	02			PSK8	2400	~2k7	MIL188-110A mod (Hybrid), preamble 4 tones, PSK4 75Bd 450Hz spacing
USKA	3700.0	0943	04	02			J7D	12x120	2k7	BPSK; CIS12
USKA	3700.0	2309	13	02			F1B	75	250	
USKA	3725.0	1028	05	02			J7D	12x120	2k7	BPSK; CIS12 often
USKA	3743.0 VFO USB	2302	06	02			PSK8	2400	~2k7	MIL 188-110A mod (Hybrid) preamble 4 tones, PSK4 75Bd 450Hz spacing often
USKA	3746.0	0959	04	02			F1B	75	250	
USKA	3751.0	1510	26	02			F1B	50	200	
USKA	3757.0	1413	17	02			F1B	75	250	
USKA	3759.0	1453	26	02			J7D	12x120	2k7	BPSK; CIS12
USKA	3762.5	2217	08	02			J7D	12x120	2k7	BPSK; CIS12
USKA	3796.0	1739	28	02			A1A	20wpm		letters and figures in groups
USKA	3797.0	1759	01	02			F1B	75	200	
USKA	3799.0	1029	05	02			J7D	12x120	2k7	BPSK; CIS12
USKA	3801.0	2214	08	02			J7D	12x120	2k7	BPSK; CIS12; partially in 80m band
USKA	5361.8 VFO USB	1813	28	02	DNK		PSK8	2400	2k4	STANG 4285; reported as Danish Navy in Aarhus: legal ! often
USKA	7010.0	1036	11	02			J7D	12x120	2k7	BPSK; CIS12
USKA	7010.0	1029	13	02			J3E-L		ca 2k1	unident language
USKA	7015.0	1446	26	02			F1B	50	200	
USKA	7020.0	2205	08	02			J3E-U		2k1	unident language
USKA	7022.0	0826	14	02			J7D	12x120	2k7	QPSK; CIS12
USKA	7030.0	0948	04	02			F1B	75	250	
USKA	7039.4	2201	13	02		M	A1A			Letter beacon; Magadan (weak)
USKA	7042.0	1044	07	02			J7D	12x120	2k7	BPSK; CIS12
USKA	7045.0	2233	13	02		920001	MFSK8	125	1750	ALE, MIL 188-141A often
USKA	7055.0	1443 0917	01 28	02			J3E-L		~2k1	Music often
USKA	7065.0	0939	08	02			J7D	12x120	2k7	BPSK; CIS12

SOC	kHz	UTC	DD	M M	ITU	IDENT	MODE	BD	SH (BW)	DETAILS
USKA	7101.8	0819	15	02			PSK8	2400	2k4	STANAG 4285 (with carrier @ 7100)
USKA	7110.0	2229	25	02			FMCW	66.66	10k	OTHR; Burst system BD 3.8s
USKA	7118.0	0842	16	02			J7D	12x120	2k7	BPSK; CIS12
USKA	7120.0	1555	13	02	SOM		A3E			BC; Radio Hargaysa almost daily
USKA	7137.0	1524	09	02			J7D	12x120	2k7	BPSK; CIS12
USKA	7140.0	1442	01	02	ERI		A3E		~ 10k	African music style often
USKA	7140.0	1621	04	02	ERI		A3E		~8k	BC, massively jammed
USKA	7140.0	1621	04	02					20k	Jammer, white noise
USKA	7181.5	1442	01	02	ERI		A3E		~9k	BC almost daily
USKA	7180.0	1622	04	02					~24k	Jammer, white noise often
USKA	7192.9	1019	04	02			A1A			Jammer; fast dots; stupid and absolutely illegal! often
USKA	7193.0	1019	04	02			F1B	36+50	200	often
USKA	7193.1	1049	07	02			A1A			Jammer; fast dots; stupid and absolutely illegal! often
USKA	7198.0	1056	05	02			J7D	12x120	2k7	BPSK; CIS12 often
USKA	14090.0	1642	28	02			DQPSK	14x75	5k9	LINK 11 CLEW; DSB Mode
USKA	14192.0	0952	04	02			F1B	50	200	often
USKA	14237.0	0959	13	02			OFDM6 0	29.63Bd	2k75	PSK4 modulated Tone spacing 44.45Hz
USKA	14259.0 VFO USB	0938	13	02			OFDM6 0	29.63Bd	2k75	PSK4 modulated Tone spacing 44.45Hz
USKA	14285.0	0954	13	02			OFDM6 0	29.63Bd	2k75	PSK4 modulated Tone spacing 44.45Hz
USKA	14302.0	0912	16	02			FMOP	66.66 sps	10k	OTHR: bursts BD 3.8s BRI 45.8s
USKA	14308.0	0908	16	02			F1B	75	500	
USKA	14311.0	1002	13	02			FMOP	66.66 sps	10k	OTHR: bursts BD 6s
USKA	14333.0	1010	13	02			FMOP	41 sps	10k	OTHR: bursts BD 6s BRI 45s
USKA	18109.0	1037	07	02			J7D	12x120	2k7	BPSK; CIS12

Veron – Netherlands – PG1R (Ruud)

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	3524,0	1903	21	2		UiPTR	F1B		Ptr
VERON	3527,0	2110	9	2		UiPTR	F1B		Revs
VERON	3548,0	1735	2	2		UiPTR	F1B		Ptr
VERON	3576,5	2118	27	2		UiPTR	F1B		Revs
VERON	3586,0	1905	21	2		UiPTR	F1B		Ptr
VERON	3592,0	1942	4	2		UiRadar	FMOP	10k	OTHR; 50sps
VERON	3593,7	2105	9	2	RUS	D	A1A		D-beacon
VERON	3602,0	1643	1	2		UiPTR	F1B		Ptr
VERON	3602,0	2038	4	2		UiPtr	F1B	250	S5
VERON	3608,5	2041	24	2		UiPtr	F1B	200	S4 QSB
VERON	3653,0	1733	2	2		UiPTR	F1B		Revs
VERON	3658,0	2114	9	2	RUS	V	A1A		V-beacon also 21/2 19.09 UTC
VERON	3676,0	1205	9	2		UiPTR	F1B		Ptr also 12/2 16.30 UTC
VERON	3738,0	1629	12	2		UiPTR	F1B		Ptr
VERON	3775,0	2126	27	2	CIS	H8.K	A1A		OZTW de H8.K calls
VERON	3795,0	1920	21	2	CIS	K1Z9	A1A		K1Z9 QTC 151 54 21 2100 151 11111 5F
VERON	3796,0	2128	27	2	CIS	UiCW	A1A		5BL
VERON	7008,0	1105	24	2	RUS	UiPtr	F1B	200	Ptr
VERON	7008,0	1148	24	2	RUS	UiPtr	F1B	250	S9
VERON	7015,0	1805	24	2	RUS	UiPtr	F1B	200	Idling; S7 QSB
VERON	7015,0	1430	25	2	RUS	UiPtr	F1B	200	Idling; S6 QSB
VERON	7015,0	1849	26	2	RUS	UiPtr	F1B		idle
VERON	7018,0	1201	20	2	RUS	UiCAR	NON		carrier Russian Airforce

SOC	kHz	UTC	DD	MM	ITU	IDENT	MODE	SHIFT	DETAILS
VERON	7038,5	1158	24	2			A1A		Persistant dashes; beeacon?
VERON	7040,1	1145	24	2			A1A		Persistant dashes; uncoordinated beacon?
VERON	7040,2	1240	25	2			A1A		Persistant dashes; beacon?
VERON	7050,0	1351	6	2	RUS/UKR		J3E-1		Private war comments; S5
VERON	7050,0	1457	25	2	RUS/UKR		J3E-1		Private war comments; S9
VERON	7055,0	1349	6	2	RUS/UKR		J3E-1		Private war comments; S6
VERON	7055,0	1242	24	2	RUS/UKR		J3E-1		Private war comments; S8
VERON	7075,6	1144	24	2		UiCar			Persistant wobbling carrier; S7
VERON	7092,0	1800	7	2	RUS	PSK2			AT3004D
VERON	7120,0	1454	8	2	SOM	R.Hargeisa	A3E		Very weak; just carrier; S2
VERON	7181,5	1450	8	2	ERI	R.Eritrea	A3E		E.African speech; S7
VERON	7193,2	1259	4	2			A1A		Persistant dashes; S9
VERON	10129,0	1155	24	2		UiRadar	FMOP	20k	OTHR; 50sps; S6 QSB
VERON	10141,0	1200	21	2		UiPTR	F1B		Ptr
VERON	14280,0	1010	14	2	UKR	UiCAR	NON		carrier
VERON	14280,0	1011	14	2	UKR		A3E		female-encrypted msgs SZRU in Rivne

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Many thanks for your interest!

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